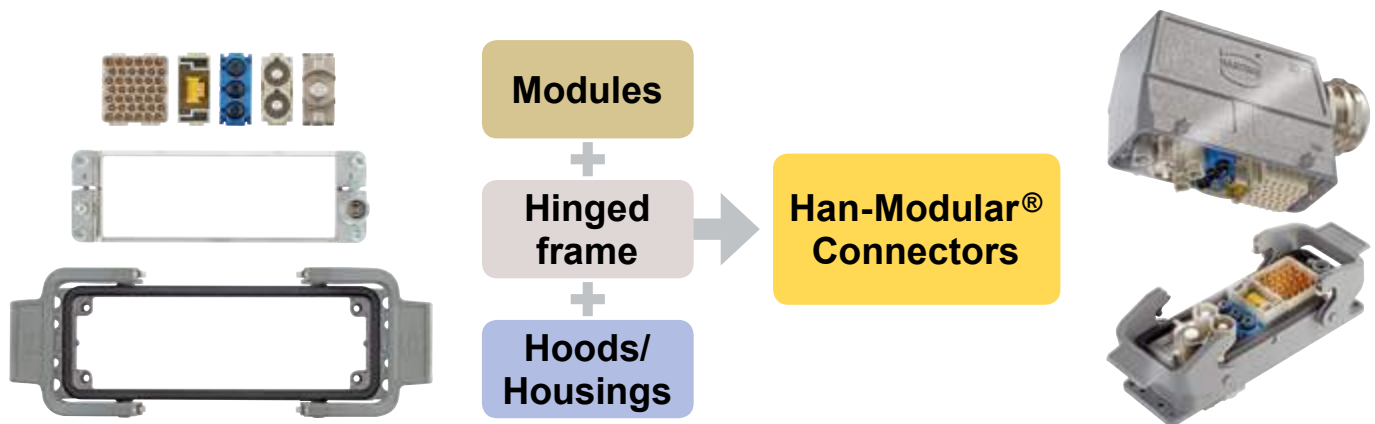


Contents	Page
Summary	06.5
Han-Modular® hinged frames	06.9
Han® PE module	06.14
Han® 200 A module.....	06.16
Han® 200 A PE module	06.20
Han® 100 A module.....	06.22
Han® 100 A Single module.....	06.25
Han® 70 A module.....	06.27
Han® 70 A Hybrid module	06.30
Han® 40 A module.....	06.33
Han® C module	06.36
Han® CC Protected module	06.39
Han® CD module	06.41
Han E® module	06.44
Han E® Screw module	06.47
Han E® Protected module.....	06.49
Han® EE module	06.51
Han® EEE module	06.54
Han® ES module.....	06.57
Han® HV module.....	06.59
Han® HV Single module.....	06.62
Han DD® module	06.64
Han DD® Quad module.....	06.67

Contents	Page
Han® DDD module.....	06.69
Han® High Density module	06.71
Han® Full High Density module	06.73
Han® D-Sub module	06.75
Han® USB module	06.78
Han® FireWire module	06.80
Han® RJ45 module, female	06.81
Han® RJ45 module, male	06.83
RJ45 patch cable.....	06.86
Han® Gigabit module	06.89
Han® Shielded module.....	06.94
Han® Megabit module.....	06.96
Accessories for Gigabit, Shielded and Megabit.....	06.100
Han-Quintax® module	06.102
Han-Quintax® High Density module.....	06.104
Han® D Coax	06.106
Han® E Coax.....	06.108
Han® Multi module	06.110
Han® Pneumatic module.....	06.117
Han® SC module.....	06.119
Han® LC module	06.122
Han-Smart Ethernet Switches	06.124
Han-Smart ID CAN module	06.126

Contents	Page
Han-Smart Surge protection module	06.128
Han-Modular® Compact.....	06.132
Han-Modular® Twin.....	06.136
Han-Modular® ECO	06.139
Han-Modular® docking frames.....	06.144
Sliding frame.....	06.147
Accessories	06.149
Hoods/Housings, metal Han® 3 A.....	31.4
Hoods/Housings, thermoplastic Han® 3 A.....	31.11
Standard hoods/housings Han® 10 ... 32 A.....	31.17
Standard hoods/housings Han® B	31.28
Han® Easy Hood hoods/housings.....	31.81
Han-Drive® hoods/housings.....	31.85
Han® 3 M hoods/housings	31.88
Han® M hoods/housings	31.93
Han® 3 EMC hoods/housings	31.106
Han® EMC hoods/housings	31.110
Han® EMC/B hoods/housings.....	31.117
Han® 3 HPR hoods/housings.....	31.127
Han® HPR hoods/housings.....	31.142
Han-INOX® hoods/housings	31.164

Description of the Han-Modular® system



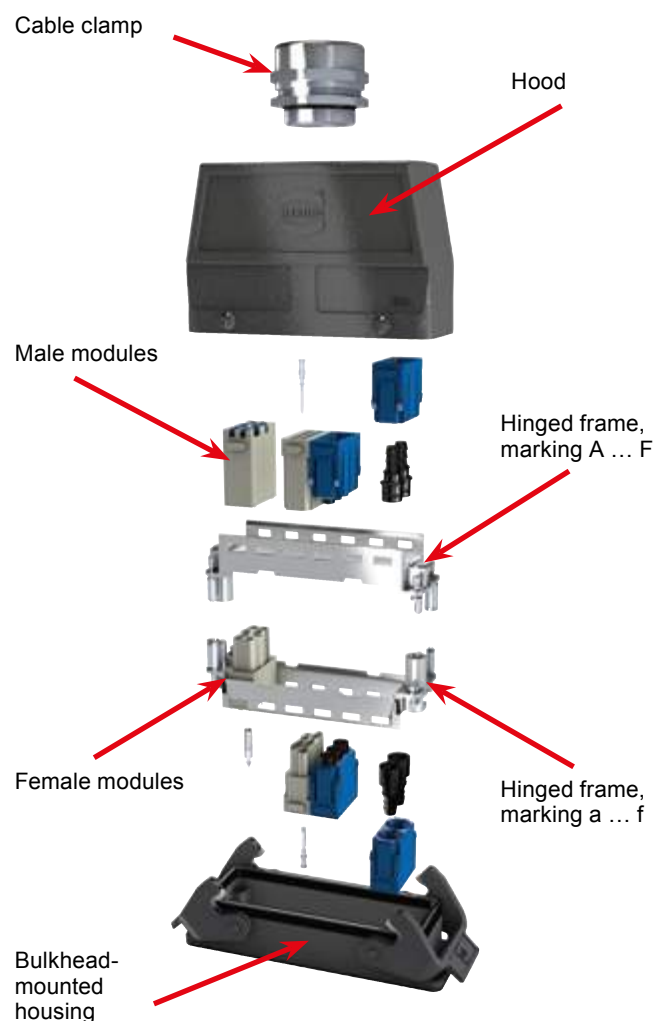
The Han-Modular® series is designed for combining different transmission media in one connector. The multifaceted system of inserts, contacts, frames, hoods and housings as well as accessories fulfils individual customer requirements. The customer can choose between more than 100 different modules. These are suitable for different transmission media and cover various termination techniques.

The patented Han-Modular® hinged frame enables the configuration of all modules in the well-accepted Han® hoods and housings. Further additional solutions are available, e.g. suitable docking frames for drawer units. Individual customer requirements can be realised by means of the Han-Modular® series. Combining various transmission media in one single connector results in lower expenditures in installation time and production downtime. Space savings and cost savings are further benefits. The easy extension possibilities secure the ideal solution for an actual as well as future safe design.

Product features at a glance

- ☐ Combination of different connectors to one unit
- ☐ Shorter installation times
- ☐ Important space saving
- ☐ Save money for components as well as for the whole industrial site
- ☐ Future safe design due to easy extensions

Assembly details



		Han® 200 A Axial Module	Han® 200 A PE Module	Han® 100 A Axial Module	Han® PE Module
100 - 200 A					
	Number of contacts	1*	1 x PE*	1*	1 x PE
	Electrical data	200 A / 1000 V	200 A	100 A / 1000 V	100 A
	Termination type	Axial screw termination	Axial screw termination	Axial screw termination	Axial screw termination
	Cross-section	40 ... 70 mm²	40 ... 70 mm²	16 ... 35 mm²	16 ... 35 mm²
	Male module (M)	09 14 001 2662	09 14 001 2667	09 14 002 2651	09 14 001 2633
	Female module (F)	09 14 001 2762	09 14 001 2767	09 14 002 2751	09 14 001 2733
	Cross-section	25 ... 40 mm²	25 ... 40 mm²	10 ... 25 mm²	10 ... 25 mm²
40 - 70 A					
	Number of contacts	2	1 + (4 x Han E®)	2	3
	Electrical data	70 A / 1000 V	70 A / 1000 V	40 A / 1000 V	40 A / 690 V
	Termination type	Axial screw termination	Axial screw termination	Axial screw termination	Axial screw termination
	Cross-section	14 ... 22 mm²	14 ... 22 mm²	6 ... 10 mm²	6 ... 10 mm²
	Male module (M)	09 14 002 2647	09 14 005 2647	09 14 002 2602	09 14 003 2602
	Female module (F)	09 14 002 2742	09 14 005 2742	09 14 002 2702	09 14 003 2702
	Cross-section	6 ... 16 mm²	6 ... 16 mm²	2.5 ... 8 mm²	2.5 ... 8 mm²
16 A					
	Number of contacts	6	8	5	5
	Electrical data	16 A / 500 V	16 A / 400 V	16 A / 400 V	16 A / 230/400 V
	Termination type	Quick Lock termination	Quick Lock termination	Cage clamp termination	Screw termination
	Cross-section	0.5 ... 2.5 mm²	0.5 ... 2.5 mm²	0.14 ... 2.5 mm²	0.5 ... 2.5 mm²
	Male module (M)	09 14 006 2633	09 14 008 2633	09 14 005 2616	09 14 005 2601
	Female module (F)	09 14 006 2733	09 14 008 2733	09 14 005 2716	09 14 005 2701
	Cross-section	0.5 ... 2.5 mm²	0.5 ... 2.5 mm²	0.14 ... 2.5 mm²	0.5 ... 2.5 mm²
≤ 10 A					
	Number of contacts	12, silver plated	12, gold plated		
	Electrical data	10 A / 250 V	10 A / 250 V		
	Termination type	Quick Lock termination	Quick Lock termination		
	Cross-section	0.25 ... 1.5 mm²	0.25 ... 1.5 mm²		
	Male module (M)	09 14 012 2632	09 14 012 2634		
	Female module (F)	09 14 012 2732	09 14 012 2734		
	Cross-section	0.25 ... 1.5 mm²	0.25 ... 1.5 mm²		
Axial screw termination	Hexagonal drivers	with grip	Bit 1/4"	Adapter 3/8"	Hexagonal torque set
	2 mm (40 A)	09 99 000 0313	09 99 000 0369		09 99 000 0834
	2.5 mm (70 A)		09 99 000 0375		09 99 000 0834
	4 mm (100 A)	09 99 000 0363		09 99 000 0370	09 99 000 0833
	5 mm (200 A)	09 99 000 0364		09 99 000 0371	09 99 000 0833

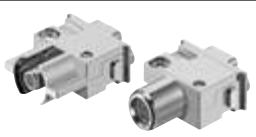
* Double module, requires two places in the frame

Modu-
lar

Summary



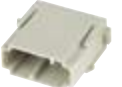
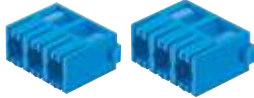
Modu-
lar

Modu- lar	PE	Han® PE module (Including crimp contact for earthing)				
		Number of contacts	1 x PE	1 x PE	1 x PE	
		Cross-section	35 mm²	25 mm²	16 mm²	
		Termination type	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC	
		Male module (M)	09 14 001 3074	09 14 001 3073	09 14 001 3072	
		Female module (F)	09 14 001 3174	09 14 001 3173	09 14 001 3172	
70 - 200 A		Han® 200 A Crimp module		Han® 100 A Crimp module	Han® 100 A Single module	Han® 70 A Crimp module
						
		1*		2*	1	2
		200 A / 1000 V		100 A / 1000 V	100 A / 830 V	70 A / 1000 V
		25 ... 70 mm²		10 ... 35 mm²	10 ... 35 mm²	6 ... 25 mm²
		Crimp termination, Han® HC		Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC
		Male module (M)	09 14 001 3001	09 14 002 3051	09 14 001 3031	09 14 002 3041
		Female module (F)	09 14 001 3101	09 14 002 3151	09 14 001 3131	09 14 002 3141
40 A		Han® 40 A Crimp module		Han® C module	Han® CC module	Han® CD module
						
		2		3	4	3 + 4
		40 A / 1000 V		40 A / 690 V	40 A / 830 V	40 A + 10 A / 830 V
		1.5 ... 10 mm²		1.5 ... 6 mm²	1.5 ... 6 mm²	0.14 ... 6 mm²
		Crimp termination, Han® C		Crimp termination, Han® C	Crimp termination, Han® C	Crimp, Han® C + Han D®
		Male module (M)	09 14 002 3002	09 14 003 3001	09 14 004 3041	09 14 007 3001
		Female module (F)	09 14 002 3102	09 14 003 3101	09 14 004 3141	09 14 007 3101
16 A		Han E® module		Han® EE module	Han® EEE module	Han E® Protected module
						
		6		8	20*	6
		16 A / 500 V		16 A / 400 V	16 A / 500 V	16 A / 830 V
		0.14 ... 4 mm²		0.14 ... 4 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²
		Crimp termination, Han E®		Crimp termination, Han E®	Crimp termination, Han E®	Crimp termination, Han E®
		Male module (M)	09 14 006 3001	09 14 008 3001	09 14 020 3001	09 14 006 3041
		Female module (F)	09 14 006 3101	09 14 008 3101	09 14 020 3101	09 14 006 3141
≤ 10 A		Han DD® module		Han® DDD module	Han DD® Quad module	Han® High Density module
						
		12		17	42*	25
		10 A / 250 V		10 A / 150 V	10 A / 150 V	4 A / 50 V
		0.14 ... 2.5 mm²		0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.08 ... 0.52 mm²
		Crimp termination, Han D®		Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub
		Male module (M)	09 14 012 3002	09 14 017 3001	09 14 042 3001	09 14 025 3001
		Female module (F)	09 14 012 3102	09 14 017 3101	09 14 042 3101	09 14 025 3101
High Voltage		Han® HV module 40 A		Han® HV module 16 A	Han® HV single module	
						
		2*		2*	2	
		40 A / 2900/5000 V		16 A / 2900/5000 V	16 A / 2500 V	
		1.5 ... 10 mm²		0.14 ... 4 mm²	0.14 ... 4 mm²	
		Crimp termination, Han® C		Crimp termination, Han E®	Crimp termination, Han E®	
		Male module (M)	09 14 002 3023	09 14 002 3021	09 14 002 3025	
		Female module (F)	09 14 002 3123	09 14 002 3121	09 14 002 3125	

* Double module, requires two places in the frame

Han® RJ45 module	Han® RJ45 module	for patch cable	for IDC	for patch cable	for IDC and preLink
	- 8 contacts - cat. 6A - 10 Gbit/s				
	Part numbers	Male module (M) 09 14 001 4623	Male module (M) 09 14 001 4623	Female module (F) 09 14 001 4721	Female module (F) 09 14 001 4722
		Adapter for patch cable: 09 14 000 9966	RJ Industrial IDC: 09 45 400 1560		RJ45 female IDC: 09 14 545 1561
		Patch cable cat. 6: 09 47 474 71xx			RJ45 female preLink: 09 14 008 4720
Han-Quintax® Modules		Han-Quintax®	Han® High Density Quintax	Han D® Coax	Han E® Coax
	Quintax modul				
	Number of contacts	2 x 4*	2 x 8*	2 x Coax*	2 x Coax*
	Male module (M)	09 14 002 3001	09 14 002 3001	09 14 002 3001	09 14 002 3001
	Female module (F)	09 14 002 3101	09 14 002 3101	09 14 002 3101	09 14 002 3101
	Insert (Cable Ø ≤ 9.5 mm)				
	Data rate	100 Mbit/s (cat. 5e)	100 Mbit/s (cat. 5e)	≤ 500 Mhz / 75 Ω	≤ 500 Mhz / 50 Ω
	Electrical data	10 A / 50 V	5 A / 50 V	10 A / 50 V	16 A / 50 V
	Cross-section	0.14 ... 2.5 mm²	0.09 ... 0.52 mm²	0.14 ... 2.5 mm²	0.14 ... 4 mm²
	Termination type	Crimp termination, Han D®	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han E®
Han® GigaBit – Han® MegaBit Modules		Han® GigaBit module	Han® MegaBit module with 2 cable entries	Han® MegaBit module with 1 cable entry	Han® Shielded Module
	Adapter Module				
	Male module (M)	09 14 001 3011	09 14 001 3011	09 14 001 3011	09 14 001 3011
	Female module (F)	09 14 001 3111	09 14 001 3111	09 14 001 3111	09 14 001 3111
	Insert (Cable Ø ≤ 14 mm)				
	Number of contacts	8	2 x 4	8	20
	Data rate	10 Gbit/s (cat. 6A)	2 x 100 Mbit/s (cat. 5e)	1 Gbit/s (cat. 5e)	4 A / 32 V
	Electrical data	5 A / 50 V	10 A / 50 V	10 A / 50 V	0.09 ... 0.52 mm²
	Cross-section	0.09 ... 0.52 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.09 ... 0.52 mm²
	Termination type	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub
Serial Bus Modules		Han D-Sub module	Han® USB module	Han® FireWire module	Han® ID CAN module
	Number of contacts	9 + shielding	8	6	7
	Data rate	12 Mbit/s (Profibus)	5 Gbit/s (USB 3.0)	400 Mbit/s (IEEE 1394a)	1 Mbit/s (CAN bus)
	Electrical data	5 A / 50 V	1 A / 50 V	1 A / 50 V	24 V
	Cross-section	0.09 ... 0.52 mm²			0.13 ... 1.5 mm²
	Termination type	Crimp termination, D-Sub	USB patch cable	FireWire patch cable	Cage clamp termination
	Male module (M)	09 14 009 3001	09 14 001 4601	09 14 001 4611	09 80 015 0100
	Female module (F)	09 14 009 3101	09 14 001 4703	09 14 001 4711	09 80 115 0200

* Double module, requires two places in the frame

Coaxial Modules		Han® Multi Module (for D-Sub coaxial contacts)		Han® Multi Module (for DIN 41626 coaxial contacts)	
					
	Number of contacts	4	4	12*	12*
	Male module (M)	09 14 004 4501	09 14 004 4501	09 14 012 4501	09 14 012 4501
	Female module (F)	09 14 004 4513	09 14 004 4513	09 14 012 4512	09 14 012 4512
	Coaxial contacts (≤ 2 GHz)				
	Impedance	75 Ω	50 Ω	75 Ω	50 Ω
	Coaxial cable Termination type	RG179, RG187 Crimp /crimp termination	RG174, RG188, RG316 Crimp /crimp termination	RG179, RG187 Solder /crimp termination	RG174, RG188, RG316 Solder /crimp termination
Male contact	09 69 282 5230	09 69 282 5140	09 14 000 6221	09 14 000 6211	
Female contact	09 69 182 5230	09 69 182 5140	09 14 000 6121	09 14 000 6111	
Optical Modules		Han® LC module	Han® SC module	Han® Multi module	Han® Multi module
					
	Number of contacts	6	4	4	12*
	Male module (M)	09 14 006 4701	09 14 004 4701	09 14 004 4501	09 14 012 4501
	Female module (F)	09 14 006 4711	09 14 004 4711	09 14 004 4512	09 14 012 4512
	Contacts				
	1 mm POF		20 10 001 5211	Male: 20 10 001 4211 Female: 20 10 001 4221	Male: 20 10 001 4211 Female: 20 10 001 4221
	1 mm POF Fast assembly termination		20 10 001 5217		
	SI-Fibre 200 / 230 µm Multi-Mode		20 10 230 5211	Male: 20 10 230 4211 Female: 20 10 230 4221	Male: 20 10 230 4211 Female: 20 10 230 4221
	GI-Fibre 50-62,5 / 125 µm Multi-Mode	20 10 125 8211	20 10 125 5211	Male: 20 10 125 4212 Female: 20 10 125 4222	Male: 20 10 125 4212 Female: 20 10 125 4222
GI-Fibre 9 / 125 µm Single-Mode	20 10 125 8220	20 10 125 5220			
Further Modules		Han-Eco® Monoblock for Han-Eco® hoods/housings only	Han-Eco® PE module for Han-Eco® hoods/housings only	Han® Dummy module to fill-up empty module places	Han® Pneumatic module metal
	Field of application				
					
	Number of contacts	10, 14, 20, 28 + PE	1 x PE		3
	Electrical data	16 A / 500 V			
Cross-section	0.5 ... 2.5 mm²	1.5 ... 16 mm²		3, 4, 6 mm	
Termination type	Screw termination	Screw termination			
Male module (M)	19 41 0xx 2601	19 41 001 2600	09 14 000 9950	09 14 003 3501	
Female module (F)	19 41 0xx 2701	19 41 001 2700		09 14 003 3501	
Contacts for pneumatic modules		Pneumatic contacts (max. 10 bar)			Adapter
	For tube outer diameter				
	Tube-Ø	6 mm OD	4 mm OD	3 mm OD	for Han® C contacts
	Male contact	09 14 000 6356	09 14 000 6354	09 14 000 6353	Male: 09 14 000 6391
	Female without shut-off	09 14 000 6456	09 14 000 6454	09 14 000 6453	Female: 09 14 000 6491
	Female with shut-off	09 14 000 6466	09 14 000 6464	09 14 000 6463	
	For tube inner diameter				
	Tube-Ø	6 mm ID	4 mm ID	3 mm ID	
	Male contact	09 14 000 6306	09 14 000 6304	09 14 000 6303	
	Female without shut-off	09 14 000 6406	09 14 000 6404	09 14 000 6403	
	Female with shut-off	09 14 000 6416	09 14 000 6414	09 14 000 6413	

* Double module, requires two places in the frame

Features

- Suitable for more than 100 different modules
- Quick and easy assembly supported by an audible “Click”
- Very robust mechanical characteristics
- Modules can be assembled/removed without tools
- Two leading PE contacts
- Easy handling

Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Mating cycles with other HMC components	≥10000
Material (frames)	Zinc die-cast, Stainless steel
RoHS	compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

Both different markings must be used for one connector!

Conductor cross-section PE (power side) 4 ... 10 mm²

Conductor cross-section 10 mm² only with ferrule crimping tool
09 99 000 0374

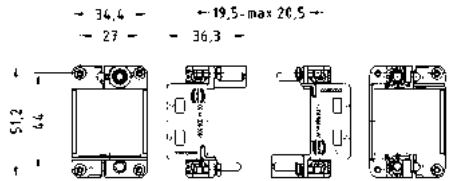
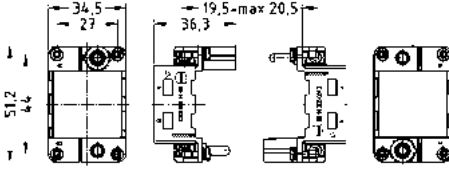
Conductor cross-section PE (signal side) 1 ... 2.5 mm²

Locking element 09 14 000 9960 see accessories in chapter 06



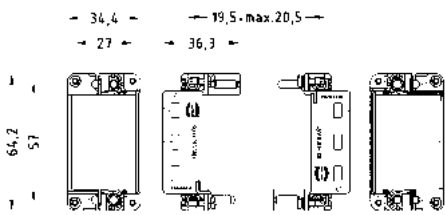
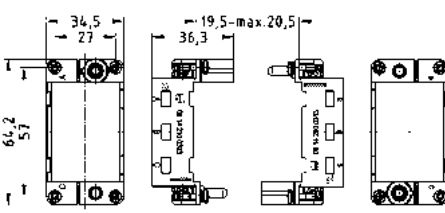
Modular



Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Hinged frame, for 2 modules, A ... B, Mating cycles ≥500 	09 14 006 0361	
Han-Modular®, Hinged frame, for 2 modules, a ... b, Mating cycles ≥500 	09 14 006 0371	
Han-Modular®, Hinged frame, HMC version, for 2 modules, A ... B, Mating cycles ≥10000 	09 14 206 0303	
Han-Modular®, Hinged frame, HMC version, for 2 modules, a ... b, Mating cycles ≥10000 	09 14 206 0313	



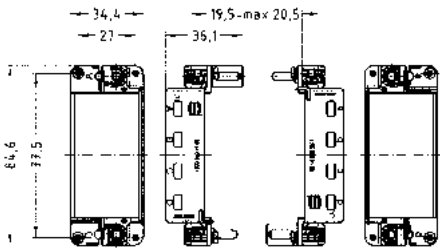
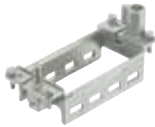
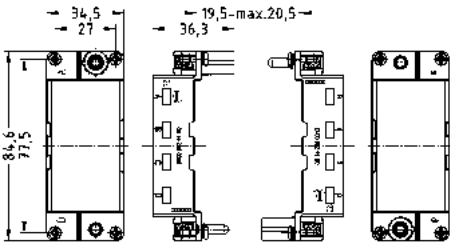
Modu-
lar

Identification	Part number	Drawing (dimensions in mm)
Han-Modular® , Hinged frame, for 3 modules, A ... C, Mating cycles ≥500 	09 14 010 0361	
Han-Modular® , Hinged frame, for 3 modules, a ... c, Mating cycles ≥500 	09 14 010 0371	
Han-Modular® , Hinged frame, HMC version, for 3 modules, A ... C, Mating cycles ≥10000 	09 14 210 0303	
Han-Modular® , Hinged frame, HMC version, for 3 modules, a ... c, Mating cycles ≥10000 	09 14 210 0313	



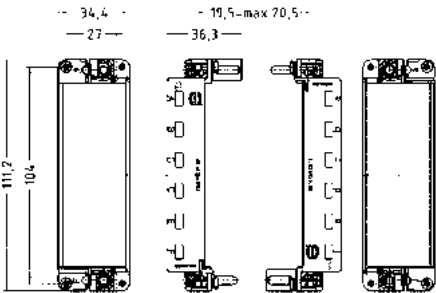
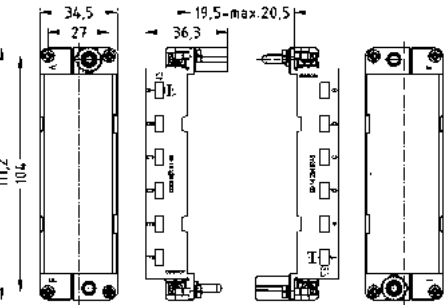
Modular



Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Hinged frame, for 4 modules, A ... D, Mating cycles ≥500 	09 14 016 0361	
Han-Modular®, Hinged frame, for 4 modules, a ... d, Mating cycles ≥500 	09 14 016 0371	
Han-Modular®, Hinged frame, HMC version, for 4 modules, A ... D, Mating cycles ≥10000 	09 14 216 0303	
Han-Modular®, Hinged frame, HMC version, for 4 modules, a ... d, Mating cycles ≥10000 	09 14 216 0313	



Modu-
lar

Identification	Part number	Drawing (dimensions in mm)
Han-Modular® , Hinged frame, for 6 modules, A ... F, Mating cycles ≥500 	09 14 024 0361	
Han-Modular® , Hinged frame, for 6 modules, a ... f, Mating cycles ≥500 	09 14 024 0371	
Han-Modular® , Hinged frame, HMC version, for 6 modules, A ... F, Mating cycles ≥10000 	09 14 224 0303	
Han-Modular® , Hinged frame, HMC version, for 6 modules, a ... f, Mating cycles ≥10000 	09 14 224 0313	

Number of contacts

1

Modu-
lar

Features

- PE module to connect large cable diameters within the Han-Modular® hinged frames
- Electrically conductive connection of the PE contact to the hinged frames and the hoods and housings acc. to EN 61984
- Pre-leading and robust 100 A PE contact
- Suitable for the connection of standard power cables even with large cross-sections (no special cables with reduced PE necessary)
- Crimp- and axial module are compatible modules

Technical characteristics

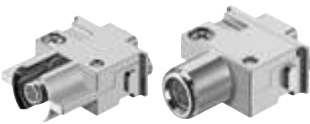
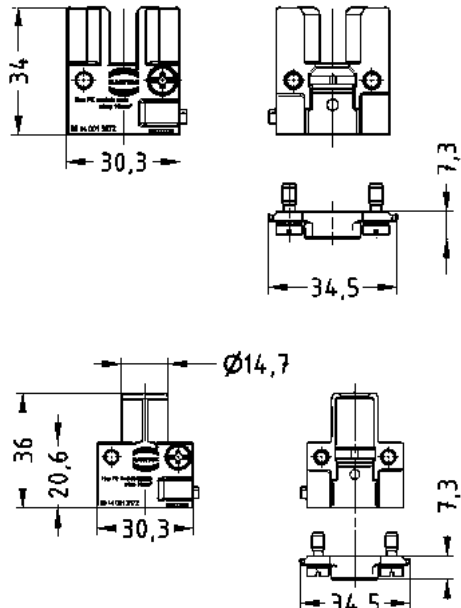
Number of contacts	1
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Zinc die-cast, nickel-plated
Material (contacts)	Copper alloy
RoHS	compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Short-time withstand current: 1920 A for 1 second (acc. to IEC 60947-7-2)

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)										
		Male	Female											
Han-Modular®, Han® PE module, Crimp termination, Pack contents: 2 PE module halves, 1 contact pressure plate, 1 crimp contact Contact surface: Silver plated 	16 25 35	09 14 001 3072 09 14 001 3073 09 14 001 3074	09 14 001 3172 09 14 001 3173 09 14 001 3174	 Stripping length <table border="1"> <tr> <td>mm²</td><td>10</td><td>16</td><td>25</td><td>35</td></tr> <tr> <td>mm</td><td>19</td><td>19</td><td>19</td><td>16</td></tr> </table>	mm²	10	16	25	35	mm	19	19	19	16
mm²	10	16	25	35										
mm	19	19	19	16										

Number of contacts

1

Modu-
lar

Features

- PE module to connect large cable diameters within the Han-Modular® hinged frames
- Electrically conductive connection of the PE contact to the hinged frames and the hoods and housings acc. to EN 61984
- Pre-leading and robust 100 A PE contact
- Suitable for the connection of standard power cables even with large cross-sections (no special cables with reduced PE necessary)
- Crimp- and axial module are compatible modules

Technical characteristics

Number of contacts	1
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Zinc die-cast, nickel-plated
Material (contacts)	Copper alloy
RoHS	compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight, 6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight

Specifications and approvals

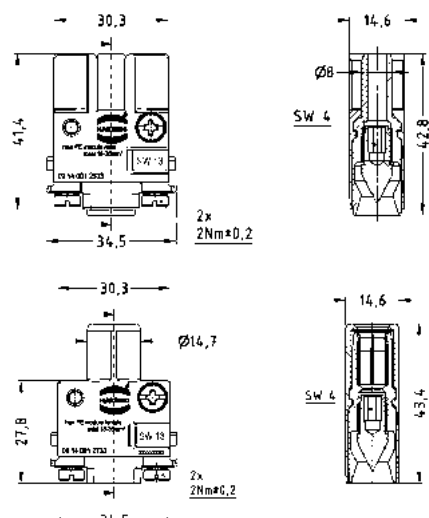
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Short-time withstand current: 1920 A for 1 second (acc. to IEC 60947-7-2)

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)										
		Male	Female											
Han-Modular®, Han® PE module, Axial screw termination, Pack contents: PE module with pre-assembled axial screw contact Contact surface: Silver plated	10 ... 25 16 ... 35 22 ... 38	09 14 001 2632 09 14 001 2633 09 14 001 2634	09 14 001 2732 09 14 001 2733 09 14 001 2734	 Stripping length 13 mm Tightening torque <table border="1"> <tr> <td>mm²</td><td>10</td><td>16</td><td>25</td><td>35</td></tr> <tr> <td>Nm</td><td>6</td><td>6</td><td>7</td><td>8</td></tr> </table>	mm²	10	16	25	35	Nm	6	6	7	8
mm²	10	16	25	35										
Nm	6	6	7	8										

Features

- Contacts can be unlocked from the mating side
- Power module for big cross-sections up to 70 mm²
- Suitable as a 3 + PE connector in a Han® 32 B housing

Technical characteristics

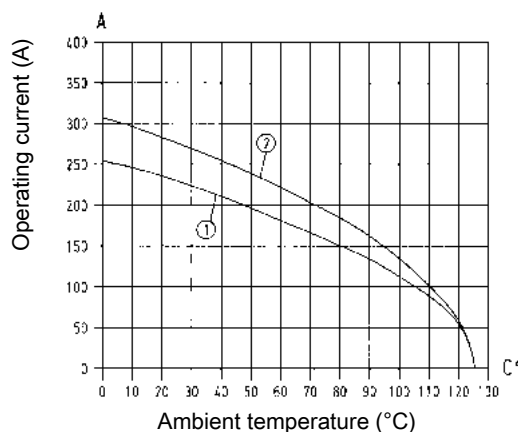
Number of contacts	1
Electrical data acc. to IEC 61984	200 A 1.000 V 8 kV 3
Rated current	200 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega, \leq 0.2 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight, 6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 3 modules Conductor cross-section 50 mm²

② 24 B hoods/housings with 3 modules Conductor cross-section 70 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Contact resistance crimp contact: $\leq 0.3 \text{ m}\Omega$

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Contact resistance axial screw contact: $\leq 0.2 \text{ m}\Omega$

Crimping tools see chapter 90

Remarks on the crimp technique

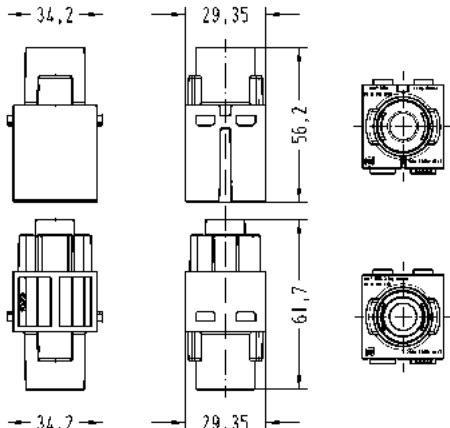
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

1

200 A 1.000 V 8 kV 3

Modu-
lar

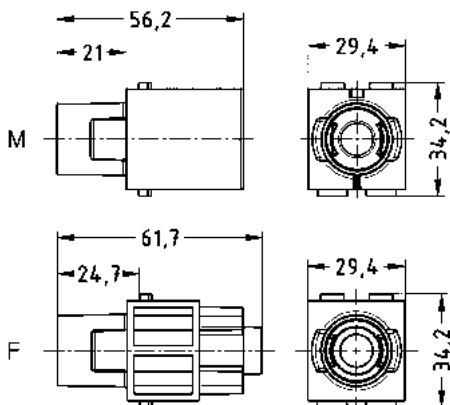
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular® , Han® 200 A module, Crimp termination  Please order crimp contacts separately.	25 ... 70	09 14 001 3001	09 14 001 3101	 Removal tool 09 99 000 0820 See chapter 90															
TC 200 , Crimp contact, Contact surface: Silver plated 	25 35 50 70	09 11 000 6120 09 11 000 6121 09 11 000 6122 09 11 000 6123	09 11 000 6220 09 11 000 6221 09 11 000 6222 09 11 000 6223	<table><tr><th>電線サイズ</th><th>Ø</th><th>ストリップ長さ A</th></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>20 mm</td></tr><tr><td>50 mm²</td><td>10</td><td>22.5 mm</td></tr><tr><td>70 mm²</td><td>11.5</td><td>22.5 mm</td></tr></table> より線用 (IEC 60 228 Class 5準拠)	電線サイズ	Ø	ストリップ長さ A	25 mm²	7	19 mm	35 mm²	8.2	20 mm	50 mm²	10	22.5 mm	70 mm²	11.5	22.5 mm
電線サイズ	Ø	ストリップ長さ A																	
25 mm²	7	19 mm																	
35 mm²	8.2	20 mm																	
50 mm²	10	22.5 mm																	
70 mm²	11.5	22.5 mm																	
TC 200 , Screw contact, Contact surface: Silver plated	70	09 11 000 6124	09 11 000 6224																

Number of contacts

1

200 A 1.000 V 8 kV 3

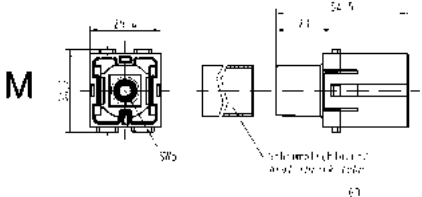
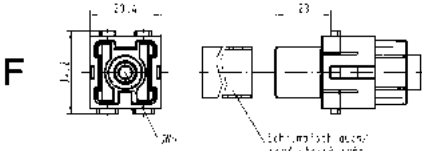
Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular® , Han® 200 A module, With protective insert, Crimp termination  Please order crimp contacts separately.	25 ... 70	09 14 001 3002	09 14 001 3102																			
TC 200 , Crimp contact, Contact surface: Silver plated 	25 35 50 70	09 11 000 7120 09 11 000 7121 09 11 000 7122 09 11 000 7123	09 11 000 6220 09 11 000 6221 09 11 000 6222 09 11 000 6223	<table><tr><th>電線サイズ</th><th>Ø</th><th>ストリップ長さ A</th></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>20 mm</td></tr><tr><td>50 mm²</td><td>10</td><td>22.5 mm</td></tr><tr><td>70 mm²</td><td>11.5</td><td>22.5 mm</td></tr><tr><td colspan="3">より線用 (IEC 60 228 Class 5準拠)</td></tr></table>	電線サイズ	Ø	ストリップ長さ A	25 mm²	7	19 mm	35 mm²	8.2	20 mm	50 mm²	10	22.5 mm	70 mm²	11.5	22.5 mm	より線用 (IEC 60 228 Class 5準拠)		
電線サイズ	Ø	ストリップ長さ A																				
25 mm²	7	19 mm																				
35 mm²	8.2	20 mm																				
50 mm²	10	22.5 mm																				
70 mm²	11.5	22.5 mm																				
より線用 (IEC 60 228 Class 5準拠)																						

Number of contacts

1
200 A 1.000 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® 200 A module, Axial screw termination, Contact surface: Silver plated 	25 ... 40 40 ... 70	09 14 001 2663 09 14 001 2662	09 14 001 2763 09 14 001 2762	M  F  Stripping length 16 mm Tightening torque 8 Nm @ 25 ... 40 mm², 9 Nm @ 40 mm², 10 Nm @ 70 mm²

Technical characteristics

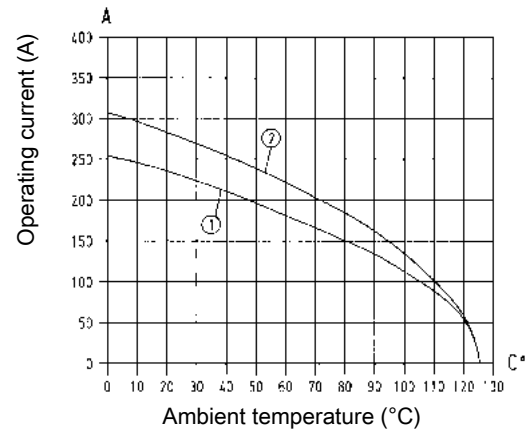
Modu- lar	Number of contacts	1
	Contact resistance	≤0.2 mΩ
	Limiting temperature	-40 ... +125 °C
	Mating cycles	≥500
	Material (insert)	Polycarbonate
	Colour (insert)	RAL 7032 (pebble grey)
	Material (contacts)	Copper alloy
	Material flammability class acc. to UL 94	V-0
	RoHS	compliant with exemption
	RoHS exemptions	6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight, 6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 3 modules Conductor cross-section 50 mm²

② 24 B hoods/housings with 3 modules Conductor cross-section 70 mm²

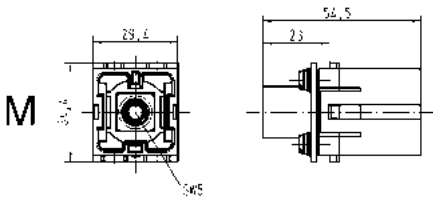
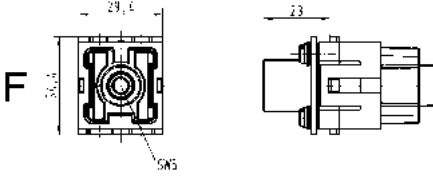
Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390

Number of contacts

1

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® 200 A PE module, Axial screw termination, Contact surface: Silver plated 	25 ... 40 40 ... 70	09 14 001 2668 09 14 001 2667	09 14 001 2768 09 14 001 2767	M  F  Hex key with grip 09 99 000 0364 Adapter 3/8" 09 99 000 0371 See chapter 90 Stripping length 16 mm Tightening torque 8 Nm @ 25 ... 40 mm², 9 Nm @ 40 mm², 10 Nm @ 70 mm²

Features

- Crimp- and axial module are compatible modules
- Contacts can be unlocked from the mating side

Technical characteristics

Number of contacts	2
Electrical data acc. to IEC 61984	100 A 1.000 V 8 kV 3
Rated current	100 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight, 6c: Copper alloy containing up to 4 % lead by weight

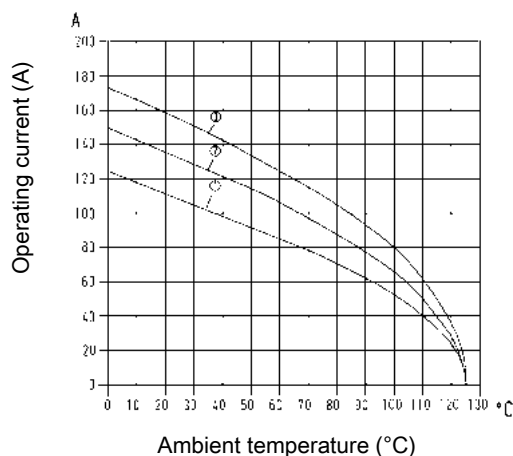
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

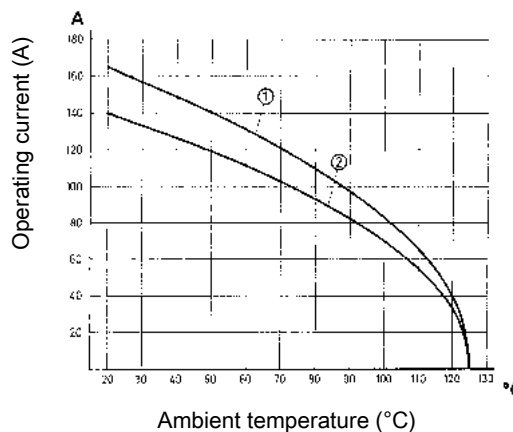
Measuring and testing techniques acc. to IEC 60512-5-2

Crimp termination



- ① 24 B hoods/housings with 3 modules Conductor cross-section 16 mm²
- ② 24 B hoods/housings with 3 modules Conductor cross-section 25 mm²
- ③ 24 B hoods/housings with 3 modules Conductor cross-section 35 mm²

Axial screw termination



- ① 24 B hoods/housings with 3 modules Conductor cross-section 35 mm²
- ② 24 B hoods/housings with 3 modules Conductor cross-section 25 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Crimping tools see chapter 90

Details

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

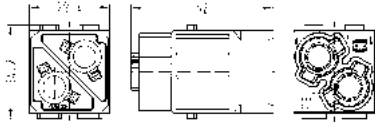
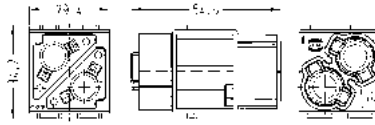
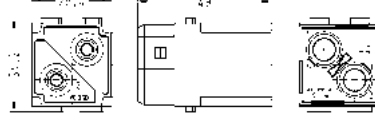
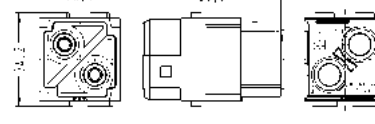
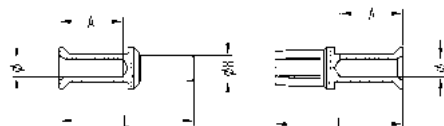
Modu-
lar

Number of contacts

2

100 A 1.000 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular® , Han® 100 A module, Crimp termination  Please order crimp contacts separately.	10 ... 35	09 14 002 3051	09 14 002 3151	M  F 															
Han-Modular® , Han® 100 A module, Axial screw termination, Contact surface: Silver plated 	10 ... 25 16 ... 35 38	09 14 002 2653 09 14 002 2651 09 14 002 2650	09 14 002 2753 09 14 002 2751 09 14 002 2750	M  F  Stripping length 12 ... 14 mm Tightening torque 6 Nm @ 10 ... 16 mm², 7 Nm @ 25 mm², 8 Nm @ 35 ... 38 mm²															
TC 100 , Crimp contact, Contact surface: Silver plated 	10 16 25 35	09 11 000 6114 09 11 000 6116 09 11 000 6125 09 11 000 6135	09 11 000 6214 09 11 000 6216 09 11 000 6225 09 11 000 6235	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length A</th></tr><tr><td>10 mm²</td><td>4.3</td><td>19 mm</td></tr><tr><td>16 mm²</td><td>5.5</td><td>19 mm</td></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>16 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Wire gauge	Ø	Stripping length A	10 mm²	4.3	19 mm	16 mm²	5.5	19 mm	25 mm²	7	19 mm	35 mm²	8.2	16 mm
Wire gauge	Ø	Stripping length A																	
10 mm²	4.3	19 mm																	
16 mm²	5.5	19 mm																	
25 mm²	7	19 mm																	
35 mm²	8.2	16 mm																	

Features

- Crimp or axial screw termination available
- Unlock of contacts with a screw driver from mating side
- Separate axial screw contacts can be terminated without any special tools directly to the wire

Technical characteristics

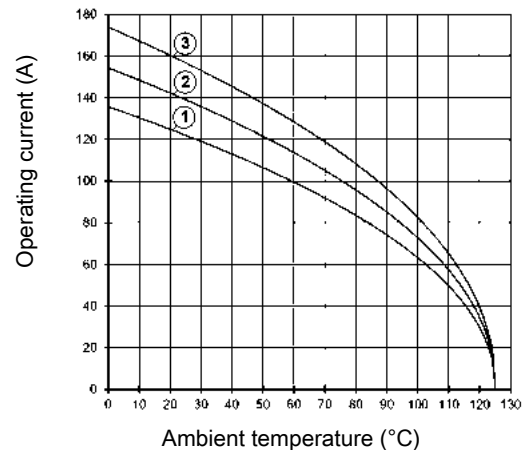
Number of contacts	1
Electrical data acc. to IEC 61984	100 A 830 V 8 kV 3
Rated current	100 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight, 6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① Conductor cross-section 16 mm²
- ② Conductor cross-section 25 mm²
- ③ Conductor cross-section 35 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL

Details

Hex key (A/F 4) see chapter 90

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Crimping tools see chapter 90

Remarks on the crimp technique

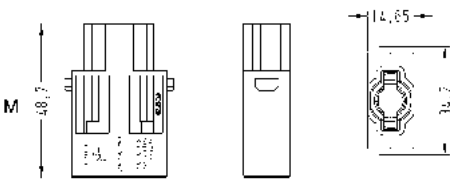
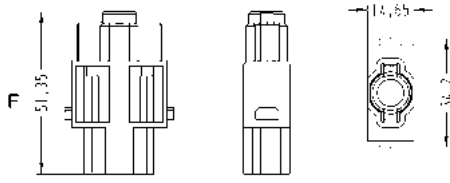
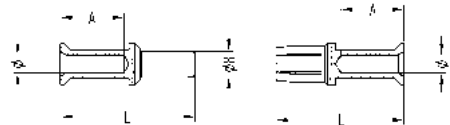
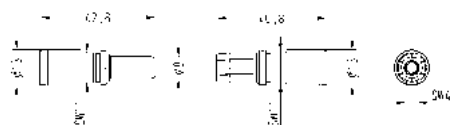
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

1

100 A 830 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular® , Han® 100 A module, Single module  Please order contacts separately.	10 ... 35	09 14 001 3031	09 14 001 3131	 															
TC 100 , Crimp contact, Contact surface: Silver plated 	10 16 25 35	09 11 000 6114 09 11 000 6116 09 11 000 6125 09 11 000 6135	09 11 000 6214 09 11 000 6216 09 11 000 6225 09 11 000 6235	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length A</th></tr><tr><td>10 mm²</td><td>4.3</td><td>19 mm</td></tr><tr><td>16 mm²</td><td>5.5</td><td>19 mm</td></tr><tr><td>25 mm²</td><td>7</td><td>19 mm</td></tr><tr><td>35 mm²</td><td>8.2</td><td>16 mm</td></tr></table> for stranded wire according to IEC 60 228 Class 5	Wire gauge	Ø	Stripping length A	10 mm²	4.3	19 mm	16 mm²	5.5	19 mm	25 mm²	7	19 mm	35 mm²	8.2	16 mm
Wire gauge	Ø	Stripping length A																	
10 mm²	4.3	19 mm																	
16 mm²	5.5	19 mm																	
25 mm²	7	19 mm																	
35 mm²	8.2	16 mm																	
TC 100 , Axial screw contact, Contact surface: Silver plated 	10 ... 25 16 ... 35	09 11 000 6112 09 11 000 6113	09 11 000 6212 09 11 000 6213	 Stripping length 13 mm Tightening torque <table><tr><th>mm²</th><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><th>Nm</th><td>6</td><td>6</td><td>7</td><td>8</td></tr></table>	mm²	10	16	25	35	Nm	6	6	7	8					
mm²	10	16	25	35															
Nm	6	6	7	8															

Features

- for power circuits
- Male inserts with protection collar
- Polarisation of module

Technical characteristics

Number of contacts	2
Electrical data acc. to IEC 61984	70 A 1.000 V 8 kV 3
Rated current	70 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight, 6c: Copper alloy containing up to 4 % lead by weight

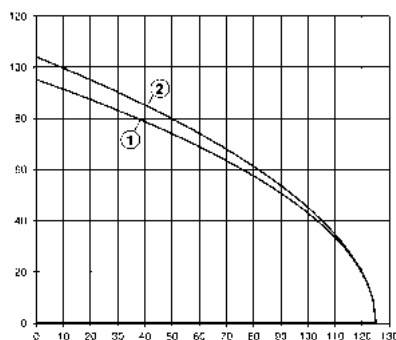
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

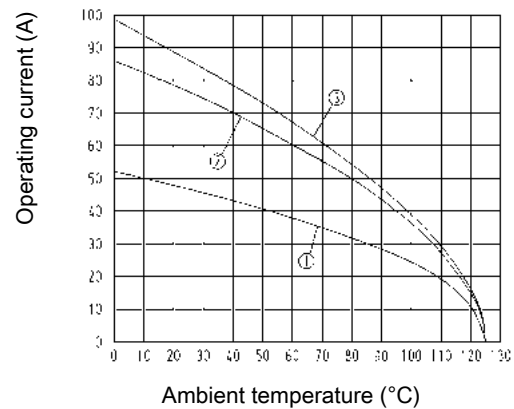
Crimp termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 16 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 25 mm²

Derating

Axial screw termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 16 mm²
 ③ 24 B hoods/housings with 6 modules Conductor cross-section 22 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Hex key (A/F 2.5) see chapter 90

For more technical details (i.e. number of crimping operations or crimping position) see eCatalogue

Crimping tools see chapter 90

Remarks on the crimp technique

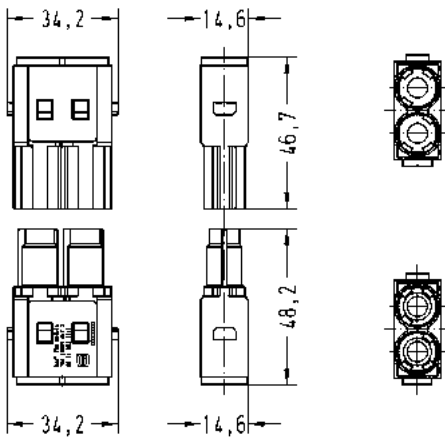
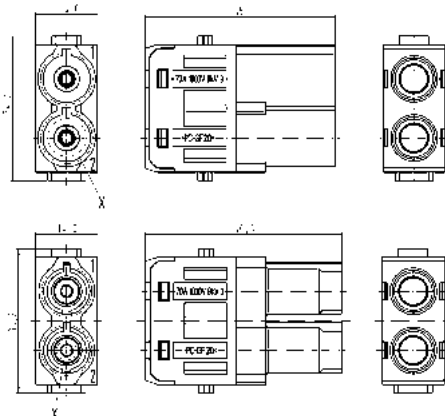
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

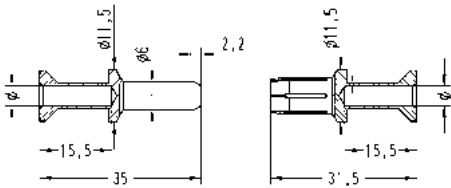
Number of contacts

2

70 A 1.000 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)		
		Male	Female			
Han-Modular®, Han® 70 A module, Crimp termination  Please order crimp contacts separately.	10 ... 25	09 14 002 3041	09 14 002 3141			
Han-Modular®, Han® 70 A module, Axial screw termination, Contact surface: Silver plated  Finger safe Han-Modular®, Han® 70 A module, Axial screw termination, Contact surface: Silver plated 	6 ... 16 14 ... 22 6 ... 16 14 ... 22	09 14 002 2641 09 14 002 2642 09 14 002 2646 09 14 002 2647	09 14 002 2741 09 14 002 2742	 6 ... 16 mm²: Stripping length 11 ... 12 mm 14 ... 22 mm²: Stripping length 12,5 ... 13,5 mm Tightening torque 2 Nm @ 6 mm², 3 Nm @ 10 mm², 4 Nm @ 14 mm², 4 Nm @ 16 mm², 4 Nm @ 22 mm²		

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
TC 70 , Crimp contact, Contact surface: Silver plated	10	09 11 000 6131	09 11 000 6231	
	16	09 11 000 6132	09 11 000 6232	
	25	09 11 000 6133	09 11 000 6233	



電線サイズ	Ø	ストリップ長さ A
10 mm ²	4.3	15.5 mm
16 mm ²	5.5	15.5 mm
25 mm ²	7	15.5 mm
より線用 (IEC 60 228 Class 5準拠)		

Modu-
lar

Features

- Axial screw termination
- for power circuits
- Male inserts with protection collar
- Polarisation of module

Technical characteristics

Number of contacts	1
Additional contacts	+ 4 additional signal contacts
Electrical data acc. to IEC 61984	70 A 1.000 V 8 kV 3
Rated current	70 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Electrical data, signal	16 A 400 V 6 kV 3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.5 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight, 6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

Hex key (A/F 2.5) see chapter 90

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Contact resistance axial screw contact: $\leq 0.5 \text{ m}\Omega$

Contact resistance Han E® crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter 90

Remarks on the crimp technique

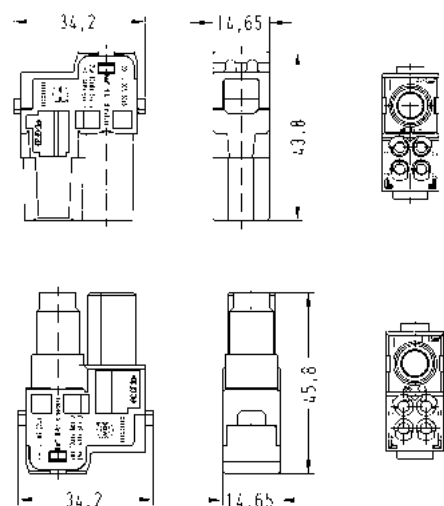
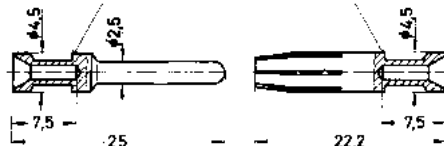
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

1

70 A 1.000 V 8 kV 3
+ 4 additional signal contacts
16 A 400 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular® , Han® 70 A Hybrid module, Axial screw termination / crimp termination  Please order signal contacts separately.	6 ... 16 14 ... 22	09 14 005 2646 09 14 005 2647	09 14 005 2741 09 14 005 2742	 6 ... 16 mm²: Stripping length 11 ... 12 mm 14 ... 22 mm²: Stripping length 12,5 ... 13.5 mm Tightening torque 2 Nm @ 6 mm², 3 Nm @ 10 mm², 4 Nm @ 14 mm², 4 Nm @ 16 mm², 4 Nm @ 22 mm²																		
Han E® , Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove
Conductor cross-section	Identification																					
0.14-0.37 mm²	AWG 26-22 no groove																					
0.5 mm²	AWG 20 no groove																					
0.75 mm²	AWG 18 1 groove*																					
1 mm²	AWG 18 1 groove																					
1.5 mm²	AWG 16 2 grooves																					
2.5 mm²	AWG 14 3 grooves																					
3 mm²	AWG 12 wide groove																					
4 mm²	AWG 12 no groove																					

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number	
		Male	Female
Han E®, Crimp contact, Contact surface: Gold plated	0,14 ... 0,37	09 33 000 6117	09 33 000 6217
	0,5	09 33 000 6122	09 33 000 6222
	0,75	09 33 000 6115	09 33 000 6215
	1	09 33 000 6118	09 33 000 6218
	1,5	09 33 000 6116	09 33 000 6216
	2,5	09 33 000 6123	09 33 000 6223
	4	09 33 000 6119	09 33 000 6221



Conductor cross-section	Identification
0.14-0.37 mm²	AWG 26-22 no groove
0.5 mm²	AWG 20 no groove
0.75 mm²	AWG 18 1 groove*
1 mm²	AWG 18 1 groove
1.5 mm²	AWG 16 2 grooves
2.5 mm²	AWG 14 3 grooves
3 mm²	AWG 12 wide groove
4 mm²	AWG 12 no groove

* on the back crimp collar

Stripping length 7.5 mm

Features

- Crimp or axial screw termination available
- No special tools required for axial-screw termination

Technical characteristics

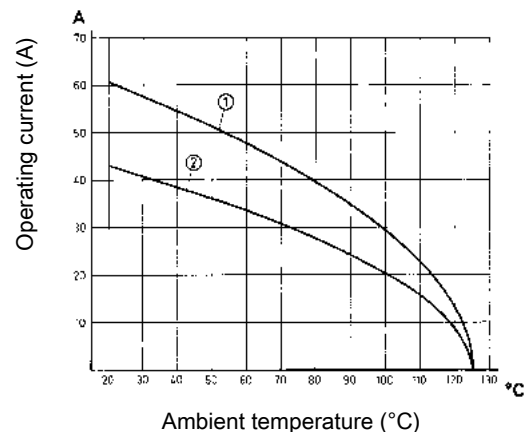
Number of contacts	2
Electrical data acc. to IEC 61984	40 A 1.000 V 8 kV 3
Rated current	40 A
Rated voltage	1000 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 6 modules Conductor cross-section 10 mm²

② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL
CSA-C22.2 No. 182.3 ECBT8.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390

Details

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Contact resistance axial screw contact: $\leq 0.3 \text{ m}\Omega$

Hex key (A/F 2) see chapter 90

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Crimping tools see chapter 90

Remarks on the crimp technique

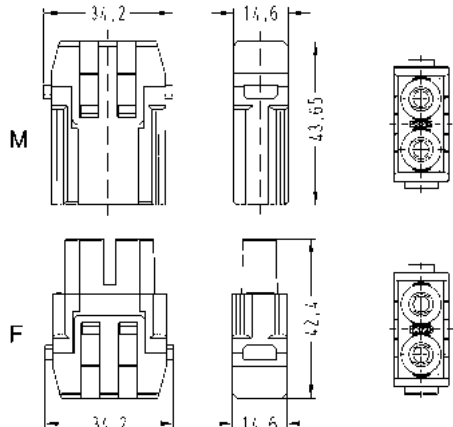
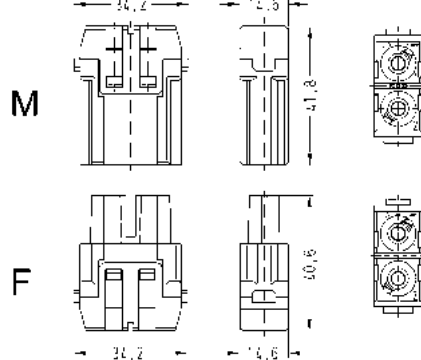
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

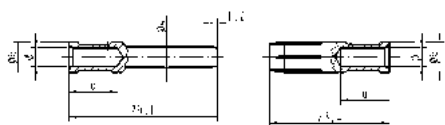
Number of contacts

2

40 A 1.000 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																				
		Male	Female																					
Han-Modular®, Han® 40 A module, Crimp termination  Please order crimp contacts separately.	1,5 ... 10	09 14 002 3002	09 14 002 3102	 Contact arrangement (view from termination side)																				
Han-Modular®, Han® 40 A module, Axial screw termination, Contact surface: Silver plated 	2,5 ... 8 6 ... 10	09 14 002 2601 09 14 002 2602	09 14 002 2701 09 14 002 2702	 Contact arrangement (view from termination side) Stripping length <table border="1"> <tr> <td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr> <tr> <td>mm</td><td>5⁺¹</td><td>5⁺¹</td><td>8⁺¹</td><td>11⁺¹</td></tr> </table> Tightening torque <table border="1"> <tr> <td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr> <tr> <td>Nm</td><td>1,5</td><td>1,5</td><td>2</td><td>2</td></tr> </table>	mm²	2,5	4	6	10	mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹	mm²	2,5	4	6	10	Nm	1,5	1,5	2	2
mm²	2,5	4	6	10																				
mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹																				
mm²	2,5	4	6	10																				
Nm	1,5	1,5	2	2																				

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han® C , Crimp contact, Contact surface: Silver plated	1,5	09 32 000 6104	09 32 000 6204																			
	2,5	09 32 000 6105	09 32 000 6205																			
	4	09 32 000 6107	09 32 000 6207																			
	6	09 32 000 6108	09 32 000 6208																			
	10	09 32 000 6109	09 32 000 6209																			
																						
				<table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm
Conductor cross-section	Ø	Stripping length																				
1.5 mm² AWG 16	1.75 mm	9.5 mm																				
2.5 mm² AWG 14	2.25 mm	9.5 mm																				
4 mm² AWG 12	2.85 mm	9.5 mm																				
6 mm² AWG 10	3.5 mm	9.5 mm																				
10 mm² AWG 8	4.3 mm	12 mm																				

Features

- Standard module for power up to 40 A
- No special tools required for axial-screw termination

Technical characteristics

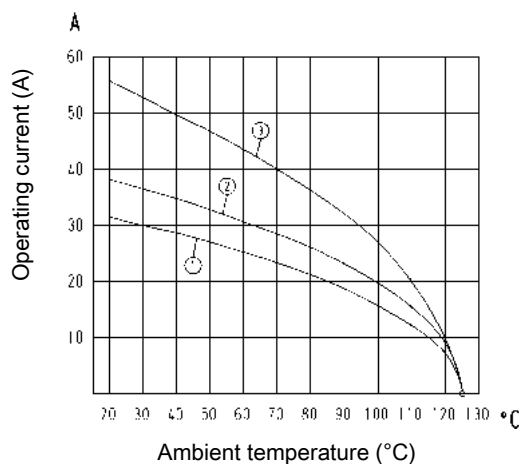
Number of contacts	3
Electrical data acc. to IEC 61984	40 A 690 V 8 kV 3
Rated current	40 A
Rated voltage	690 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated current acc. to UL	40 A
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 0.3 \text{ m}\Omega, \leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²
- ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²
- ③ 24 B hoods/housings with 6 modules Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390

Details

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Contact resistance axial screw contact: $\leq 0.3 \text{ m}\Omega$

Hex key (A/F 2) see chapter 90

Remarks on the axial screw technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Crimping tools see chapter 90

Remarks on the crimp technique

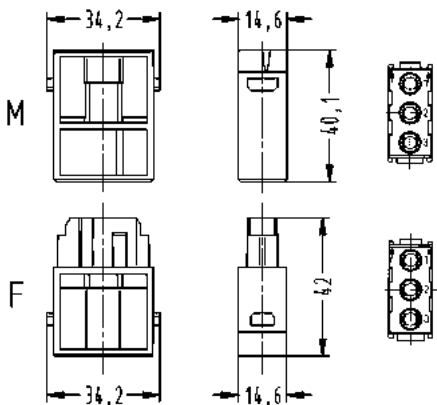
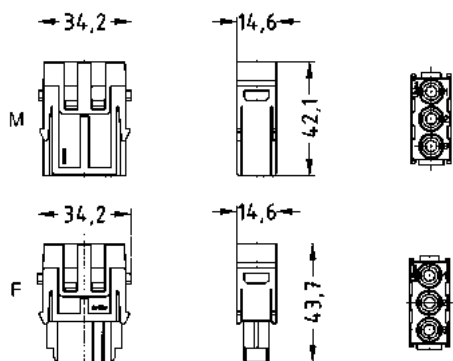
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

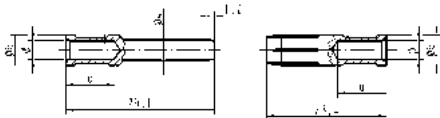
3

40 A 690 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																				
		Male	Female																					
Han-Modular®, Han® C module, Crimp termination  Please order crimp contacts separately.	1,5 ... 6	09 14 003 3001	09 14 003 3101	 Contact arrangement (view from termination side)																				
Han-Modular®, Han® C module, Axial screw termination, Contact surface: Silver plated 	2,5 ... 8 6 ... 10	09 14 003 2601 09 14 003 2602	09 14 003 2701 09 14 003 2702	 Contact arrangement (view from termination side) Stripping length <table border="1"> <tr> <td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr> <tr> <td>mm</td><td>5⁺¹</td><td>5⁺¹</td><td>8⁺¹</td><td>11⁺¹</td></tr> </table> Tightening torque <table border="1"> <tr> <td>mm²</td><td>2,5</td><td>4</td><td>6</td><td>10</td></tr> <tr> <td>Nm</td><td>1,5</td><td>1,5</td><td>2</td><td>2</td></tr> </table>	mm²	2,5	4	6	10	mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹	mm²	2,5	4	6	10	Nm	1,5	1,5	2	2
mm²	2,5	4	6	10																				
mm	5 ⁺¹	5 ⁺¹	8 ⁺¹	11 ⁺¹																				
mm²	2,5	4	6	10																				
Nm	1,5	1,5	2	2																				

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han® C , Crimp contact, Contact surface: Silver plated	1,5	09 32 000 6104	09 32 000 6204																			
	2,5	09 32 000 6105	09 32 000 6205																			
	4	09 32 000 6107	09 32 000 6207																			
	6	09 32 000 6108	09 32 000 6208																			
				<table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm
Conductor cross-section	Ø	Stripping length																				
1.5 mm² AWG 16	1.75 mm	9.5 mm																				
2.5 mm² AWG 14	2.25 mm	9.5 mm																				
4 mm² AWG 12	2.85 mm	9.5 mm																				
6 mm² AWG 10	3.5 mm	9.5 mm																				
10 mm² AWG 8	4.3 mm	12 mm																				

Features

- Suitable for Han® C crimp contacts
- Designed for a high working voltage up to 830 V
- Finger safe male and female contacts
- High density of contacts

Technical characteristics

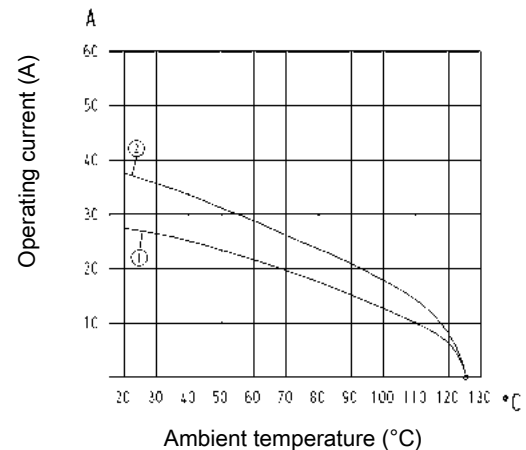
Number of contacts	4
Electrical data acc. to IEC 61984	40 A 830 V 8 kV 3
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

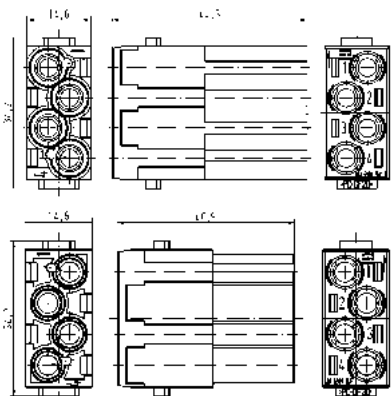
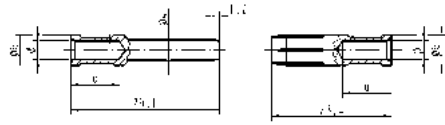
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

4

40 A 830 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han® CC Protected module, Crimp termination  Please order crimp contacts separately.	1,5 ... 6	09 14 004 3041	09 14 004 3141																			
Han® C , Crimp contact, Contact surface: Silver plated 	1,5 2,5 4 6	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208	 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm
Conductor cross-section	Ø	Stripping length																				
1.5 mm² AWG 16	1.75 mm	9.5 mm																				
2.5 mm² AWG 14	2.25 mm	9.5 mm																				
4 mm² AWG 12	2.85 mm	9.5 mm																				
6 mm² AWG 10	3.5 mm	9.5 mm																				
10 mm² AWG 8	4.3 mm	12 mm																				

Features

- 3 contacts (40 A) for power circuits and 4 contacts (10 A) for signal circuits
- Ideal as motor drive connector
- Finger safe male and female contacts

Technical characteristics

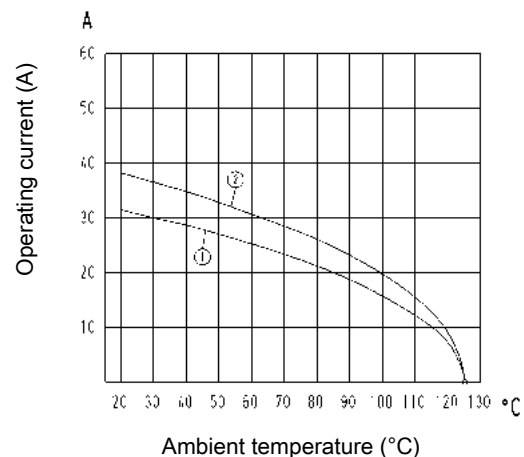
Number of contacts	3
Additional contacts	+ 4 additional signal contacts
Electrical data acc. to IEC 61984	40 A 830 V 8 kV 3
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Electrical data, signal	10 A 830 V 8 kV 3
Rated current (signal)	10 A
Rated voltage (signal)	830 V
Rated impulse voltage (signal)	8 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$, $\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 5 \text{ mm}$
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 DNV GL

Details

Contact resistance Han D® crimp contact: $\leq 3 \text{ m}\Omega$

Contact resistance Han® C crimp contact: $\leq 1 \text{ m}\Omega$

Crimping tools see chapter 90

Remarks on the crimp technique

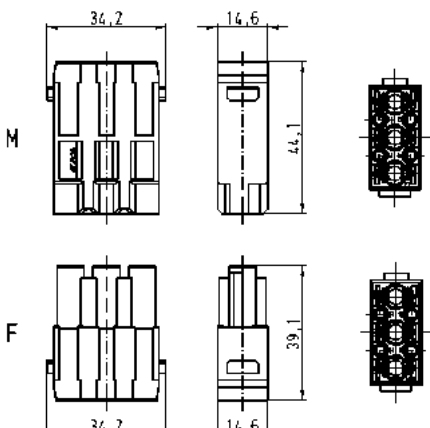
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

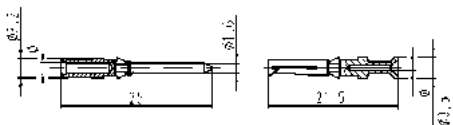
Number of contacts

3

40 A 830 V 8 kV 3
+ 4 additional signal contacts
10 A 830 V 8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular® , Han® CD module, Crimp termination  Please order crimp contacts separately.	0,14 ... 6	09 14 007 3001	09 14 007 3101	 Contact arrangement (view from termination side)
Han® C , Crimp contact, Contact surface: Silver plated 	1,5 2,5 4 6	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208	

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																												
		Male	Female																													
Han D® , Crimp contact, Contact surface: Gold plated	0,14 ... 0,37	09 15 000 6124	09 15 000 6224																													
	0,5	09 15 000 6123	09 15 000 6223																													
	0,75	09 15 000 6125	09 15 000 6225																													
	1	09 15 000 6122	09 15 000 6222																													
	1,5	09 15 000 6121	09 15 000 6221																													
	2,5	09 15 000 6126	09 15 000 6226																													
				<table><tr><th colspan="2">Wire gauge</th><th>∅</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm²</td><td>AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge		∅	Stripping length	0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm	0.5 mm²	AWG 20	1.1 mm	8 mm	0.75 mm²	AWG 18	1.3 mm	8 mm	1 mm²	AWG 18	1.45 mm	8 mm	1.5 mm²	AWG 16	1.75 mm	8 mm	2.5 mm²	AWG 14	2.25 mm	6 mm
Wire gauge		∅	Stripping length																													
0.14-0.37 mm²	AWG 26-22	0.9 mm	8 mm																													
0.5 mm²	AWG 20	1.1 mm	8 mm																													
0.75 mm²	AWG 18	1.3 mm	8 mm																													
1 mm²	AWG 18	1.45 mm	8 mm																													
1.5 mm²	AWG 16	1.75 mm	8 mm																													
2.5 mm²	AWG 14	2.25 mm	6 mm																													

Modu-
lar

Features

- Standard module for power up to 16 A
- Han-Quick Lock® or crimp termination available

Technical characteristics

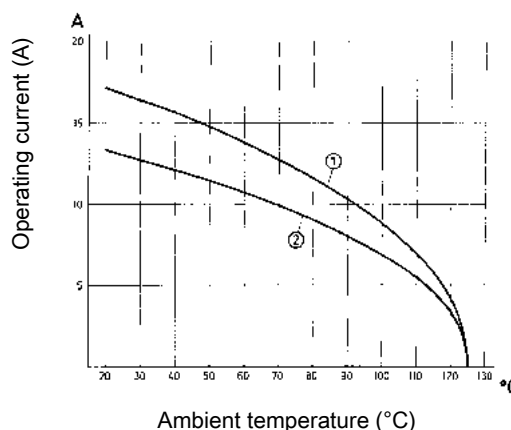
Number of contacts	6
Electrical data acc. to IEC 61984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²

② 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390
DNV GL
CSA-C22.2 No. 182.3 ECBT8.E235076

Details

Crimping tools see chapter 90

Remarks on the crimp technique

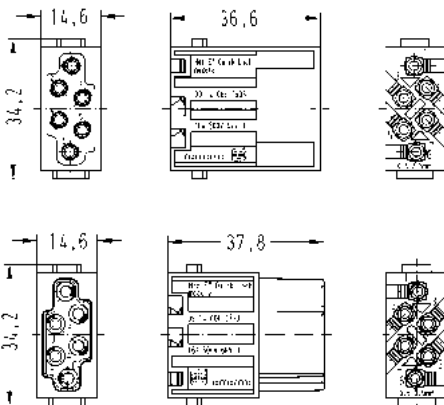
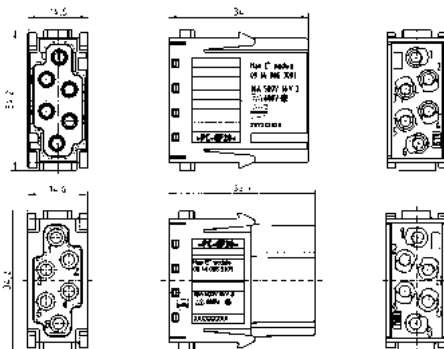
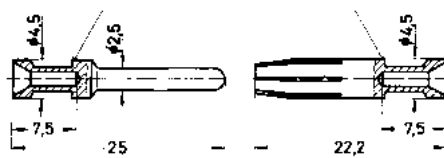
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6

16 A 500 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular®, Han E® module, Han-Quick Lock® termination, Contact surface: Silver plated 	0,5 ... 2,5	09 14 006 2633	09 14 006 2733	 Contact arrangement (view from termination side)																		
Han-Modular®, Han E® module, Crimp termination  Please order crimp contacts separately.	0,14 ... 4	09 14 006 3001	09 14 006 3101	 Contact arrangement (view from termination side)																		
Han E®, Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove
Conductor cross-section	Identification																					
0.14-0.37 mm²	AWG 26-22 no groove																					
0.5 mm²	AWG 20 no groove																					
0.75 mm²	AWG 18 1 groove*																					
1 mm²	AWG 18 1 groove																					
1.5 mm²	AWG 16 2 grooves																					
2.5 mm²	AWG 14 3 grooves																					
3 mm²	AWG 12 wide groove																					
4 mm²	AWG 12 no groove																					

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han E®, Crimp contact, Contact surface: Gold plated	0,14 ... 0,37	09 33 000 6117	09 33 000 6217	
	0,5	09 33 000 6122	09 33 000 6222	
	0,75	09 33 000 6115	09 33 000 6215	
	1	09 33 000 6118	09 33 000 6218	
	1,5	09 33 000 6116	09 33 000 6216	
	2,5	09 33 000 6123	09 33 000 6223	
	4	09 33 000 6119	09 33 000 6221	



Conductor cross-section		Identification
0.14-0.37 mm²	AWG 26-22	no groove
0.5 mm²	AWG 20	no groove
0.75 mm²	AWG 18	1 groove*
1 mm²	AWG 18	1 groove
1.5 mm²	AWG 16	2 grooves
2.5 mm²	AWG 14	3 grooves
3 mm²	AWG 12	wide groove
4 mm²	AWG 12	no groove

* on the back crimp collar

Stripping length 7.5 mm

Number of contacts

5

16 A 230/400 V 4 kV 3

Modu-
lar

Features

- Screw connection, suitable for all users around the world
- No special tools required
- for flexible and solid conductors from 0.5 to 2.5 mm²
- Additional protection against voltage and accidental contact by a sliding insulation cover which closes automatically during mating.

Technical characteristics

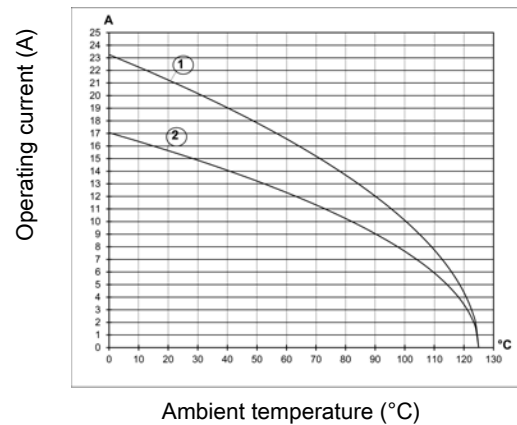
Number of contacts	5
Electrical data acc. to IEC 61984	16 A 230/400 V 4 kV 3
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① Conductor cross-section 2.5 mm²
 ② Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han E® module, Screw termination, Contact surface: Silver plated	0,5 ... 2,5	09 14 005 2601	09 14 005 2701	M F Stripping length 7.5 mm Tightening torque 0.5 Nm

Features

- Suitable for Han E® crimp contacts
- Designed for a high working voltage up to 830 V
- Finger safe male and female contacts

Technical characteristics

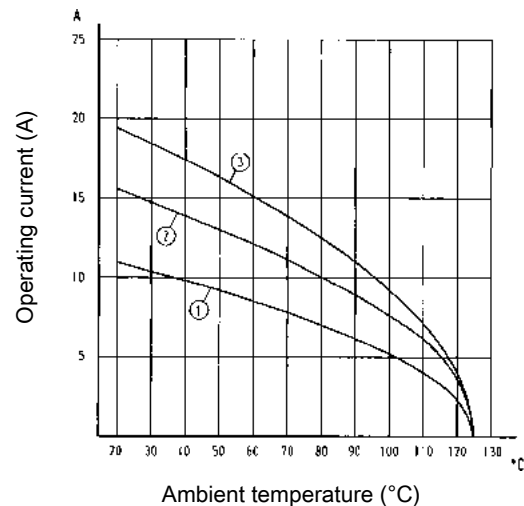
Number of contacts	6
Electrical data acc. to IEC 61984	16 A 830 V 8 kV 3
Rated current	16 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²
 ③ 24 B hoods/housings with 6 modules Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

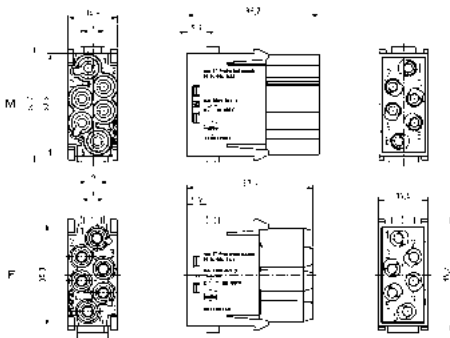
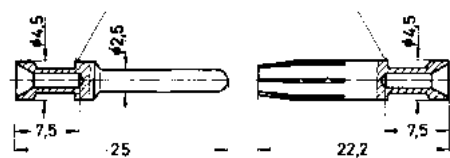
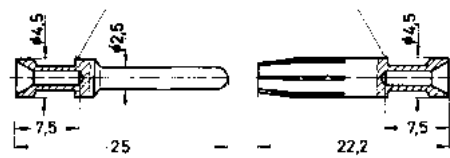
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

6

16 A 830 V 8 kV 3

Modular

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular® , Han E® Protected module, Crimp termination  Please order crimp contacts separately.	0,14 ... 4	09 14 006 3041	09 14 006 3141	 Contact arrangement (view from termination side)																		
Han E® , Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove
Conductor cross-section	Identification																					
0.14-0.37 mm²	AWG 26-22 no groove																					
0.5 mm²	AWG 20 no groove																					
0.75 mm²	AWG 18 1 groove*																					
1 mm²	AWG 18 1 groove																					
1.5 mm²	AWG 16 2 grooves																					
2.5 mm²	AWG 14 3 grooves																					
3 mm²	AWG 12 wide groove																					
4 mm²	AWG 12 no groove																					
Han E® , Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove
Conductor cross-section	Identification																					
0.14-0.37 mm²	AWG 26-22 no groove																					
0.5 mm²	AWG 20 no groove																					
0.75 mm²	AWG 18 1 groove*																					
1 mm²	AWG 18 1 groove																					
1.5 mm²	AWG 16 2 grooves																					
2.5 mm²	AWG 14 3 grooves																					
3 mm²	AWG 12 wide groove																					
4 mm²	AWG 12 no groove																					

Features

- Han-Quick Lock® or crimp termination available
- High packing density

Technical characteristics

Number of contacts	8
Electrical data acc. to IEC 61984	16 A 400 V 6 kV 3
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

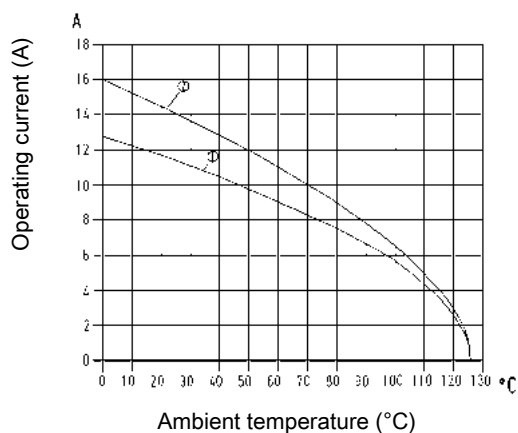
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

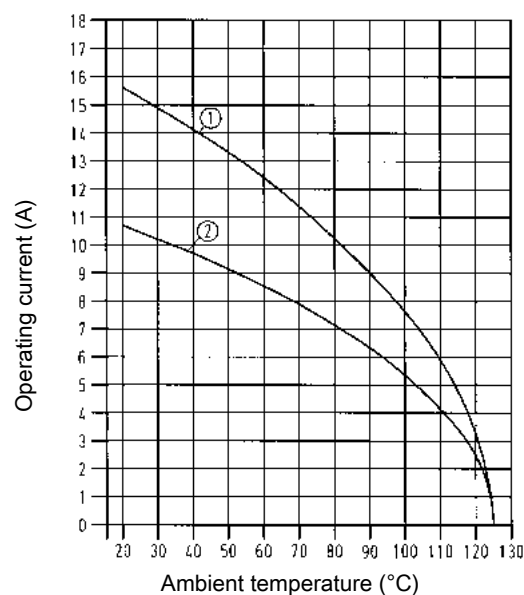
Han-Quick Lock® termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²

Derating

Crimp termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

8
16 A 400 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® EE module, Han-Quick Lock® termination, Contact surface: Silver plated Blue slide	0,5 ... 2,5	09 14 008 2633	09 14 008 2733	Contact arrangement (view from termination side) Stripping length 10 mm
Han-Modular®, Han® EE module, Han-Quick Lock® termination, Contact surface: Silver plated Black slide	0,25 ... 1,5	09 14 008 2634	09 14 008 2734	

Features

- Suitable for Han E® crimp contacts
- Higher density of crimping contacts
- Standard module for power up to 16 A
- Also suitable as a reliable signal connector

Technical characteristics

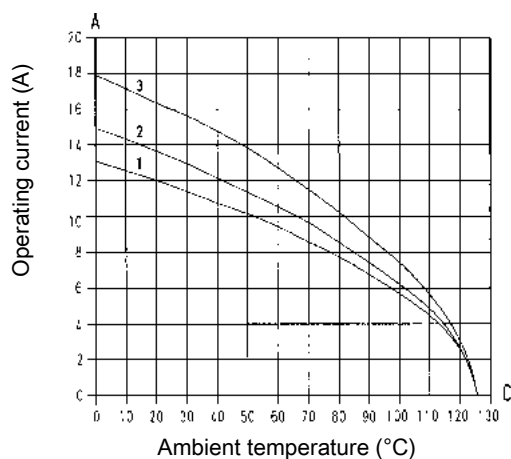
Number of contacts	20
Electrical data acc. to IEC 61984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 3 modules Conductor cross-section 1.5 mm²
- ② 24 B hoods/housings with 3 modules Conductor cross-section 2.5 mm²
- ③ 24 B hoods/housings with 3 modules Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL
UL 2237 PVVA2.E318390
CSA-C22.2 No. 182.3 PVVA8.E318390

Details

Crimping tools see chapter 90

Remarks on the crimp technique

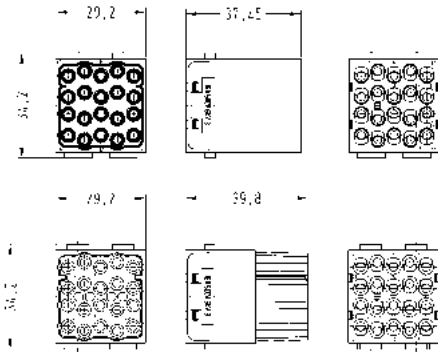
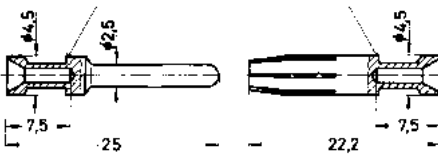
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

20

16 A 500 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular® , Han® EEE module, Crimp termination  Please order crimp contacts separately.	0,14 ... 4	09 14 020 3001	09 14 020 3101	 Contact arrangement (view from termination side)																		
Han E® , Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5 3 4	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove
Conductor cross-section	Identification																					
0.14-0.37 mm²	AWG 26-22 no groove																					
0.5 mm²	AWG 20 no groove																					
0.75 mm²	AWG 18 1 groove*																					
1 mm²	AWG 18 1 groove																					
1.5 mm²	AWG 16 2 grooves																					
2.5 mm²	AWG 14 3 grooves																					
3 mm²	AWG 12 wide groove																					
4 mm²	AWG 12 no groove																					

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han E®, Crimp contact, Contact surface: Gold plated	0,14 ... 0,37	09 33 000 6117	09 33 000 6217	
	0,5	09 33 000 6122	09 33 000 6222	
	0,75	09 33 000 6115	09 33 000 6215	
	1	09 33 000 6118	09 33 000 6218	
	1,5	09 33 000 6116	09 33 000 6216	
	2,5	09 33 000 6123	09 33 000 6223	
	4	09 33 000 6119	09 33 000 6221	



Conductor cross-section	Identification
0.14-0.37 mm²	AWG 26-22 no groove
0.5 mm²	AWG 20 no groove
0.75 mm²	AWG 18 1 groove*
1 mm²	AWG 18 1 groove
1.5 mm²	AWG 16 2 grooves
2.5 mm²	AWG 14 3 grooves
3 mm²	AWG 12 wide groove
4 mm²	AWG 12 no groove

* on the back crimp collar

Stripping length 7.5 mm

Features

- Reliable cage clamp termination
- No special tools required

Technical characteristics

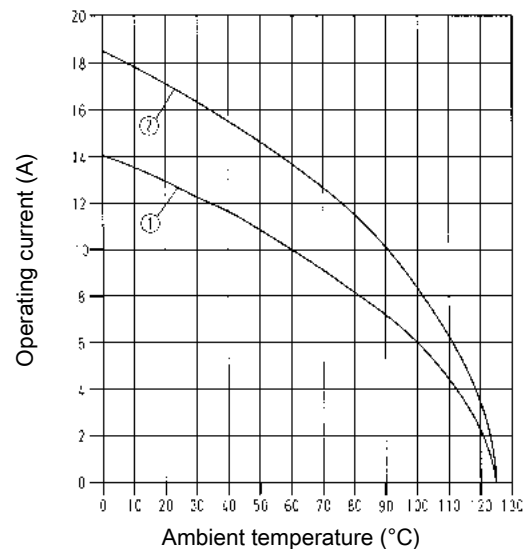
Number of contacts	5
Electrical data acc. to IEC 61984	16 A 400 V 6 kV 3
Rated current	16 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Number of contacts

5

16 A 400 V 6 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® ES module, Cage-clamp termination, Contact surface: Silver plated	0,14 ... 2,5	09 14 005 2616	09 14 005 2716	
Han-Modular®, Han® ES module, Cage-clamp termination, Contact surface: Gold plated	0,14 ... 2,5	09 14 005 2617	09 14 005 2717	Contact arrangement (view from termination side)

Features

- Available in two versions: for Han® C or Han E® crimp contacts
- 2 contacts up to 5000 V
- Insulator out of a voltage resistant teflon material
- Combination with all other modules (pneumatic, signal etc.)

Technical characteristics

Number of contacts	2
Electrical data acc. to IEC 61984	40 A 2.900/5.000 V 15 kV 3, 16 A 2.900/5.000 V 15 kV 3
Rated current	40 A, 16 A
Rated voltage conductor-earth	2900 V
Rated voltage conductor-conductor	5000 V
Rated impulse voltage	15 kV
Pollution degree	3
Rated current acc. to UL	31 A, 16 A
Rated voltage acc. to UL	5000 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate / Teflon (PTFE)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

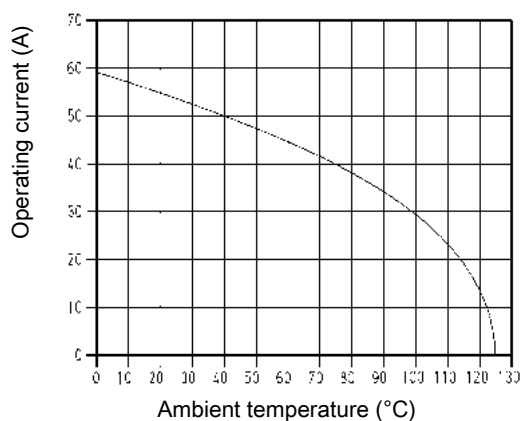
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

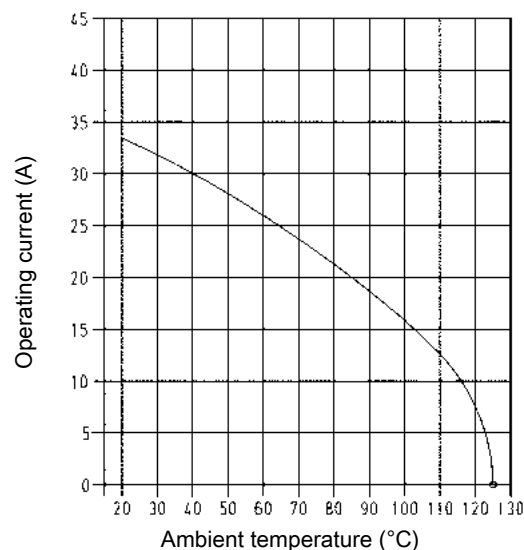
Han® C crimp contacts



① 24 B hoods/housings with 3 modules Conductor cross-section 6 mm²

Derating

Han E® crimp contacts



① Housing Han® 16 B with 1 Han® HV module Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
EN 50124-1
IEC 60352-4
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

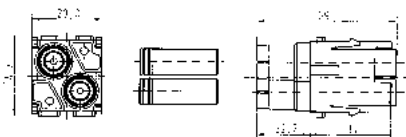
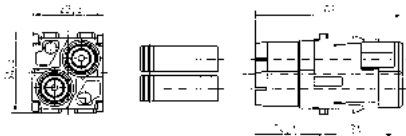
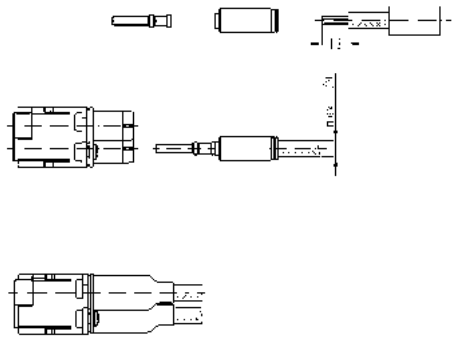
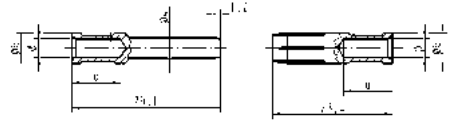
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

2

40 A 2.900/5.000 V 15 kV 3

Modular

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han-Modular® , Han® HV module, for Han® C crimp contacts, Crimp termination, Pack contents: 1 module, 2 locking sleeves, 2 heat shrink tubes  Please order crimp contacts separately.	1,5 ... 10	09 14 002 3023	09 14 002 3123	M  F  Assembly instructions  ATTENTION! Stripping length 13 mm Crimp with tool 09 99 000 0888, 09 99 000 0110 or 09 99 000 0377 Snap crimped cable in the insert. Shrink the heat shrink tube over the rear of contact.																		
Han® C , Crimp contact, Contact surface: Silver plated 	1,5 2,5 4 6 10	09 32 000 6104 09 32 000 6105 09 32 000 6107 09 32 000 6108 09 32 000 6109	09 32 000 6204 09 32 000 6205 09 32 000 6207 09 32 000 6208 09 32 000 6209	 <table><tr><th>Conductor cross-section</th><th>Ø</th><th>Stripping length</th></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>9.5 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>9.5 mm</td></tr><tr><td>4 mm² AWG 12</td><td>2.85 mm</td><td>9.5 mm</td></tr><tr><td>6 mm² AWG 10</td><td>3.5 mm</td><td>9.5 mm</td></tr><tr><td>10 mm² AWG 8</td><td>4.3 mm</td><td>12 mm</td></tr></table>	Conductor cross-section	Ø	Stripping length	1.5 mm² AWG 16	1.75 mm	9.5 mm	2.5 mm² AWG 14	2.25 mm	9.5 mm	4 mm² AWG 12	2.85 mm	9.5 mm	6 mm² AWG 10	3.5 mm	9.5 mm	10 mm² AWG 8	4.3 mm	12 mm
Conductor cross-section	Ø	Stripping length																				
1.5 mm² AWG 16	1.75 mm	9.5 mm																				
2.5 mm² AWG 14	2.25 mm	9.5 mm																				
4 mm² AWG 12	2.85 mm	9.5 mm																				
6 mm² AWG 10	3.5 mm	9.5 mm																				
10 mm² AWG 8	4.3 mm	12 mm																				

2

Modu-
lar

06
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61

Features

- Suitable for Han E® crimp contacts
- 2 contacts up to 2500 V
- Insulator out of a voltage resistant teflon material
- Combination with all other modules (pneumatic, signal etc.)

Technical characteristics

Number of contacts	2
Electrical data acc. to IEC 61984	16 A 2.500 V 15 kV 3
Rated current	16 A
Rated voltage	2500 V
Rated impulse voltage	15 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate / Teflon (PTFE)
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

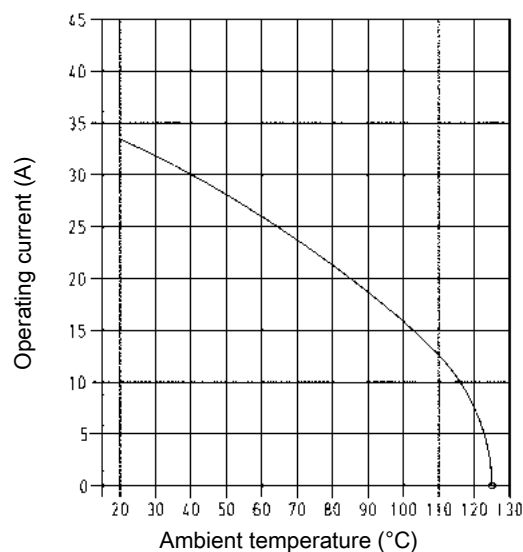
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

Han E® crimp contacts



① Housing Han® 16 B with 1 Han® HV module Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
EN 50124-1
DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

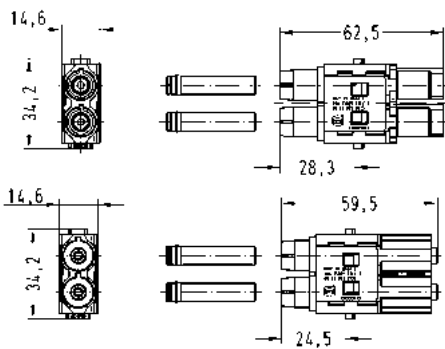
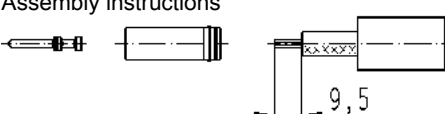
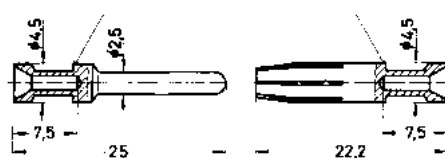
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

2

16 A 2.500 V 15 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																											
		Male	Female																												
Han-Modular®, Han® HV module, Single module, Crimp termination, Pack contents: 1 module, 2 locking sleeves, 2 heat shrink tubes  Please order crimp contacts separately.	0,5 ... 4	09 14 002 3025	09 14 002 3125	 Assembly instructions  ATTENTION! Stripping length 9.5 mm Crimp with crimping tool 09 99 000 0888 Snap crimped cable in the insert. Shrink the heat shrink tube over the rear of contact.																											
Han E®, Crimp contact, Contact surface: Silver plated 	0,5 0,75 1 1,5 2,5 3 4	09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107	09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207	 <table><tr><th colspan="2">Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20</td><td>no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18</td><td>1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18</td><td>1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16</td><td>2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14</td><td>3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12</td><td>wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12</td><td>no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section		Identification	0.14-0.37 mm²	AWG 26-22	no groove	0.5 mm²	AWG 20	no groove	0.75 mm²	AWG 18	1 groove*	1 mm²	AWG 18	1 groove	1.5 mm²	AWG 16	2 grooves	2.5 mm²	AWG 14	3 grooves	3 mm²	AWG 12	wide groove	4 mm²	AWG 12	no groove
Conductor cross-section		Identification																													
0.14-0.37 mm²	AWG 26-22	no groove																													
0.5 mm²	AWG 20	no groove																													
0.75 mm²	AWG 18	1 groove*																													
1 mm²	AWG 18	1 groove																													
1.5 mm²	AWG 16	2 grooves																													
2.5 mm²	AWG 14	3 grooves																													
3 mm²	AWG 12	wide groove																													
4 mm²	AWG 12	no groove																													

Features

- Han-Quick Lock® or crimp termination available
- Standard module for signal up to 10 A

Technical characteristics

Number of contacts	12
Electrical data acc. to IEC 61984	10 A 250 V 4 kV 3
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption, compliant
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

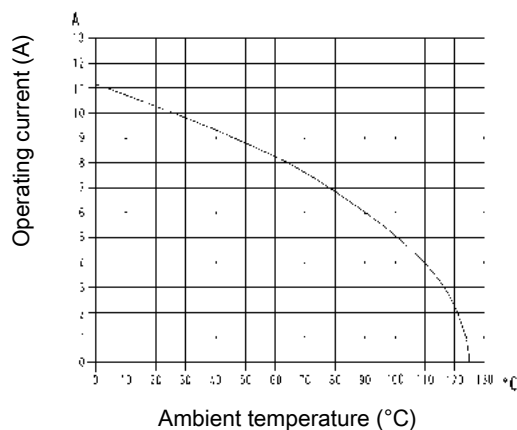
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

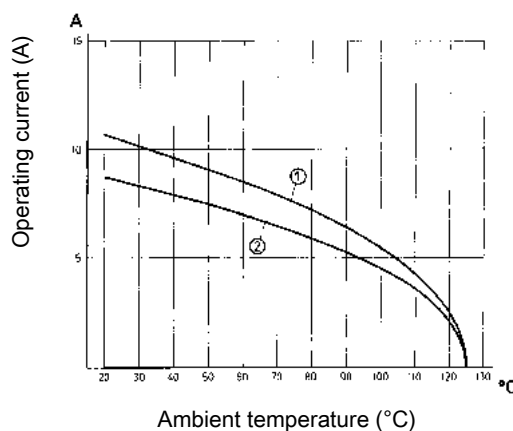
Han-Quick Lock® termination



① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

Derating

Crimp termination



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 1 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

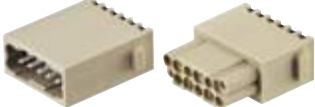
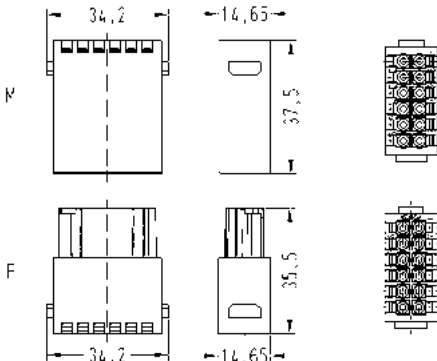
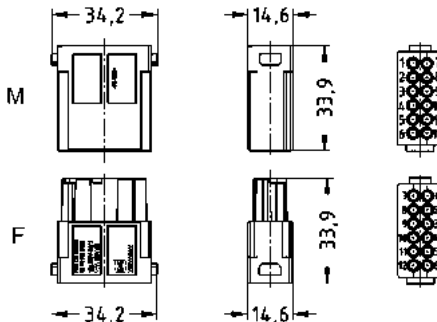
Number of contacts

12

10 A 250 V 4 kV 3



Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han DD® module, Han-Quick Lock® termination, Contact surface: Silver plated  Black slide	0,25 ... 1,5	09 14 012 2632	09 14 012 2732	 Contact arrangement (view from termination side) Stripping length 10 mm
Han-Modular®, Han DD® module, Han-Quick Lock® termination, Contact surface: Gold plated Black slide	0,25 ... 1,5	09 14 012 2634	09 14 012 2734	
Han-Modular®, Han DD® module, Crimp termination  Please order crimp contacts separately.	0,14 ... 2,5	09 14 012 3002	09 14 012 3102	 Contact arrangement (view from termination side)

Technical characteristics

Number of contacts	42
Electrical data acc. to IEC 61984	10 A 150 V 2,5 kV 3
Rated current	10 A
Rated voltage	150 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Rated voltage acc. to UL	250 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	LCP
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

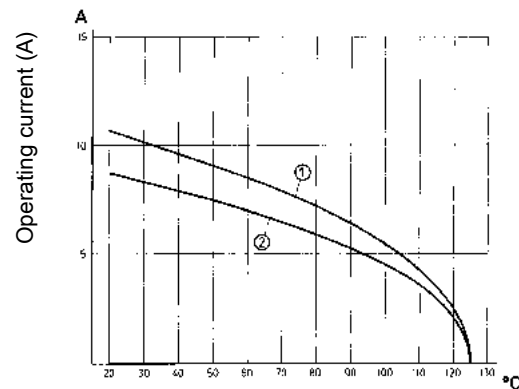
Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

Crimp termination



① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²

② 24 B hoods/housings with 6 modules Conductor cross-section 1 mm²

Specifications and approvals

UL 1977 ECBT2.E235076
EN 60664-1
IEC 61984

Details

Crimping tools see chapter 90

Remarks on the crimp technique

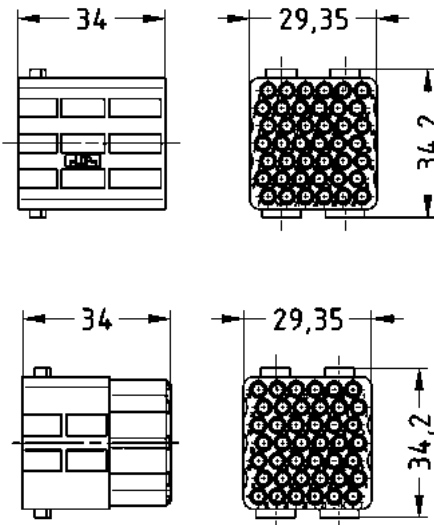
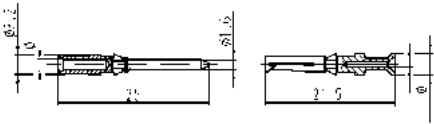
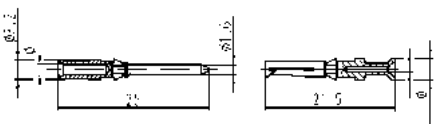
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

42

10 A 150 V 2,5 kV 3

Mod-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han DD® Quad module, Crimp termination  Please order crimp contacts separately.	0,14 ... 2,5	09 14 042 3001	09 14 042 3101																						
Han D®, Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Wire gauge	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
Han D®, Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Wire gauge	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Features

- Suitable for Han D® crimp contacts
- High packing density

Technical characteristics

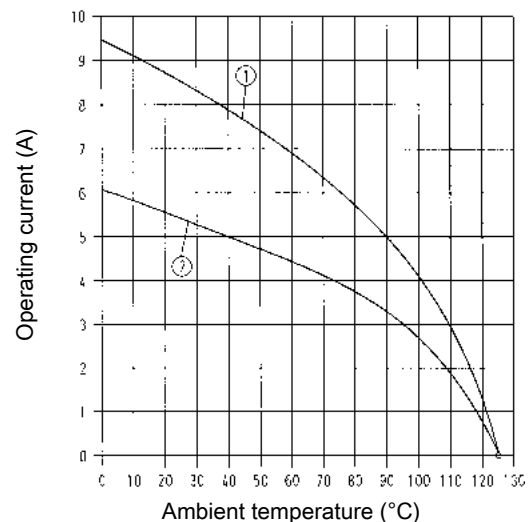
Number of contacts	17
Electrical data acc. to IEC 61984	10 A 160 V 2,5 kV 3
Rated current	10 A
Rated voltage	160 V
Rated impulse voltage	2.5 kV
Pollution degree	3
Rated voltage acc. to UL	250 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	≥ 10000
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules Conductor cross-section 1.5 mm²
 ② 24 B hoods/housings with 6 modules Conductor cross-section 1 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 UL 2237 PVVA2.E318390
 CSA-C22.2 No. 182.3 PVVA8.E318390
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

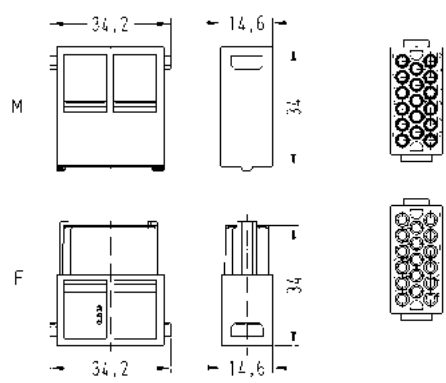
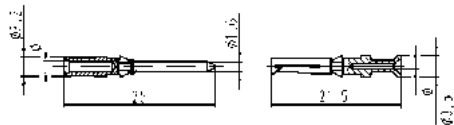
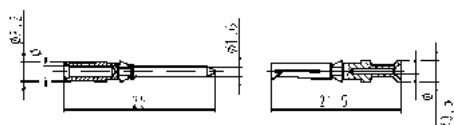
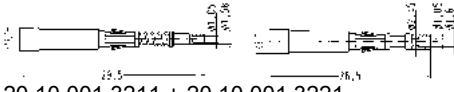
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

17

10 A 160 V 2,5 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular®, Han® DDD module, Crimp termination  Please order crimp contacts separately.	0,14 ... 2,5	09 14 017 3001	09 14 017 3101	 Contact arrangement (view from termination side)																					
Han D®, Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 6102 09 15 000 6101 09 15 000 6106	09 15 000 6204 09 15 000 6203 09 15 000 6205 09 15 000 6202 09 15 000 6201 09 15 000 6206	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Wire gauge	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
Han D®, Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Wire gauge	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
FO contact, for 1 mm plastic fibre 		20 10 001 3211	20 10 001 3221	 20 10 001 3211 + 20 10 001 3221																					

Features

- Suitable for standard D-Sub crimp contacts
- High packing density

Technical characteristics

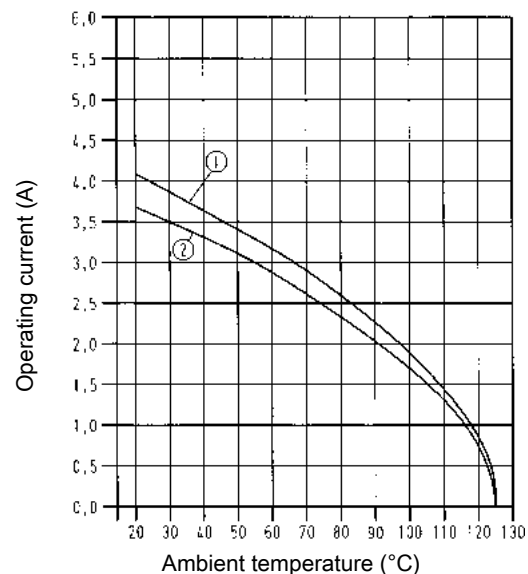
Number of contacts	25
Electrical data acc. to IEC 61984	4 A 50 V 0,8 kV 3
Rated current	4 A
Rated voltage	50 V
Rated impulse voltage	0,8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① 24 B hoods/housings with 6 modules; turned contacts Conductor cross-section 0.5 mm²
 ② 24 B hoods/housings with 6 modules; stamped contacts Conductor cross-section 0.5 mm²

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076

Details

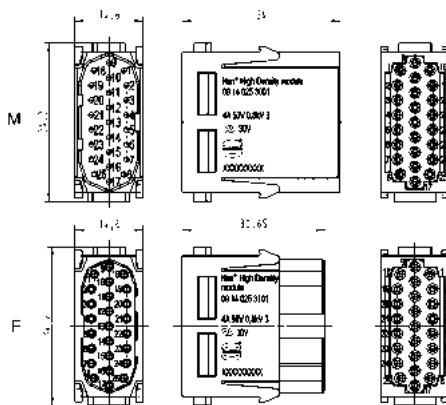
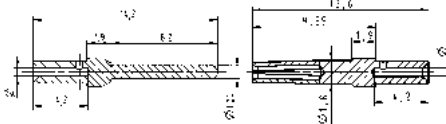
Guide pins and bushes are recommended (see chapter 80).

Number of contacts

25

4 A 50 V 0,8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular® , Han® High Density module, Crimp termination  Please order crimp contacts separately.	0,09 ... 0,52	09 14 025 3001	09 14 025 3101	 Contact arrangement (view from termination side)															
D-Sub , Standard, Crimp contact, Turned , Pack contents: Single contact 	0,09 ... 0,25 0,13 ... 0,33 0,25 ... 0,52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Wire gauge	Ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Wire gauge	Ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

Features

- Suitable for standard D-Sub crimp contacts
- 44 % higher density

Technical characteristics

Number of contacts	36
Electrical data acc. to IEC 61984	4 A 32 V 0,8 kV 3
Rated current	4 A
Rated voltage	32 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984

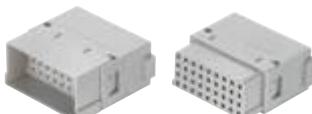
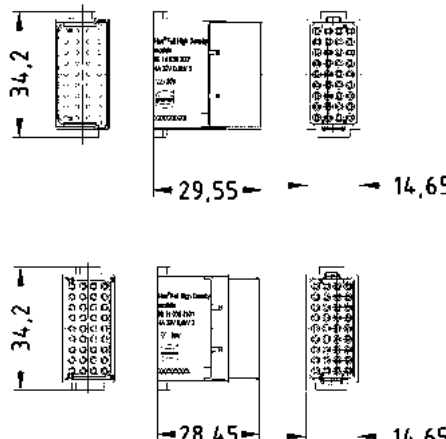
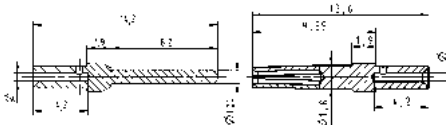
Modu-
lar

Number of contacts

36

4 A 32 V 0,8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
Han-Modular® , Han® Full High Density module, Crimp termination  Please order crimp contacts separately.	0,09 ... 0,52	09 14 036 3001	09 14 036 3101																
D-Sub , Standard, Crimp contact, Turned , Pack contents: Single contact 	0,09 ... 0,25 0,13 ... 0,33 0,25 ... 0,52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	<table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Wire gauge	Ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Wire gauge	Ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	

Features

- D-Sub 1 (9-pin) in the Han-Modular® system
- Suitable for the transmission of sensitive signals
- Compatible to crimp, solder or IDC termination

Technical characteristics

Number of contacts	9
Electrical data acc. to IEC 61984	5 A 50 V 0,8 kV 3
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate, Zinc die-cast
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Modu-
lar

Details

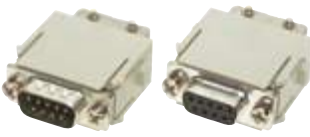
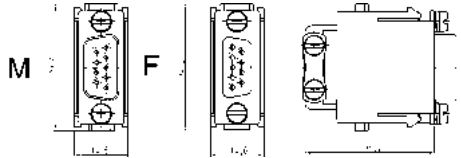
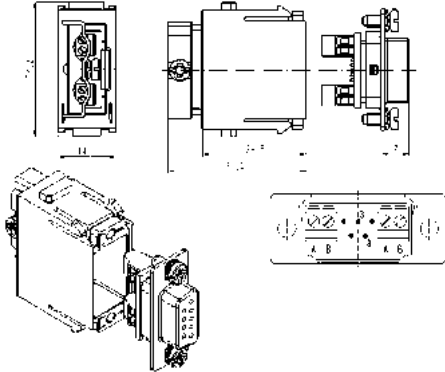
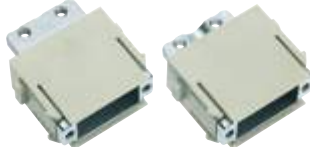
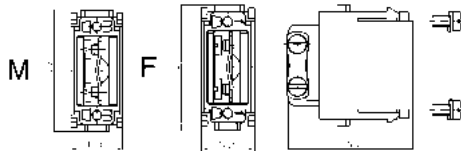
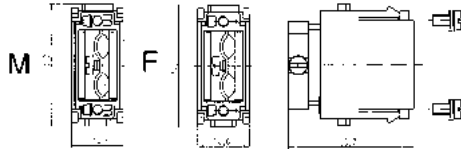
Guide pins and bushes are recommended (see chapter 80).

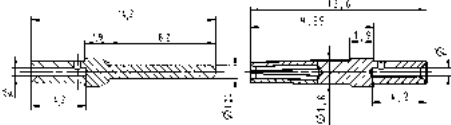
Number of contacts

9

5 A 50 V 0,8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® D-Sub module, Crimp termination  Please order crimp contacts separately.	0,08 ... 0,52	09 14 009 3001	09 14 009 3101	
Han-Modular®, Han® D-Sub module, Screw termination  for RS 485-based bus systems with T-functionality	0,08 ... 0,52		09 14 009 3151	 Contact arrangement (view from termination side) Signal A: Contact no. 8 Signal B: Contact no. 3
Han-Modular®, Adapter module, for D-Sub 1 (9-pin)  for one cable Han-Modular®, Adapter module, for D-Sub 1 (9-pin)  for two cables		09 14 000 9930	09 14 000 9931	
		09 14 000 9932	09 14 000 9933	

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)															
		Male	Female																
D-Sub , Standard, Crimp contact, Turned , Pack contents: Single contact	0,09 ... 0,25 0,13 ... 0,33 0,25 ... 0,52	09 67 000 7576 09 67 000 5576 09 67 000 8576	09 67 000 7476 09 67 000 5476 09 67 000 8476	 <table><tr><td>Wire gauge</td><td>Ø</td><td>Stripping length</td></tr><tr><td>0.09-0.25 mm²</td><td>0.64 mm</td><td>4 mm</td></tr><tr><td>0.13-0.33 mm²</td><td>0.88 mm</td><td>4 mm</td></tr><tr><td>0.25-0.52 mm²</td><td>1.13 mm</td><td>4 mm</td></tr><tr><td>0.33-0.82 mm²</td><td>1.34 mm</td><td>4 mm</td></tr></table> for stranded wire according IEC 60228 Class 5	Wire gauge	Ø	Stripping length	0.09-0.25 mm²	0.64 mm	4 mm	0.13-0.33 mm²	0.88 mm	4 mm	0.25-0.52 mm²	1.13 mm	4 mm	0.33-0.82 mm²	1.34 mm	4 mm
Wire gauge	Ø	Stripping length																	
0.09-0.25 mm²	0.64 mm	4 mm																	
0.13-0.33 mm²	0.88 mm	4 mm																	
0.25-0.52 mm²	1.13 mm	4 mm																	
0.33-0.82 mm²	1.34 mm	4 mm																	



Modu-
lar

Modu-
lar

Features

- According to USB 2.0 / USB 3.0 specification
- Simple and cost effective termination by plug in patch cable
- Cable tie strain relief

Technical characteristics

Number of contacts	4, 8
Electrical data acc. to IEC 61984	1 A 50 V 0,8 kV 3
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

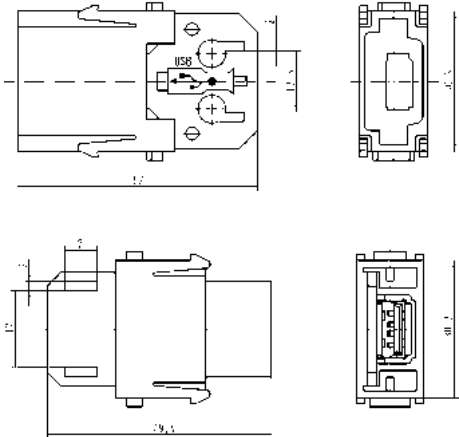
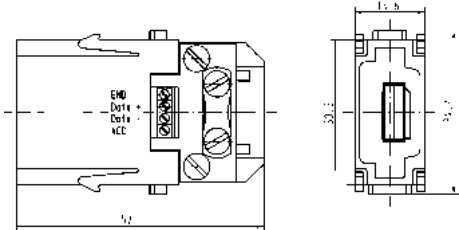
Specifications and approvals

EN 60664-1
IEC 60352-4
UL 1977 ECBT2.E235076
DNV GL

Number of contacts

4
1 A 50 V 0,8 kV 3

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han® USB module, for patch cable  USB 2.0	0,14 ... 0,5	09 14 001 4601	09 14 001 4701	
Han-Modular®, Han® USB module, for patch cable  USB 3.0			09 14 001 4703	
Han-Modular®, Han® USB module, for screw termination, Screw termination  USB 2.0		09 14 001 4651		 Stripping length 4.5 mm Tightening torque 0.12 Nm

Modu-
lar

Specifications and approvals

- EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

EN 60664-1
IEC 61984
UL 1977 EC
DNV GL

Number of contacts	6
Electrical data acc. to IEC 61984	1 A 50 V 0,8 kV 3
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® FireWire module, for patch cable	09 14 001 4611	09 14 001 4711	

Number of contacts

8

Modu-
lar

Features

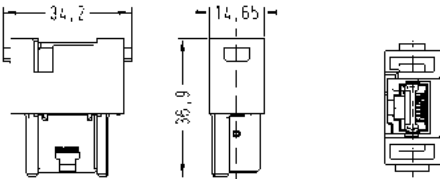
Specifications and approvals

- Single module with standard shielded RJ45 plug and jack
- Cat. 6 for all data pairs (8-pin)
- Patch cables are assembled/removed without tools

EN 60664-1
IEC 61984
DNV GL
UL 1977 ECBT2.E235076

Technical characteristics

Number of contacts	8, 4
Electrical data acc. to IEC 61984	1 A 50 V 0,8 kV 3
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	≥10 ¹⁰ Ω
Limiting temperature	-40 ... +70 °C
Mating cycles	≥500
Transmission characteristics	Cat. 6 _A , Class E _A up to 500 MHz, Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (insert)	Polyamide, Polycarbonate, Zinc die-cast, nickel-plated
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Identification	Part number	Drawing (dimensions in mm)
Han-Modular® , Han® RJ45 module, Single module  Please order insert separately. Han-Modular® , Han® RJ45 module, Gender changer, for patch cable, 8-pins, Cat. 6_A 	09 14 001 4722 09 14 001 4721	

Identification	Part number	Drawing (dimensions in mm)
Data connectors, Han® RJ45 cable jack, preLink® termination, 8-pins, Cat. 6 _A 	AWG 23 ... AWG 22	09 14 008 4720
Data connectors, Han® RJ45 cable jack, IDC termination, 4-pin, Cat. 5 	AWG 24 ... AWG 22	09 14 545 1120
Data connectors, Han® RJ45 cable jack, IDC termination, 8-pins, Cat. 6 _A 	AWG 24 ... AWG 22 AWG 28 ... AWG 24	09 14 545 1562 09 14 545 1561

Number of contacts

8

1 A 50 V 0,8 kV 3

Modu-
lar

Features

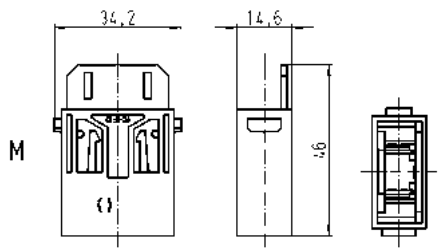
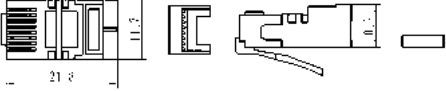
Specifications and approvals

- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator

Technical characteristics

Number of contacts	8
Electrical data acc. to IEC 61984	1 A 50 V 0,8 kV 3
Rated current	1 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL	30 V
Insulation resistance	≥10 ¹⁰ Ω
Limiting temperature	-40 ... +70 °C
Mating cycles	≥500
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Han® RJ45 module  for data connectors	09 14 001 4622	
RJ45 , Data connectors, for Han® RJ45 module, Cat. 5 	09 12 000 9958	

Modu-
lar

Features

- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- 360° shielded contact
- Field assembly without tools possible by means of *HARAX®* rapid termination in IDC technology
- Suitable for termination of massive and flexible wires

Technical characteristics

Number of contacts	4
Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +70 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 1,6 \text{ mm}$
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s
Material (insert)	Polycarbonate, Polyamide
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL
IEC 60603-7

Identification	Part number		Drawing (dimensions in mm)
Han-Modular®, Han® RJ45 module, Single module		09 14 001 4623	Wire outer diameter $\leq 1.6 \text{ mm}$
Data connectors, RJ Industrial RJ45 connector set	AWG 24 ... AWG 22 AWG 26	09 45 400 1100 09 45 400 1109	

Features

- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- 360° shielded contact
- Field assembly without tools possible by means of *HARAX*® rapid termination in IDC technology
- Gigalink: Field assembly by means of piercing contacts (Assembly tool 09 45 800 0520)
- Suitable for termination of massive and flexible wires
- Gigalink: Suitable for termination of flexible wires

Technical characteristics

Number of contacts	8
Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +70 °C
Mating cycles	≥ 500
Wire outer diameter	$\leq 1,05 \text{ mm}$, $\leq 1,5 \text{ mm}$
Transmission characteristics	Cat. 6 _A , Class E _A up to 500 MHz, Cat. 6, Class E up to 250 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (insert)	Polycarbonate, Polyamide
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL
IEC 60603-7
UL 1977 ECBT2.E102079
CSA-C22.2 No. 182.3 ECBT8.E102079

Identification

Han-Modular®,
Han® RJ45 module,
Single module



Data connectors,
RJ Industrial RJ45 Gigalink connector set,
Cat. 6_A



Data connectors,
RJ Industrial RJ45 connector set,
Cat. 6



AWG 28 ... AWG 24

AWG 27 ... AWG 22

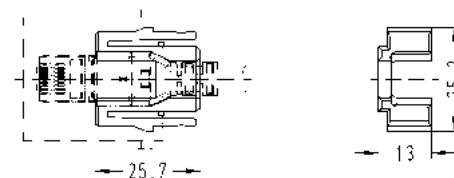
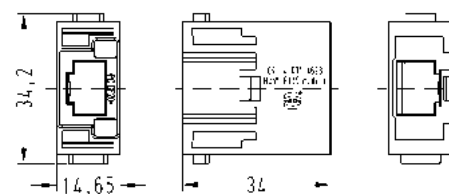
Part number

09 14 001 4623

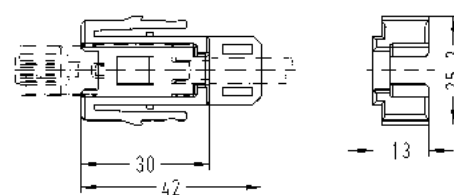
09 45 400 1520

09 45 400 1560

Drawing (dimensions in mm)



Wire outer diameter $\leq 1.05 \text{ mm}$



Wire outer diameter $\leq 1.5 \text{ mm}$

Features

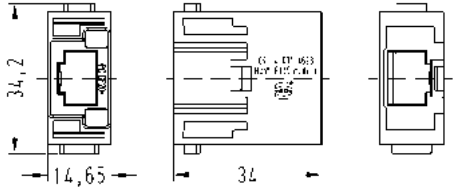
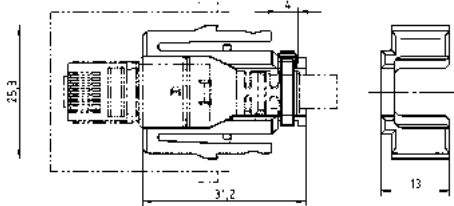
- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- Patch cables are assembled/removed without tools

Technical characteristics

Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984
DNV GL

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Han® RJ45 module, Single module 	09 14 001 4623	
Han-Modular®, Han® RJ45 module, Adapter, for patch cable 	09 14 000 9966	

4x 2 Twisted Pair
HARTING RJ Industrial®
HARTING RJ Industrial®



Modu-
lar

Features

- Locking lever protection for RJ45 connector latch
- Very short plug design in combination with robust bend protection
- Fully EMC screened (aluminium-clad foil and braid)

Technical characteristics

Number of cores	8
Core structure	4x 2 Twisted Pair
Connector 1	HARTING RJ Industrial®
Connector 2	HARTING RJ Industrial®
Limiting temperature	-30 ... +75 °C unmoved, -5 ... +50 °C moved
Degree of protection acc. to IEC 60529	IP20
Transmission characteristics	Cat. 5e, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s
Material (cable)	PUR (polyurethane)
Colour (cable)	Yellow
RoHS	compliant

Specifications and approvals

IEC 11801
IEC 24702
IEC 61935-2



Details

Other cable lengths on request!

Identification	Cable length	Part number	Drawing (dimensions in mm)
RJ45 , Copper cable (round), Halogen-free, oil resistant, Pre-assembled on both sides	0.2 m	09 47 474 7001	
	0.3 m	09 47 474 7002	
	0.4 m	09 47 474 7003	
	0.5 m	09 47 474 7004	
	0.6 m	09 47 474 7005	
	0.7 m	09 47 474 7006	
	0.8 m	09 47 474 7007	
	0.9 m	09 47 474 7008	
	1 m	09 47 474 7009	
	1.5 m	09 47 474 7010	
	2 m	09 47 474 7011	
	2.5 m	09 47 474 7012	
	3 m	09 47 474 7013	
	3.5 m	09 47 474 7024	
	4 m	09 47 474 7014	
	5 m	09 47 474 7015	
	6 m	09 47 474 7016	
	7 m	09 47 474 7017	
	7.5 m	09 47 474 7018	
	8 m	09 47 474 7019	
	9 m	09 47 474 7020	
	10 m	09 47 474 7021	
	12 m	09 47 474 7035	
	15 m	09 47 474 7022	
	20 m	09 47 474 7023	
	25 m	09 47 474 7025	
	30 m	09 47 474 7027	
	35 m	09 47 474 7026	
	40 m	09 47 474 7028	
	50 m	09 47 474 7029	

4x 2 Twisted Pair
HARTING RJ Industrial®
HARTING RJ Industrial®



Modu-
lar

Features

- Locking lever protection for RJ45 connector latch
- Very short plug design in combination with robust bend protection
- Fully EMC screened (aluminium-clad foil and braid)

Technical characteristics

Number of cores	8
Core structure	4x 2 Twisted Pair
Connector 1	HARTING RJ Industrial®
Connector 2	HARTING RJ Industrial®
Limiting temperature	-30 ... +75 °C unmoved, -5 ... +50 °C moved
Degree of protection acc. to IEC 60529	IP20
Transmission characteristics	Cat. 6, Class E up to 250 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (cable)	PUR (polyurethane)
Colour (cable)	Yellow
RoHS	compliant

Specifications and approvals

IEC 11801
IEC 61156-6
IEC 24702



Details

Other cable lengths on request!

Identification	Cable length	Part number	Drawing (dimensions in mm)
RJ45 , Copper cable (round), Wiring 1:1, Halogen-free, oil resistant, Pre-assembled on both sides	0.2 m	09 47 474 7101	
	0.3 m	09 47 474 7102	
	0.4 m	09 47 474 7103	
	0.5 m	09 47 474 7104	
	0.6 m	09 47 474 7105	
	0.7 m	09 47 474 7106	
	0.8 m	09 47 474 7107	
	0.9 m	09 47 474 7108	
	1 m	09 47 474 7109	
	1.5 m	09 47 474 7110	
	2 m	09 47 474 7111	
	2.5 m	09 47 474 7112	
	3 m	09 47 474 7113	
	4 m	09 47 474 7114	
	5 m	09 47 474 7115	
	6 m	09 47 474 7116	
	7 m	09 47 474 7117	
	7.5 m	09 47 474 7118	
	8 m	09 47 474 7119	
	9 m	09 47 474 7120	
	10 m	09 47 474 7121	
	15 m	09 47 474 7122	
	16 m	09 47 474 7124	
	20 m	09 47 474 7123	
	25 m	09 47 474 7126	
	30 m	09 47 474 7125	
	100 m	09 47 474 7199	

Features

- Shielding bus separate from housing potential
- Suitable for the transmission of sensitive signals (e.g. bus signals)
- Usable for Gigabit Ethernet cat. 6_A

Technical characteristics

Number of contacts	8
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	5 A 50 V 0,8 kV 3
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Contact resistance	≤10 mΩ
Contact resistance, shielding	≤10 mΩ
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Transmission characteristics	Cat. 6 _A , Class E _A up to 500 MHz, Cat. 7 _A , Class F _A up to 1,000 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 10 Gbit/s
Material (insert)	Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E102079
DNV GL
UL 1977 ECBT2.E235076

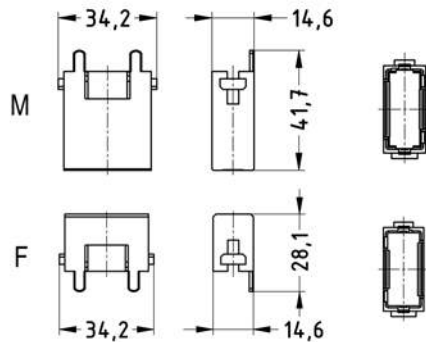
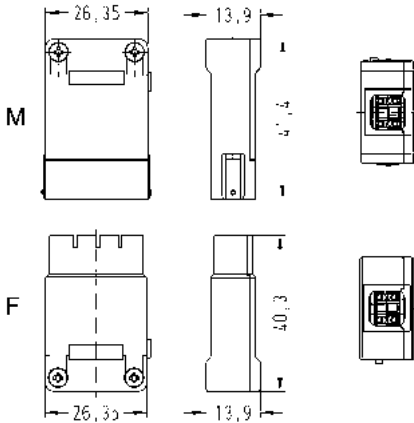
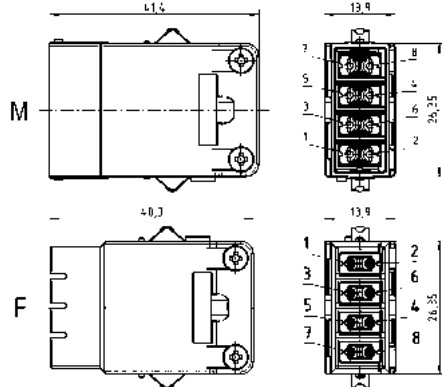
Modu-
lar

Number of contacts

8

5 A 50 V 0,8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module 		09 14 001 3011	09 14 001 3111	
Han® Gigabit insert, Crimp termination, Cat. 6_A  Please order crimp contacts separately. Please order adapter module separately.	0,09 ... 0,52	09 14 008 3011	09 14 008 3111	 Cable outer diameter ≤ 14 mm
Han® Gigabit insert, Crimp termination, Cat. 6_A  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0,09 ... 0,52	09 14 008 3012	09 14 008 3112	 Cable outer diameter ≤ 14 mm

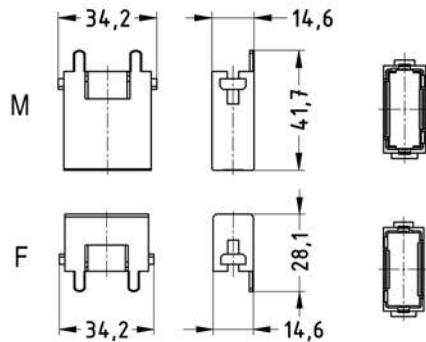
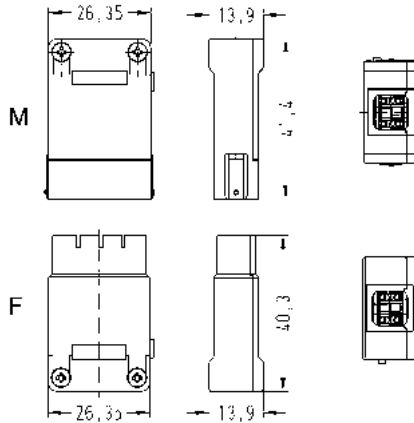
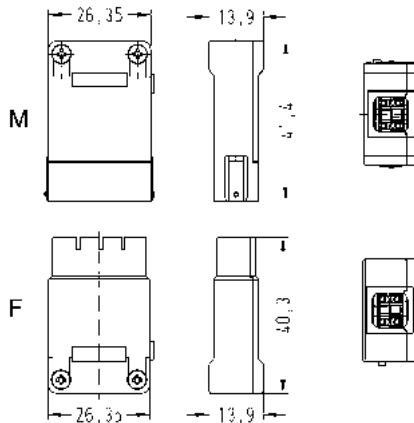
Modu-
lar

Number of contacts

8

5 A 50 V 0,8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module 		09 14 001 3011	09 14 001 3111	
Han® Gigabit insert, Crimp termination, Cat. 7_A  Please order crimp contacts separately. Please order adapter module separately.	0,09 ... 0,52	09 14 008 3031	09 14 008 3131	 Cable outer diameter ≤ 14 mm
Han® Gigabit insert, Crimp termination, Cat. 7_A  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0,09 ... 0,52	09 14 008 3032	09 14 008 3132	 Cable outer diameter ≤ 14 mm

Modu-
lar

Features

- Shielding bus separate from housing potential
- Suitable for the transmission of sensitive signals (e.g. bus signals)

Technical characteristics

Number of contacts	20
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	4 A 32 V 0,8 kV 3
Rated current	4 A
Rated voltage	32 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Contact resistance, shielding	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	LCP, Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E102079
DNV GL
UL 1977 ECBT2.E235076

20

Modu-
lar

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95

Features

- Shielding bus separate from housing potential
- Usable for Megabit Ethernet cat. 5e
- Suitable for Han® B, Han® M, Han® EMC and Han® HPR hoods/housings, high construction

Technical characteristics

Number of contacts	8
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	10 A 50 V 0,8 kV 3
Rated current	10 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Contact resistance	≤3 mΩ
Contact resistance, shielding	≤10 mΩ
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s
Material (insert)	Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E102079
DNV GL
UL 1977 ECBT2.E235076

Details

Not suitable for hoods/housings low construction as well as Han-Modular® Eco, Han-Modular® Compact and Han-Modular® Twin.

Crimping tools see chapter 90

Remarks on the crimp technique

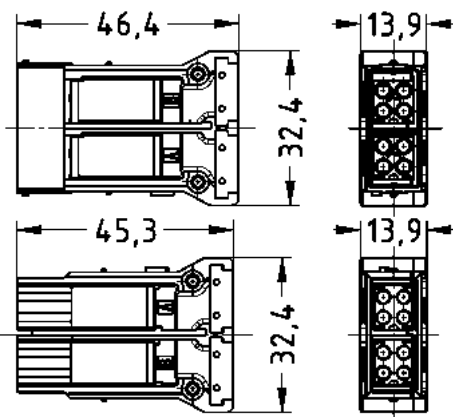
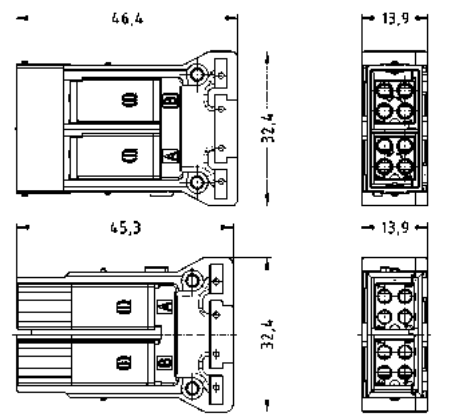
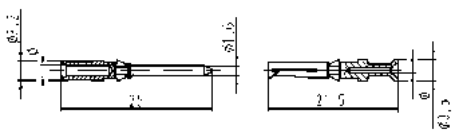
The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Number of contacts

8

10 A 50 V 0,8 kV 3
+ shielding

Modu-
lar

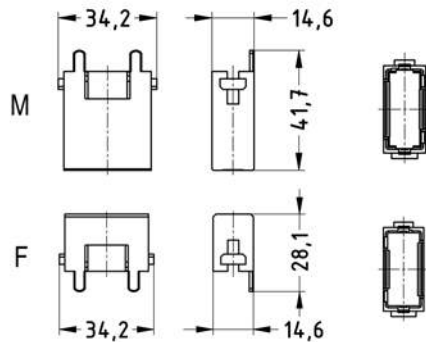
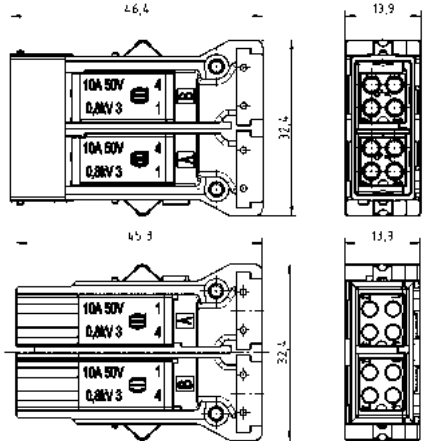
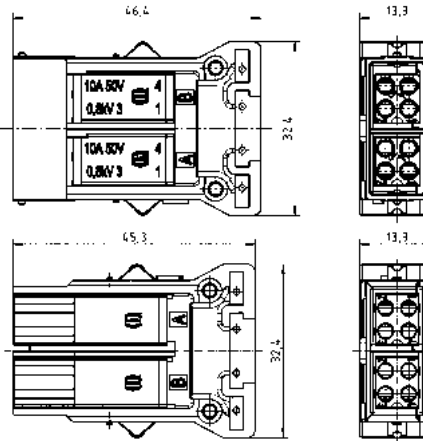
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han® Megabit insert, 2x 4 contacts, 2 cable entries, Crimp termination  Please order crimp contacts separately. Please order adapter module separately.	0,14 ... 2,5	09 14 008 3016	09 14 008 3116																						
Han® Megabit insert, 2x 4 contacts, One entry, Crimp termination  2x 4 contacts Please order crimp contacts separately. Please order adapter module separately.	0,14 ... 2,5	09 14 008 3021	09 14 008 3121																						
Han D®, Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Wire gauge	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							

Number of contacts

8

10 A 50 V 0,8 kV 3
+ shielding

Modu-
lar

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Adapter module 		09 14 001 3011	09 14 001 3111	
Han® Megabit insert, 2x 4 contacts, 2 cable entries, Crimp termination  With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0,14 ... 2,5	09 14 008 3017	09 14 008 3117	
Han® Megabit insert, 2x 4 contacts, One entry, Crimp termination  2x 4 contacts With additional shield connection to the hinged frame Please order crimp contacts separately. Please order adapter module separately.	0,14 ... 2,5	09 14 008 3022	09 14 008 3122	

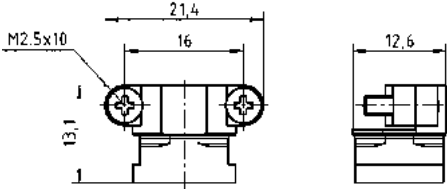
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han D®, Crimp contact, Contact surface: Gold plated	0,14 ... 0,37	09 15 000 6124	09 15 000 6224	

Technical characteristics

Material (accessories) Zinc die-cast
RoHS compliant

Details

09 14 000 9983, 61 03 000 0143 and 61 03 000 0148 only for modules with one cable entry!

Identification	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Cable clamp 	6 ... 10	09 14 000 9983	
Cable clamp, D-Sub 1 ... 4 	5 ... 7 7 ... 10 9 ... 12 11 ... 14	61 03 000 0141 61 03 000 0044 61 03 000 0143 61 03 000 0148	

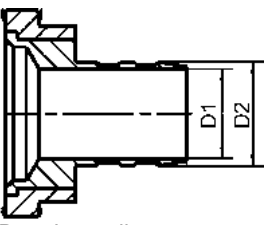
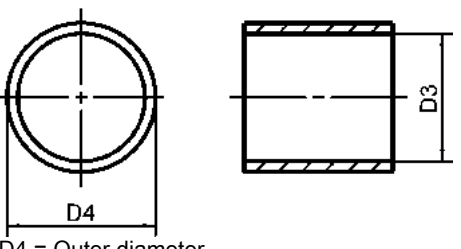
Technical characteristics

RoHS
RoHS exemptions

compliant with exemption
6c: Copper alloy containing up to 4 % lead by weight

Details

HARTING offers to test and define the best crimp flange and ferrule combination for customer specific cables.

Identification	Inner diameter	Outer diameter	Part number	Drawing (dimensions in mm)
D-Sub , Crimp flange, D-Sub 1 ... 4	3 mm	4 mm	61 03 000 0062	 D1 = Inner diameter D2 = Outer diameter
	3.5 mm	4.5 mm	61 03 000 0063	
	4 mm	5 mm	61 03 000 0064	
	4.5 mm	5.5 mm	61 03 000 0065	
	5 mm	6 mm	61 03 000 0066	
	5.5 mm	6.5 mm	61 03 000 0166	
	6 mm	7 mm	61 03 000 0067	
	6.5 mm	7.5 mm	61 03 000 0068	
	7 mm	8 mm	61 03 000 0069	
	7.5 mm	8.5 mm	61 03 000 0070	
	8 mm	9 mm	61 03 000 0071	
	8.5 mm	9.5 mm	61 03 000 0165	
	9 mm	10 mm	61 03 000 0072	
D-Sub , Crimp ferrule	5 mm	6 mm	61 03 000 0045	 D4 = Outer diameter D3 = Inner diameter
	5.5 mm	6.5 mm	61 03 000 0046	
	6 mm	7 mm	61 03 000 0047	
	6.5 mm	7.5 mm	61 03 000 0048	
	7 mm	8 mm	61 03 000 0049	
	7.5 mm	8.5 mm	61 03 000 0050	
	8 mm	9 mm	61 03 000 0051	
	8.5 mm	9.5 mm	61 03 000 0052	
	9 mm	10 mm	61 03 000 0053	
	9.5 mm	10.5 mm	61 03 000 0054	
	10 mm	11 mm	61 03 000 0055	
	10.5 mm	11.5 mm	61 03 000 0056	
	11 mm	12 mm	61 03 000 0057	
	11.5 mm	12.5 mm	61 03 000 0058	
	12 mm	13 mm	61 03 000 0142	
	12.5 mm	13.5 mm	61 03 000 0059	
	13 mm	14 mm	61 03 000 0127	
	13.7 mm	15 mm	61 03 000 0060	
	14 mm	15 mm	61 03 000 0061	

Features

- Shielding bus separate from housing potential
- Suitable for the transmission of sensitive signals (e.g. bus signals)
- The four pole Han® Quintax contact is suitable for Ethernet cat. 5e and PROFIBUS when diagonally wiring of the data pairs.

Technical characteristics

Number of contacts	4
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	10 A 50 V 0,8 kV 3
Rated current	10 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Contact resistance, shielding	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Metal
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

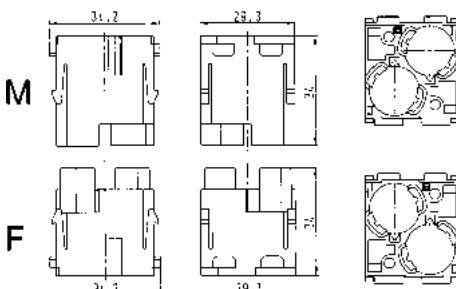
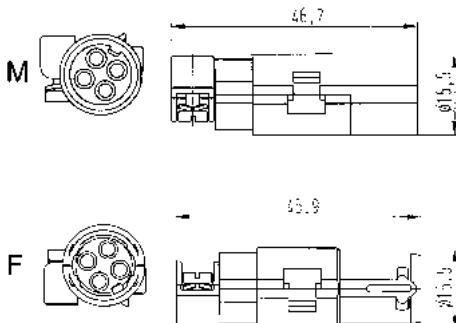
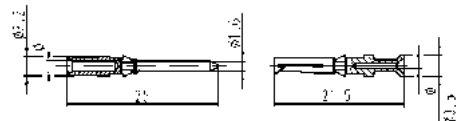
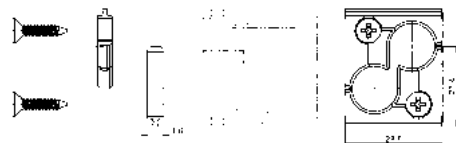
EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL
UL 1977 ECBT2.E102079
CSA-C22.2 No. 182.3 ECBT8.E102079

Details

Crimping tools see chapter 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																					
		Male	Female																						
Han-Modular® , Han-Quintax® module, Crimp termination 		09 14 002 3001	09 14 002 3101	 Contact arrangement (view from termination side)																					
Han-Quintax® , for Han D® crimp contacts  Please order crimp contacts separately.	0,14 ... 2,5	09 15 004 3013	09 15 004 3113	 Cable diameter 3 ... 9.5 mm																					
Han D® , Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 15 000 6124 09 15 000 6123 09 15 000 6125 09 15 000 6122 09 15 000 6121 09 15 000 6126	09 15 000 6224 09 15 000 6223 09 15 000 6225 09 15 000 6222 09 15 000 6221 09 15 000 6226	 <table><tr><th>Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><tr><td>0.14-0.37 mm² AWG 26-22</td><td>0.9 mm</td><td>8 mm</td></tr><tr><td>0.5 mm² AWG 20</td><td>1.1 mm</td><td>8 mm</td></tr><tr><td>0.75 mm² AWG 18</td><td>1.3 mm</td><td>8 mm</td></tr><tr><td>1 mm² AWG 18</td><td>1.45 mm</td><td>8 mm</td></tr><tr><td>1.5 mm² AWG 16</td><td>1.75 mm</td><td>8 mm</td></tr><tr><td>2.5 mm² AWG 14</td><td>2.25 mm</td><td>6 mm</td></tr></table>	Wire gauge	Ø	Stripping length	0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm	0.5 mm² AWG 20	1.1 mm	8 mm	0.75 mm² AWG 18	1.3 mm	8 mm	1 mm² AWG 18	1.45 mm	8 mm	1.5 mm² AWG 16	1.75 mm	8 mm	2.5 mm² AWG 14	2.25 mm	6 mm
Wire gauge	Ø	Stripping length																							
0.14-0.37 mm² AWG 26-22	0.9 mm	8 mm																							
0.5 mm² AWG 20	1.1 mm	8 mm																							
0.75 mm² AWG 18	1.3 mm	8 mm																							
1 mm² AWG 18	1.45 mm	8 mm																							
1.5 mm² AWG 16	1.75 mm	8 mm																							
2.5 mm² AWG 14	2.25 mm	6 mm																							
Han-Quintax® , Adapter, Metal  Optional		09 14 000 9915	09 14 000 9915																						

Technical characteristics

Number of contacts	8
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	5 A 50 V 0,8 kV 3
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Contact resistance, shielding	$\leq 10 \text{ m}\Omega$
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy

Technical characteristics

Material (accessories)	Metal
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL
 UL 1977 ECBT2.E102079
 CSA-C22.2 No. 182.3 ECBT8.E102079

Technical characteristics

Number of contacts	1
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	10 A 50 V 0,8 kV 3
Rated current	10 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 3 \text{ m}\Omega$
Contact resistance, shielding	$\leq 10 \text{ m}\Omega$
Impedance	75 Ω
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0

Technical characteristics

RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

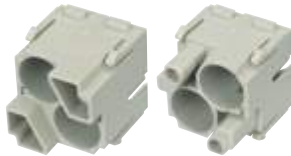
EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular® , Han-Quintax® module, Crimp termination 		09 14 002 3001	09 14 002 3101	

Technical characteristics

Number of contacts	1
Additional contacts	+ shielding
Electrical data acc. to IEC 61984	16 A 50 V 0,8 kV 3
Rated current	16 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Contact resistance, shielding	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Material (shielding)	Zinc die-cast, nickel-plated
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0

Technical characteristics

RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

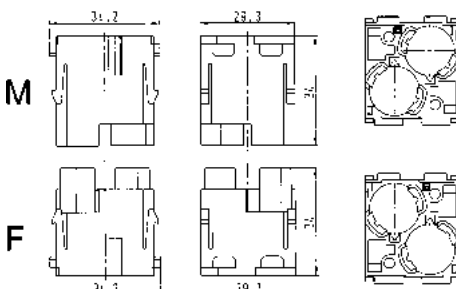
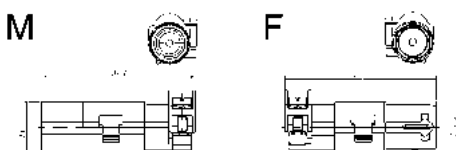
EN 60664-1
 IEC 61984
 UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Details

Crimping tools see chapter 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																								
		Male	Female																									
Han-Modular® , Han-Quintax® module, Crimp termination 		09 14 002 3001	09 14 002 3101	 Contact arrangement (view from termination side)																								
Han® E Coax , Crimp termination, for Han E® crimp contacts  Please order crimp contacts separately.	0,14 ... 4	09 15 001 3023	09 15 001 3123	 <table><tr><td>Han E® Coax with RG 213 cable (2.5 mm²)</td><td>200 MHz</td><td>500 MHz</td><td>1.0 GHz</td><td>1.2 GHz</td><td>1.5 GHz</td><td>2.0 GHz</td><td>2.5 GHz</td></tr><tr><td>Return loss [dB]</td><td>23.8</td><td>21.1</td><td>>18.7</td><td>>17.7</td><td>>16.4</td><td>>14.1</td><td>>12.0</td></tr><tr><td>Attenuation [dB]</td><td>0.07</td><td>0.11</td><td>0.17</td><td>0.2</td><td><0.23</td><td><0.53</td><td><2.0</td></tr></table>	Han E® Coax with RG 213 cable (2.5 mm²)	200 MHz	500 MHz	1.0 GHz	1.2 GHz	1.5 GHz	2.0 GHz	2.5 GHz	Return loss [dB]	23.8	21.1	>18.7	>17.7	>16.4	>14.1	>12.0	Attenuation [dB]	0.07	0.11	0.17	0.2	<0.23	<0.53	<2.0
Han E® Coax with RG 213 cable (2.5 mm²)	200 MHz	500 MHz	1.0 GHz	1.2 GHz	1.5 GHz	2.0 GHz	2.5 GHz																					
Return loss [dB]	23.8	21.1	>18.7	>17.7	>16.4	>14.1	>12.0																					
Attenuation [dB]	0.07	0.11	0.17	0.2	<0.23	<0.53	<2.0																					
Han E® , Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5 4	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221	 <table><tr><th>Conductor cross-section</th><th>Identification</th></tr><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove						
Conductor cross-section	Identification																											
0.14-0.37 mm²	AWG 26-22 no groove																											
0.5 mm²	AWG 20 no groove																											
0.75 mm²	AWG 18 1 groove*																											
1 mm²	AWG 18 1 groove																											
1.5 mm²	AWG 16 2 grooves																											
2.5 mm²	AWG 14 3 grooves																											
3 mm²	AWG 12 wide groove																											
4 mm²	AWG 12 no groove																											

Number of contacts

4

1,5 A 50 V

Modu-
lar

Features

- Suitable for FOC and coaxial contacts acc. to EN 41626

Technical characteristics

Number of contacts	4
Electrical data acc. to IEC 61984	1,5 A 50 V
Rated current	1.5 A
Rated voltage	50 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω , 75 Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

ATTENTION when using coaxial contacts:

Male module 09 14 004 4501 with contacts 09 14 000 62xx or 09 69 28x 5xxx

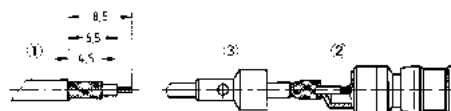
Female module 09 14 004 4513 with contacts 09 14 000 61xx or 09 69 18x 5xxx

When removing the contacts, the two-piece module can be opened using a 7mm screwdriver. This destroys the module.

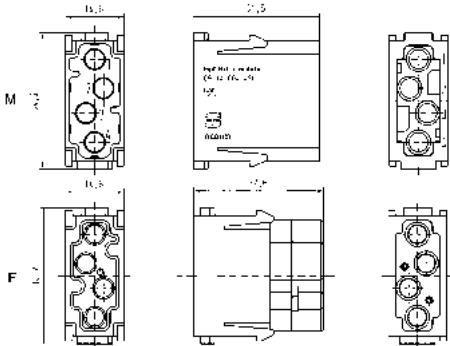
ATTENTION! Guide pins and bushes are prescribed (see chapter 80).

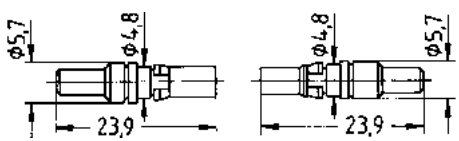
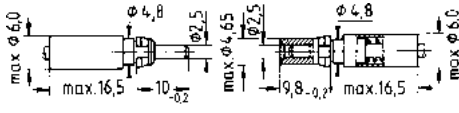
Assembly instructions

for coaxial contact



- ① Stripping length
- ② Solder termination (during soldering max. +300 °C for 2 s)
- ③ Crimp ferrule

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Multi module  Please order contacts separately.	09 14 004 4501	09 14 004 4512	 Contact arrangement (view from termination side)

Identification	Part number		Drawing (dimensions in mm)																																																					
	Male	Female																																																						
DIN 41626 , Coaxial contact, Solder/crimp termination, for cables RG 174 U, 188 AU, 316 U , 50 Ohm, Contact surface: Gold plated	09 14 000 6211	09 14 000 6111																																																						
DIN 41626 , Coaxial contact, Solder/crimp termination, for cables RG 179 BU, 187 AU , 75 Ohm, Contact surface: Gold plated	09 14 000 6221	09 14 000 6121	 <table border="1"><thead><tr><th rowspan="2">Wires</th><th>Shell Ø</th><th>Internal wire Ø</th><th colspan="3">Dämpfung db/100 m bei</th></tr><tr><th>mm</th><th>mm</th><th>100MHz</th><th>200MHz</th><th>800MHz</th></tr></thead><tbody><tr><td>50 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 174 / U</td><td>2.5</td><td>0.48</td><td></td><td></td><td>84</td></tr><tr><td>RG 188 A / U</td><td>2.6</td><td>0.54</td><td>29</td><td>40</td><td></td></tr><tr><td>RG 316 / U</td><td>2.5</td><td>0.54</td><td></td><td>40</td><td></td></tr><tr><td>75 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 179 B / U</td><td>2.55</td><td>0.3</td><td></td><td>41</td><td></td></tr><tr><td>RG 187 A / U</td><td>2.7</td><td>0.3</td><td></td><td>41</td><td></td></tr></tbody></table>	Wires	Shell Ø	Internal wire Ø	Dämpfung db/100 m bei			mm	mm	100MHz	200MHz	800MHz	50 Ω						RG 174 / U	2.5	0.48			84	RG 188 A / U	2.6	0.54	29	40		RG 316 / U	2.5	0.54		40		75 Ω						RG 179 B / U	2.55	0.3		41		RG 187 A / U	2.7	0.3		41	
Wires	Shell Ø	Internal wire Ø	Dämpfung db/100 m bei																																																					
	mm	mm	100MHz	200MHz	800MHz																																																			
50 Ω																																																								
RG 174 / U	2.5	0.48			84																																																			
RG 188 A / U	2.6	0.54	29	40																																																				
RG 316 / U	2.5	0.54		40																																																				
75 Ω																																																								
RG 179 B / U	2.55	0.3		41																																																				
RG 187 A / U	2.7	0.3		41																																																				
DIN 41626 , FO contact, for 1 mm plastic fibre	20 10 001 4211	20 10 001 4221																																																						
DIN 41626 , FO contact, for SI fibre (HCS®) 200/230 µm	20 10 230 4211	20 10 230 4221																																																						
DIN 41626 , FO contact, for GI fibre 50/125 µm for ceramic ferrule 62.5/125 µm	20 10 125 4212	20 10 125 4222																																																						

Number of contacts

4

1,5 A 50 V

Modu-
lar

Features

- Suitable for FOC and coaxial contacts acc. to D-Sub

Technical characteristics

Number of contacts	4
Electrical data acc. to IEC 61984	1,5 A 50 V
Rated current	1.5 A
Rated voltage	50 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω , 75 Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (locking)	Copper alloy
Material (contacts)	Copper alloy, PBFE / PBTP / PI
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

ATTENTION when using coaxial contacts:

Male module 09 14 004 4501 with contacts 09 14 000 62xx or 09 69 28x 5xxx

Female module 09 14 004 4513 with contacts 09 14 000 61xx or 09 69 18x 5xxx

When removing the contacts, the two-piece module can be opened using a 7mm screwdriver. This destroys the module.

ATTENTION! Guide pins and bushes are prescribed (see chapter 80).

Modu-
lar

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
D-Sub , Mixed, Coaxial contact, Crimp/crimp termination, Straight Turned for cables RG 179 BU, 187 AU , 75 Ohm, Contact surface: Gold plated 	09 69 282 5230	09 69 182 5230	
D-Sub , Mixed, Coaxial contact, Solder/crimp termination, Straight Turned for cables RG 174 U, 188 AU, 316 U , 50 Ohm, Contact surface: Gold plated 	09 69 281 5140	09 69 181 5140	
D-Sub , Mixed, Coaxial contact, Solder/crimp termination, Straight Turned for cables RG 178 BU, 196 AU, 404 U , 50 Ohm, Contact surface: Gold plated 	09 69 281 5141	09 69 181 5141	
D-Sub , Mixed, Coaxial contact, Solder/crimp termination, Straight Turned for cables RG 58 CU, 141 AU , 50 Ohm, Contact surface: Gold plated 	09 69 281 5143	09 69 181 5143	
D-Sub , Mixed, Coaxial contact, Solder/crimp termination, Straight Turned for cables RG 179 BU, 187 AU , 75 Ohm, Contact surface: Gold plated 	09 69 281 5230	09 69 181 5230	

Number of contacts

12

1,5 A 50 V

Modu-
lar

Features

- Suitable for FOC and coaxial contacts acc. to EN 41626

Technical characteristics

Number of contacts	12
Electrical data acc. to IEC 61984	1,5 A 50 V
Rated current	1.5 A
Rated voltage	50 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Impedance	50 Ω , 75 Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
DNV GL

Details

ATTENTION! Guide pins and bushes are prescribed (see chapter 80).

ATTENTION when using coaxial contacts:

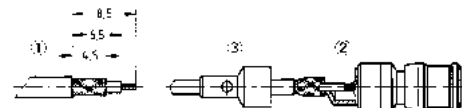
Male module 09 14 004 4501 with contacts 09 14 000 62xx

Female module 09 14 004 4512 with contacts 09 14 000 61xx

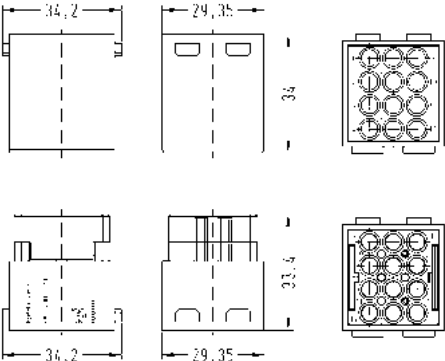
Due to the closed entry design of female insert the upper part has to be removed by screw driver before extracting the contacts.

Assembly instructions

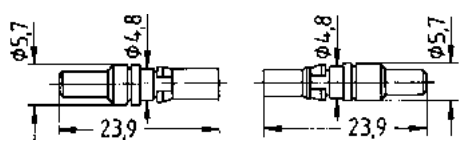
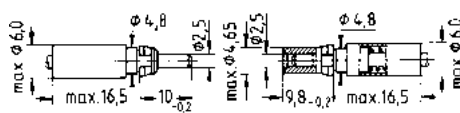
for coaxial contact



- ① Stripping length
- ② Solder termination (during soldering max. +300 °C for 2 s)
- ③ Crimp ferrule

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® Multi module, acc. to DIN 41626  Please order contacts separately.	09 14 012 4501	09 14 012 4512	 Contact arrangement (view from termination side)

Modu-
lar

Identification	Part number		Drawing (dimensions in mm)																																																					
	Male	Female																																																						
DIN 41626 , Coaxial contact, Solder/crimp termination, for cables RG 174 U, 188 AU, 316 U , 50 Ohm, Contact surface: Gold plated	09 14 000 6211	09 14 000 6111																																																						
DIN 41626 , Coaxial contact, Solder/crimp termination, for cables RG 179 BU, 187 AU , 75 Ohm, Contact surface: Gold plated	09 14 000 6221	09 14 000 6121	 <table><tr><th rowspan="2">Wires</th><th>Shell Ø</th><th>Internal wire Ø</th><th colspan="3">Dämpfung db/100 m bei</th></tr><tr><th>mm</th><th>mm</th><th>100MHz</th><th>200MHz</th><th>800MHz</th></tr><tr><td>50 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 174 / U</td><td>2.5</td><td>0.48</td><td></td><td></td><td>84</td></tr><tr><td>RG 188 A / U</td><td>2.6</td><td>0.54</td><td>29</td><td>40</td><td></td></tr><tr><td>RG 316 / U</td><td>2.5</td><td>0.54</td><td></td><td>40</td><td></td></tr><tr><td>75 Ω</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>RG 179 B / U</td><td>2.55</td><td>0.3</td><td></td><td>41</td><td></td></tr><tr><td>RG 187 A / U</td><td>2.7</td><td>0.3</td><td></td><td>41</td><td></td></tr></table>	Wires	Shell Ø	Internal wire Ø	Dämpfung db/100 m bei			mm	mm	100MHz	200MHz	800MHz	50 Ω						RG 174 / U	2.5	0.48			84	RG 188 A / U	2.6	0.54	29	40		RG 316 / U	2.5	0.54		40		75 Ω						RG 179 B / U	2.55	0.3		41		RG 187 A / U	2.7	0.3		41	
Wires	Shell Ø	Internal wire Ø	Dämpfung db/100 m bei																																																					
	mm	mm	100MHz	200MHz	800MHz																																																			
50 Ω																																																								
RG 174 / U	2.5	0.48			84																																																			
RG 188 A / U	2.6	0.54	29	40																																																				
RG 316 / U	2.5	0.54		40																																																				
75 Ω																																																								
RG 179 B / U	2.55	0.3		41																																																				
RG 187 A / U	2.7	0.3		41																																																				
DIN 41626 , FO contact, for 1 mm plastic fibre	20 10 001 4211	20 10 001 4221																																																						
DIN 41626 , FO contact, for SI fibre (HCS®) 200/230 µm	20 10 230 4211	20 10 230 4221																																																						
DIN 41626 , FO contact, for GI fibre 50/125 µm for ceramic ferrule 62.5/125 µm	20 10 125 4212	20 10 125 4222																																																						

Number of contacts

3



Modu-
lar

Features

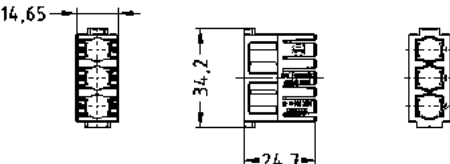
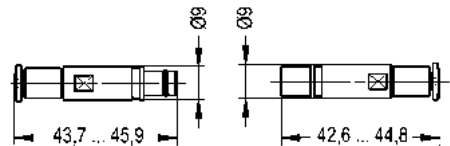
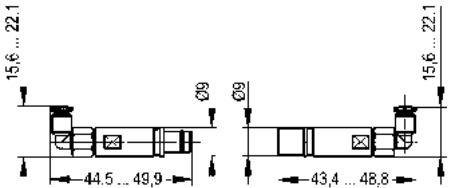
- for the transmission of clean and dry compressed air
- Female contacts with / without shut-off

Technical characteristics

Number of contacts	3
Limiting temperature	-40 ... +85 °C, -20 ... +85 °C
Mating cycles	≥10000
Tube inner diameter	3 mm, 4 mm, 6 mm
Tube outer diameter	3 mm, 4 mm, 6 mm
Material (insert)	Polycarbonate
Colour (insert)	Blue
Material (seal)	NBR
Material (contacts)	Brass
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

IEC 61984
EN 60664-1

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular® , Han® Pneumatic module 	09 14 003 3501	09 14 003 3501	 Contact arrangement (view from mating side)
Please order contacts separately.			
Pneumatic contact, Without shut-off Straight , Tube outer diameter 	3 mm 4 mm 6 mm	09 14 000 6353 09 14 000 6354 09 14 000 6356	09 14 000 6453 09 14 000 6454 09 14 000 6456 
Pneumatic contact, Without shut-off Angled , Tube outer diameter 	3 mm 4 mm 6 mm	09 14 000 7353 09 14 000 7354 09 14 000 7356	09 14 000 7453 09 14 000 7454 09 14 000 7456 

Modu-
lar

Identification		Part number		Drawing (dimensions in mm)
		Male	Female	
Pneumatic contact, With shut-off Straight , Tube outer diameter	3 mm		09 14 000 6463	
	4 mm		09 14 000 6464	
	6 mm		09 14 000 6466	
Pneumatic contact, With shut-off Angled , Tube outer diameter	3 mm		09 14 000 7463	
	4 mm		09 14 000 7464	
	6 mm		09 14 000 7466	
Pneumatic contact, Without shut-off Straight , Tube inner diameter	3 mm	09 14 000 6303	09 14 000 6403	
	4 mm	09 14 000 6304	09 14 000 6404	
	6 mm	09 14 000 6306	09 14 000 6406	
Pneumatic contact, With shut-off Straight , Tube inner diameter	3 mm		09 14 000 6413	
	4 mm		09 14 000 6414	
	6 mm		09 14 000 6416	

Features

- Suitable for HARTING SC contacts
- for GI-Fibre 50 - 62,5 / 125µm
- Insertion loss < 0.5 dB

Technical characteristics

Number of contacts	4
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

UL 1977 ECBT2.E235076
DNV GL

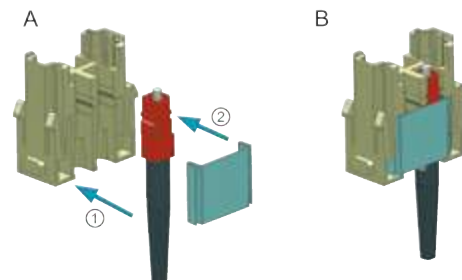
Details

The male and female modules each use the same contacts.
Guide pins and bushes are recommended (see chapter 80).

Details

Assembly instructions

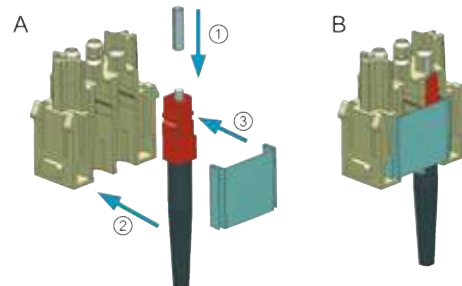
Male module



- A) Assemble the SC contact
Push the SC contact from the side into the relevant insert ①
Push the fixing plate from the side over the contacts ②
B) SC contact fixed in the module

Assembly instructions

Female module



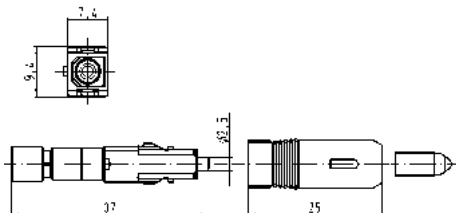
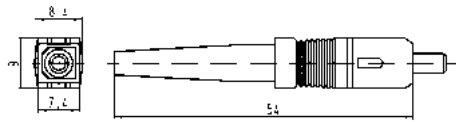
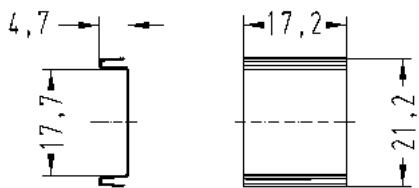
- A) Assemble the SC contact
Push the centering ferrule (included in delivery) on the SC contact ①
Push the SC contact from the side into the relevant insert ②
Push the fixing plate from the side over the contacts ③
B) SC contact fixed in the module

Number of contacts

4

Modu-
lar

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® SC module Please order contacts separately.	09 14 004 4701	09 14 004 4712	M F 34,2 14,6 3,4 34,2 14,6 3,4 3 2 4 1 3 2 4 1 Contact arrangement (view from termination side)
Han-Modular®, Han® SC module, with ceramic ferrule 62.5/125 µm Please order contacts separately.		09 14 004 4711	M F 34,2 14,6 3,4 34,2 14,6 3,4 3 2 4 1 3 2 4 1 Contact arrangement (view from termination side)
Han-Modular®, Han® SC module, with metal ferrule Please order contacts separately.		09 14 004 4713	
SC contact, for 1 mm plastic fibre Crimp termination	20 10 001 5211		

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
SC contact, for 1 mm plastic fibre Fast termination 	20 10 001 5217		
SC contact, for GI fibre 50/125 µm for ceramic ferrule 62.5/125 µm 	20 10 125 5211		
SC contact, for SI fibre (HCS®) 200/230 µm 	20 10 230 5211		
Han-Modular®, Fixing plate, for SC module 	09 14 000 9965	09 14 000 9965	

Modu-
lar

Features

- Suitable for HARTING LC contacts
- for GI-Fibre 50 - 62.5 / 125 µm and for singlemode fibre

Technical characteristics

Number of contacts	6
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6b: Lead as an alloying element in aluminium containing up to 0,4 % lead by weight

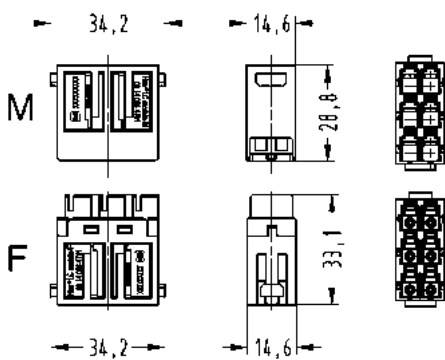
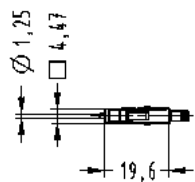
Details

The male and female modules each use the same contacts.

ATTENTION! Guide pins and bushes are prescribed (see chapter 80).

6

Modu-
lar

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular® , Han® LC module  Please order contacts separately.	09 14 006 4701	09 14 006 4711	 Contact arrangement (view from termination side)
LC contact, Singlemode for wire gauge up to 2 mm 	20 10 125 8221		
LC contact, Singlemode for wire gauge up to 3 mm 	20 10 125 8220		
LC contact, Multimode for wire gauge up to 2 mm 	20 10 125 8212		
LC contact, Multimode for wire gauge up to 3 mm 	20 10 125 8211		

Modu-
lar

Features

- Single module with standard shielded RJ45 plug and jack
- The RJ45 inserts are protected by a reliable plastic insulator
- Patch cables are assembled/removed without tools
- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward
- Fast Ethernet
- Full Gigabit Ethernet
- Non blocking
- Support of Jumbo-Frames (10 kBytes)
- Energy Efficient Ethernet acc. to IEEE 802.3az

Technical characteristics

Total number of ports	4
Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +125 °C
Operating temperature	0 ... +60 °C
Storage temperature	-40 ... +85 °C
Mating cycles	≥ 500
Degree of protection acc. to IEC 60529	IP30, when mated
Nominal voltage	24 V DC
Transmission characteristics	Cat. 5, Class D up to 100 MHz
Data rate	10 Mbit/s, 100 Mbit/s, 1 Gbit/s
Diagnostic display	Connection (Link), Data transfer (Act), Data transfer rate, Power connection
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
 IEC 61984
 DNV GL
 EN 55022
 Radio disturbance characteristics
 EN 61000-4-2
 Electrostatic discharge (ESD)
 EN 61000-4-3
 Electromagnetic field
 EN 61000-4-4
 Rapid transients (burst)
 EN 61000-4-5
 Surge voltages
 EN 61000-4-6
 conducted disturbances
 EN 61000-6-4
 emission standard
 IEC 60068-2-6
 Vibration (sinusoidal)
 IEC 60068-2-27
 Shock
 IEEE 802.3



Modu-
lar

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular®, Han® RJ45 module, Single module	09 14 001 4623		
Han-Modular®, Han® RJ45 module, Adapter, for patch cable	09 14 000 9966		
Han-Modular®, Han-Smart, Switch US4		09 80 113 0400	

Number of contacts

7



Features

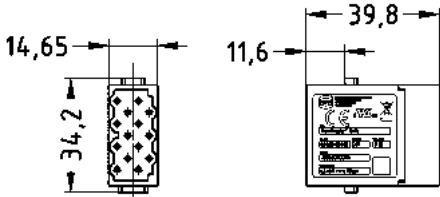
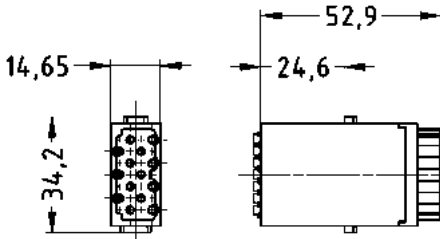
- Module for identifying industrial components
- Programming via the CANopen communication protocol
- Automatically detects baud rate
- Node ID configuration using LSS, acc. to DS305
- Status and diagnostics display
- Default Node ID: 127

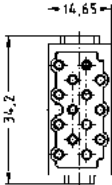
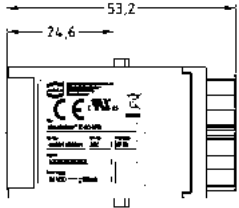
Technical characteristics

Number of contacts	7
Operating temperature	-40 ... +70 °C
Storage temperature	-40 ... +70 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP30
Nominal voltage	24 V DC
Power consumption	<5 W
Memory	10 MB Flash
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Polycarbonate
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

DIN EN 60721-3-3
DIN EN 50102
EN 61000-4-2
Electrostatic discharge (ESD)
EN 61000-4-3
Electromagnetic field
EN 61000-4-4
Rapid transients (burst)
EN 61000-4-5
Surge voltages
EN 61000-4-6
conducted disturbances

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular® , Han-Smart, ID CAN, Memory module, Contact surface: Gold plated	09 80 015 0100		
Han-Modular® , Han-Smart, ID CAN, Network module, Cage-clamp termination, Contact surface: Gold plated		09 80 115 0200	

Identification	Part number		Drawing (dimensions in mm)
	Male	Female	
Han-Modular® , Update module, to update the male module 		09 80 115 0201	 

Modu-
lar

Number of contacts

5

Modu-
lar



Features

- Surge protection for two pairs of balanced signals
- Protects symmetric signals interfaces with electrical isolation

Technical characteristics

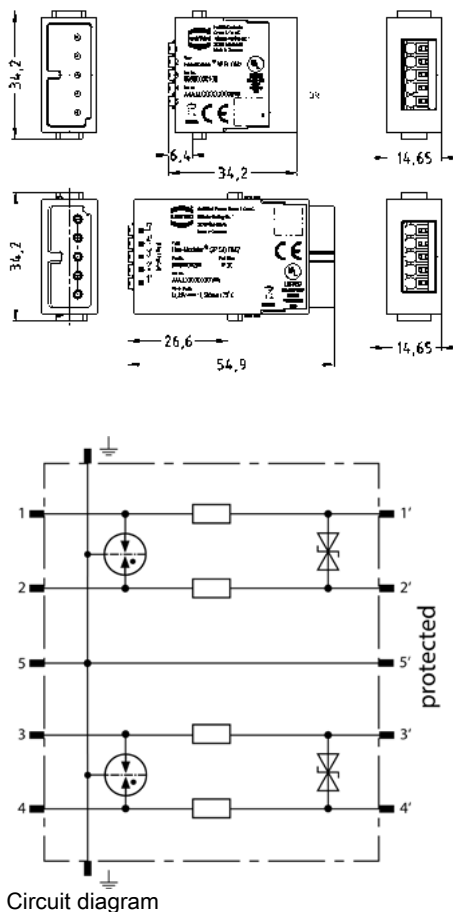
Number of contacts	5
Operating temperature	-40 ... +85 °C
Storage temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP20
Nominal current	0.5 A
Nominal voltage	24 V DC, 24 V AC
Material (insert)	Polyamide
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0

Details

The surge protection module protects up to 2 pairs of balanced signal interfaces with electrical isolation against lightning strikes or overvoltage events.

Preferred field of application is the protection of analogue signal interfaces like for 0/4-20 mA or differential signals.

The equipotential bonding will be led via the earthed hinged frame of the Han-Modular® system.

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han-Smart, Han-Smart Surge protection module, Two channels, Differential mode without common reference potential, Push-in-spring-cage termination 	0,25 ... 1,5	09 80 000 0100	09 80 003 0200	 The drawing includes two views of the module with dimensions: 34,2 mm height, 6,4 mm width, 34,2 mm length, 14,65 mm width, 26,6 mm length, 54,9 mm length, and 14,65 mm width. Below the views is a circuit diagram showing two channels of protection. Each channel consists of a surge protector (represented by a circle with a lightning bolt) and a diode (represented by a triangle with a line). The terminals are labeled 1, 2, 5, 3, 4 on the left and 1', 2', 5', 3', 4' on the right. The ground symbol is shown at the top and bottom. The text 'protected' is written vertically on the right side of the circuit diagram. Circuit diagram

Number of contacts

5

Modu-
lar



Features

- Surge protection for four single lines
- Protects signals with common reference potential

Technical characteristics

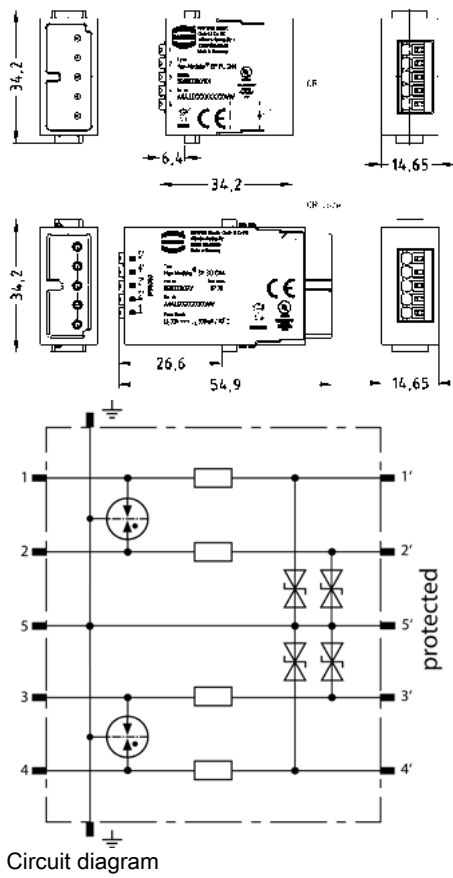
Number of contacts	5
Operating temperature	-40 ... +85 °C
Storage temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP20
Nominal current	0.5 A
Nominal voltage	24 V DC
Material (insert)	Polyamide
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0

Details

The surge protection module protects up to 4 single lines with common reference potential and unbalanced interfaces against lightning strikes or overvoltages.

Preferred field of application is the protection of digital signals up to 24 VDC with a max load of 0.5 A / line.

The equipotential bonding will be led via the earthed hinged frame of the Han-Modular® system.

Identification	Conductor cross-section (mm ²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han-Smart, Han-Smart Surge protection module, Four channels, Common reference potential, Push-in-spring-cage termination 	0,25 ... 1,5	09 80 000 0101	09 80 003 0201	 Circuit diagram

Features

- Robust housing
- Compact design saves space
- Modular structure increases flexibility
- Simple and quick assembly
- Two-part hood

Technical characteristics

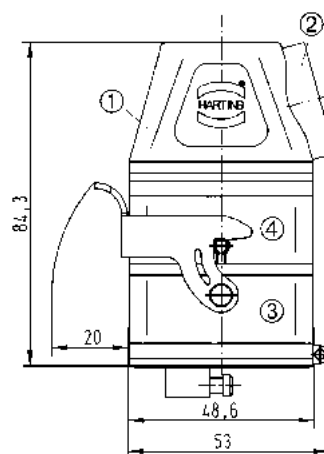
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65, in locked position
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Nickel plated
Material (seal)	NBR
Material (locking)	Stainless steel
Material (accessories)	Metal
RoHS	compliant

Details

Conductor cross-section PE 0.5 ... 10 mm²

Details

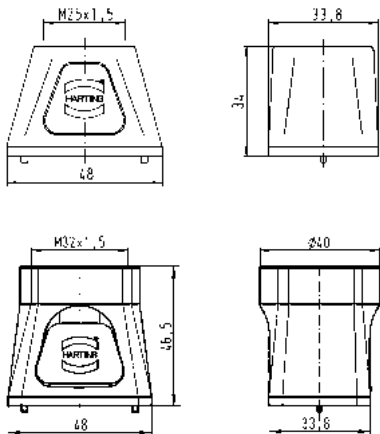
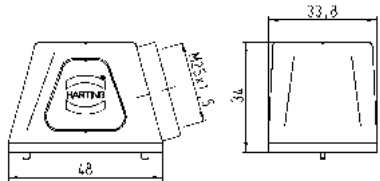
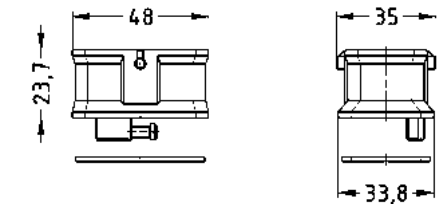
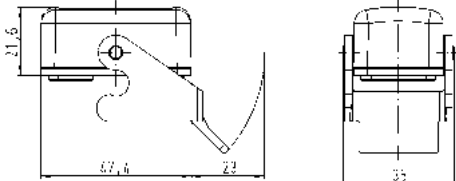
Conductor cross-section 10 mm² only with ferrule crimping tool 09 99 000 0374



- ① Hood with side entry
- ② Cable entry M25
- ③ Bulkhead mounted housing with locking lever
- ④ Carrier hood

Single locking lever

Modu-
lar

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Modular® Compact , Hoods, Top entry, Pack contents: 4 screws are included within the delivery 	1x M25 1x M32	19 14 001 0401 19 14 001 0402	
Han-Modular® Compact , Hoods, Side entry, Pack contents: 4 screws are included within the delivery 	1x M25	19 14 001 0501	
Han-Modular® Compact , Carrier hood 		09 14 001 0311	
Han-Modular® Compact , Protection cover, for carrier hoods, Thermoplastic 		09 14 001 5402	



Single locking lever

Modu-
lar

Identification

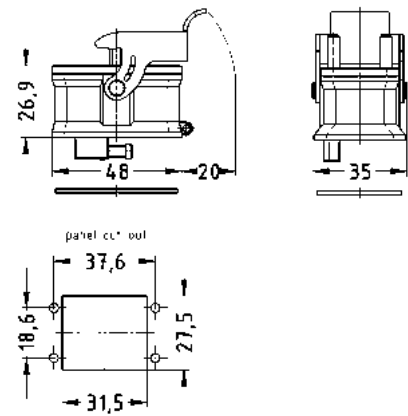
Han-Modular® Compact ,
Bulkhead mounted housings



Part number

09 14 001 0301

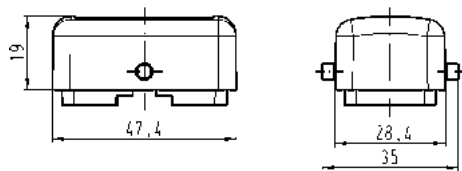
Drawing
(dimensions in mm)



Han-Modular® Compact ,
Protection cover,
for bulkhead mounted housings,
Thermoplastic



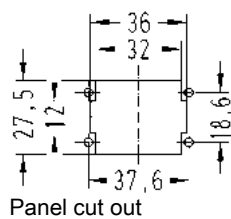
09 14 001 5401

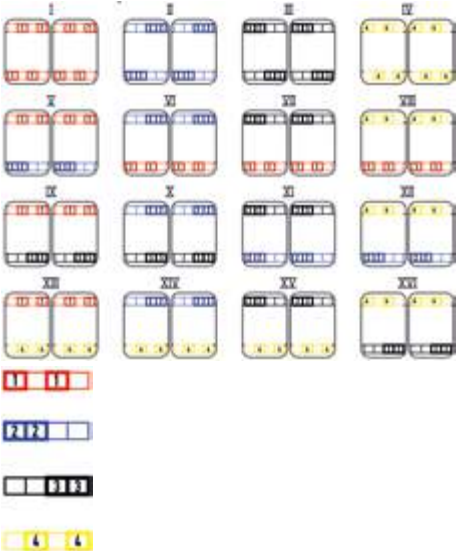


Fixing bracket



09 14 000 9947



Technical characteristics		Technical characteristics	
Material (accessories)	Polycarbonate	Colour (accessories) RoHS	Red, Blue, Black, Yellow compliant
Identification		Part number	Drawing (dimensions in mm)
Coding element, Red		09 14 000 9971	
Coding element, Blue		09 14 000 9972	
Coding element, Black		09 14 000 9973	
Coding element, Yellow		09 14 000 9974	

Features

- Robust housing
- Compact design saves space
- Modular structure increases flexibility
- Simple and quick assembly
- Two-part hood

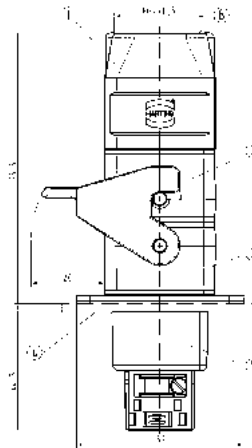
Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Aluminium die-cast, Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material (accessories)	Zinc die-cast
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Details

Conductor cross-section PE 0.5 ... 10 mm²

Conductor cross-section 10 mm² only with ferrule crimping tool 09 99 000 0374



- ① Hood with top entry
- ② Carrier hood
- ③ Bulkhead mounted housing with locking lever
- ④ Switch board panel
- ⑤ Panel feed through housings
- ⑥ Cable entry

Single locking lever



Modular

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Modular® Twin , Hoods, Top entry	1x M20 1x M25 1x M32	19 14 002 0400 19 14 002 0401 19 14 002 0402	
Han-Modular® Twin , Hoods, Side entry	1x M25	19 14 002 0501	
Han-Modular® Twin , Carrier hood		09 14 002 0311	
Han-Modular® Twin , Angled housing, Zinc die-cast	1x M32	09 14 002 0950 19 14 002 0952	
Shielded frame		09 14 000 9924	

Single locking lever



Identification

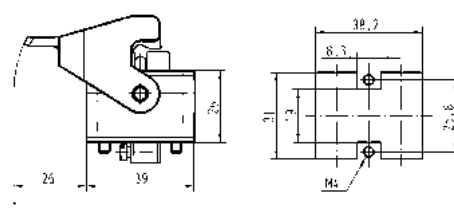
Part number

Drawing
(dimensions in mm)

Han-Modular® Twin ,
Bulkhead mounted housings,
Han-Easy Lock®



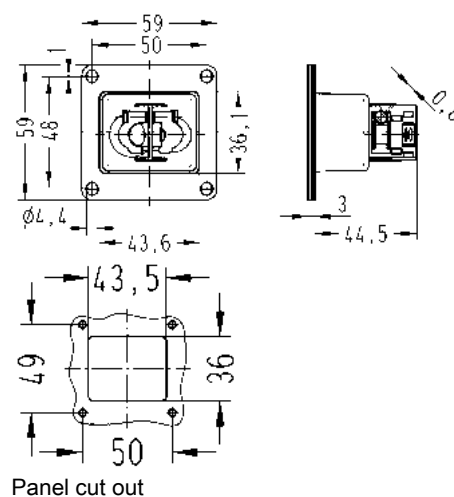
09 14 002 0301



Han-Modular® Twin ,
Panel feed through housing,
Zinc die-cast



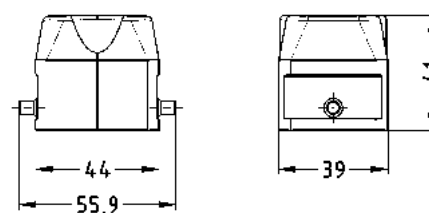
09 14 000 9928



Han-Modular® Twin ,
Protection cover,
for bulkhead mounted housings,
Metal



09 14 002 5401



Features

- Suitable for all Han-Modular® single modules
- The variant with PE connection uses pin 1 of the module as PE
- Slim, space saving construction type
- Low cost plastic hoods and housings

Technical characteristics

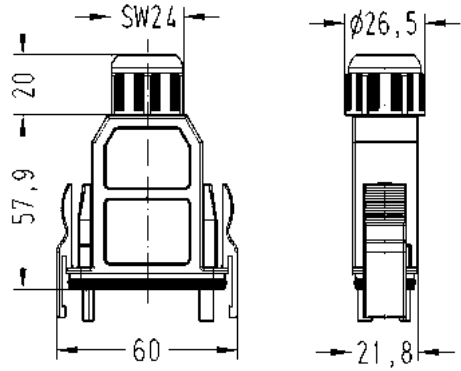
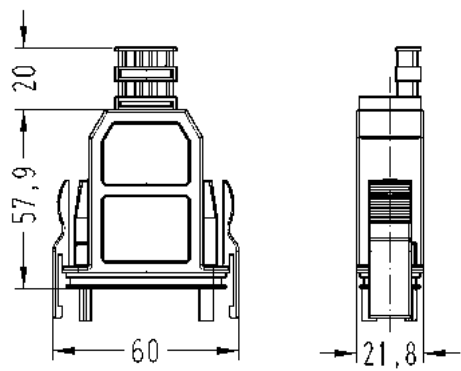
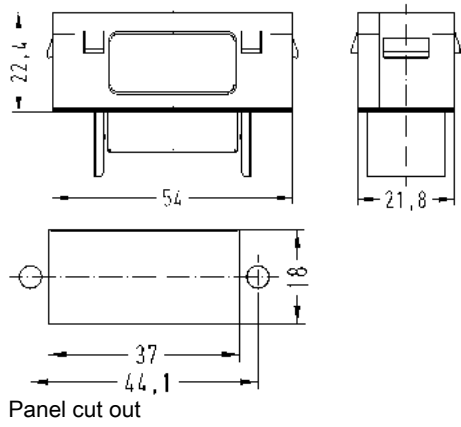
Limiting temperature	-40 ... +85 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65, IP20
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 7032 (pebble grey)
Material (seal)	NBR
Material (accessories)	Polycarbonate
Material flammability class acc. to UL 94	V-0
RoHS	compliant

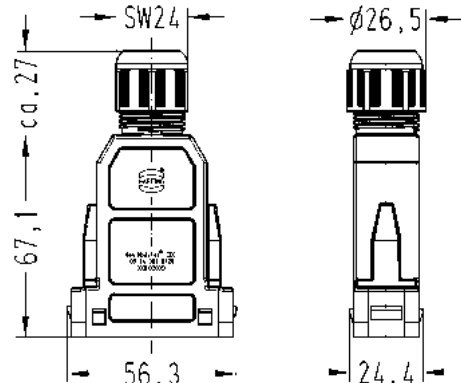
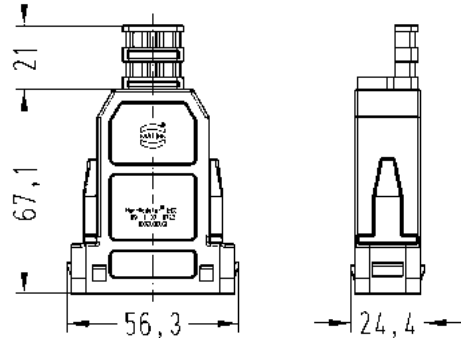
Specifications and approvals

EN 60664-1
IEC 61984

Snap-in latches

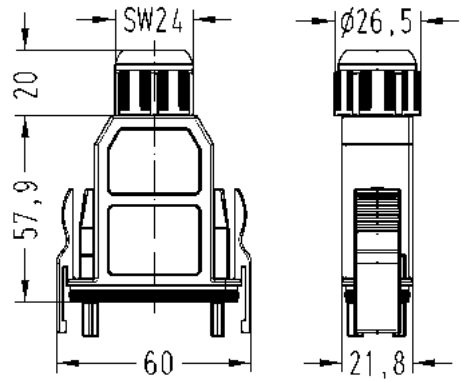
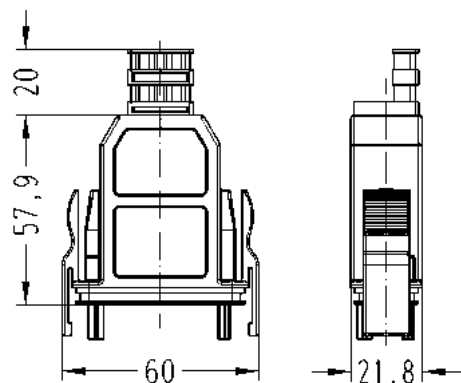
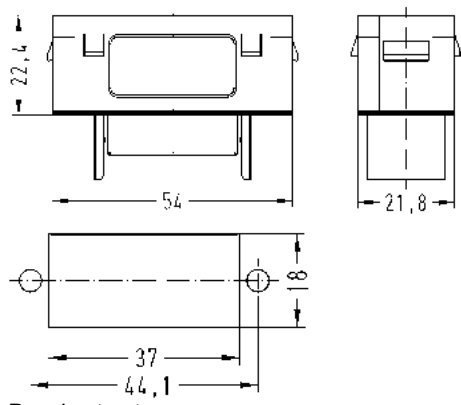
Modular

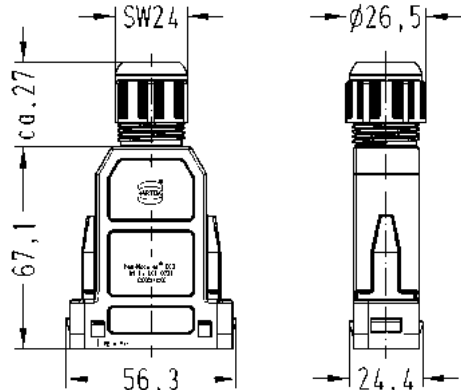
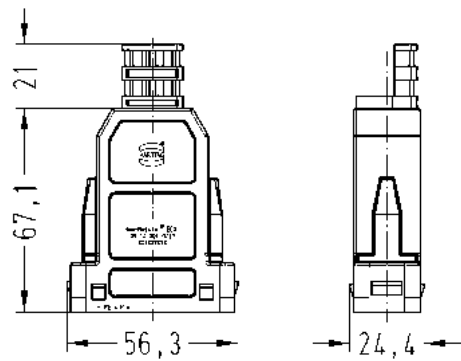
Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO , Hoods, With integrated cable gland, Top entry, IP65 	1x Integrated	6 ... 13	09 14 001 0420	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO , Hoods, Top entry, IP20 	1x	3 ... 14,5	09 14 001 0422	
Han-Modular® ECO , Bulkhead mounted housings 			09 14 001 0320	 Panel cut out

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO , Cable to cable housing, With integrated cable gland, Top entry, IP65 	1x Integrated	6 ... 13	09 14 001 0720	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO , Cable to cable housing, Top entry, IP20 	1x	3 ... 14,5	09 14 001 0722	
Han-Modular® , Coding element, Pack contents: 8 pieces per frame 			09 14 000 9929	

Snap-in latches

Modu-
lar

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO , Hoods, With PE identification (pin 1 = PE), With integrated cable gland, Top entry, IP65 	1x Integrated	6 ... 13	09 14 001 0421	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO , Hoods, With PE identification (pin 1 = PE), Top entry, IP20 	1x	3 ... 14,5	09 14 001 0423	
Han-Modular® ECO , Bulkhead mounted housings, With PE identification (pin 1 = PE) 			09 14 001 0321	 Panel cut out

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han-Modular® ECO , Cable to cable housing, With PE identification (pin 1 = PE), With integrated cable gland, Top entry, IP65 	1x Integrated	6 ... 13	09 14 001 0721	 Tightening torque Cable gland 3 Nm
Han-Modular® ECO , Cable to cable housing, With PE identification (pin 1 = PE), Top entry, IP20 	1x	3 ... 14,5	09 14 001 0723	
Han-Modular® , Coding element, Pack contents: 8 pieces per frame 			09 14 000 9929	

Modu-
lar

Features

- Blind mating connector system for drawer systems
- Highest flexibility due to a product range of over 100 connector modules
- Direct panel mounting without hoods and housings
- Leading centring system compensates for tolerances of +/- 2 mm
- Compatible with HMC components for 10,000 mating cycles

Technical characteristics

Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Mating cycles with other HMC components	≥10000
Degree of protection acc. to IEC 60529	IP20
Lock-in range	±4 mm
Material (frames)	Polycarbonate
Material (accessories)	Zinc die-cast
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984

Details

The docking frame has no PE contact as it is not required in many drawer system applications.

Identification

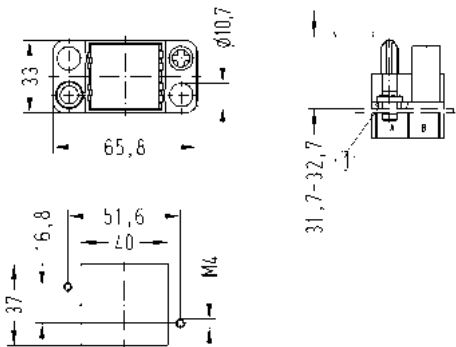
Han-Modular®,
Docking frame,
Float mount,
for 2 modules,
A ... B



Part number

09 14 006 1701

Drawing
(dimensions in mm)



① Floating tolerance ± 2 mm
Panel cut out

Modu-
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Modu-
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Identification

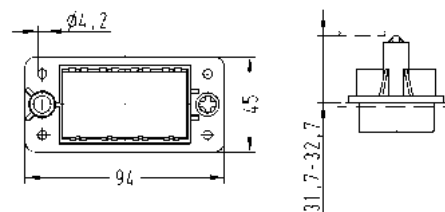
Part number

Drawing (dimensions in mm)

Han-Modular®,
Docking frame,
Fixed,
for 4 modules,
a ... d



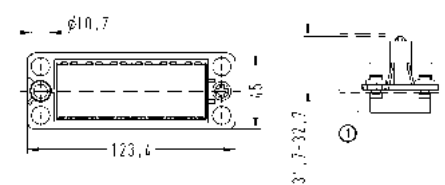
09 14 016 1711



Han-Modular®,
Docking frame,
Float mount,
for 6 modules,
A ... F



09 14 024 1701

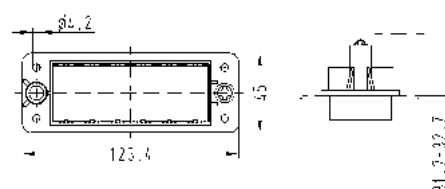


① Floating tolerance ± 2 mm

Han-Modular®,
Docking frame,
Fixed,
for 6 modules,
a ... f



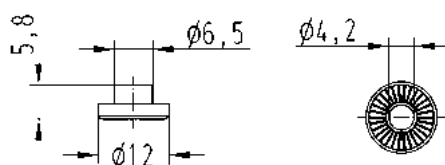
09 14 024 1711



Panel cut out

Han-Modular®,
Float washer
To enable the frame to be float mounted using standard M4 fixing
screws

09 14 000 9936



Features

- Blind mating connector system for drawer systems with test position
- Direct panel mounting without hoods and housings
- Solid leading guide pins and bushes
- Suitable for many modules of the Han-Modular® product series (Please contact your HARTING salesman for support to find your specific combination.)

Technical characteristics

Limiting temperature	-5 ... +55 °C
Mating cycles	≥500
Lock-in range	±4 mm
Material (frames)	Polycarbonate
Material (accessories)	Zinc die-cast
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Specifications and approvals

EN 60664-1
IEC 61984

Details

Due the plastic material used in the docking frame without PE, the panel will need to be grounded separately.

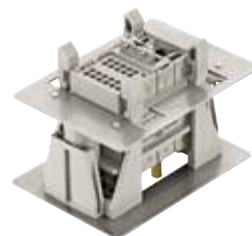
Details



Position unmated
The drawer system and the modules are not mated.

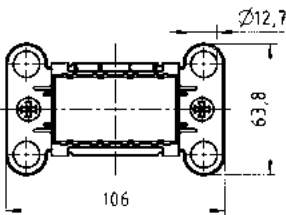
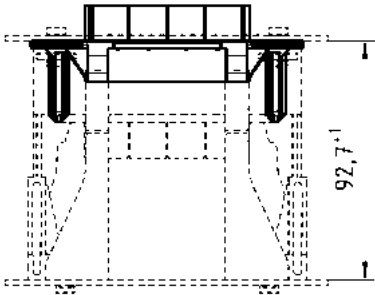
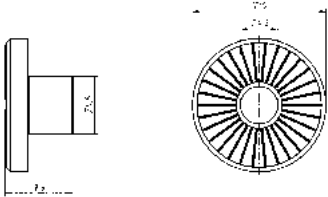
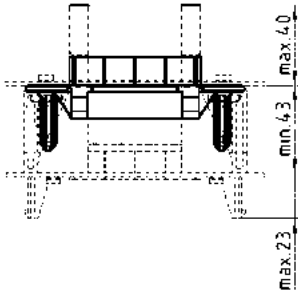


Test position
The drawer system is in the so called test position – the modules are mated.



Working position
The drawer system is pushed completely into the rack – the modules remain mated.

Modu-
lar

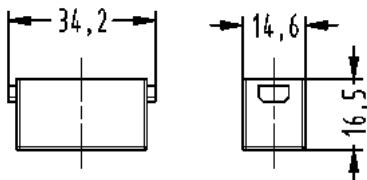
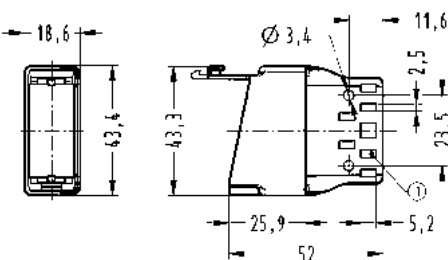
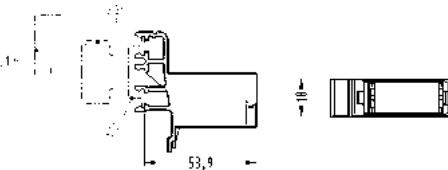
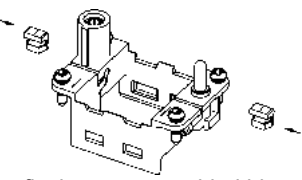
Identification	Part number	Drawing (dimensions in mm)
Sliding frame, with test position, for 4 modules, Float mount, A ... D 	09 14 016 1721	
Sliding frame, with test position, for 4 modules, Movable side, a ... d 	09 14 016 1731	
Han-Modular®, Float washer To enable the frame to be float mounted using standard M4 fixing screws	09 14 000 9986	
Rail guide, for sliding frames for movable side 	09 14 000 9987	

Technical characteristics

Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (locking)	Polycarbonate

Technical characteristics

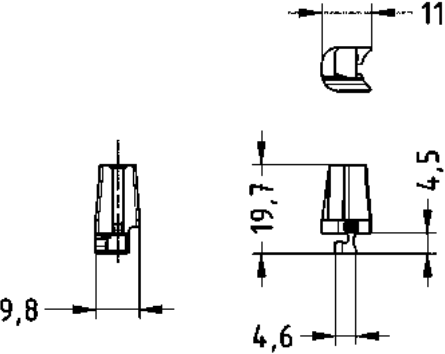
Material (accessories)	Thermoplastic
Material flammability class acc. to UL 94	V-0
RoHS	compliant

Identification	Part number	Drawing (dimensions in mm)
Han-Modular®, Han® Dummy module 	09 14 000 9950	
Han-Modular®, Module locking system, With strain relief, Pack contents: 1 module locking system 	09 14 000 0312	 ① For cable ties with max. 5 mm width
Han-Modular®, Module locking system, for rail, Pack contents: 1 module locking system 	09 14 000 0313	 ① G-rail IEC 60715-G32 ② Rail IEC 60715-35 x 7.5 with 1 mm thickness or -35 x 15 with 1.5 mm thickness ③ C-rail IEC 60715-C30
Han-Modular®, Fixing, for Han-Modular® hinged frames, Pack contents: 20 pieces per frame 	09 14 000 9960	 to fix the pre-assembled hinged frames

Modu-
lar



Features	Technical characteristics
• Applicable as a guiding element for electrical power and signal modules in the Han-Modular® hinged frame plus • Considerable time saving assembly compared to conventional guide pins / bushes • Colour coding with 6 different colours	Limiting temperature-40 ... +125 °C Material (accessories)Polycarbonate Colour (accessories)Grey, Red, Blue, Black, Yellow, Green Material flammability class acc. to UL 94V-0

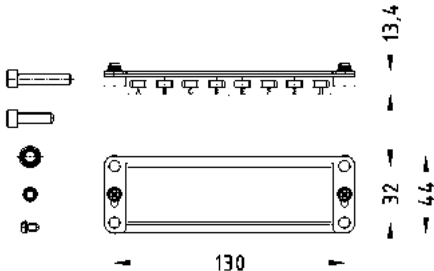
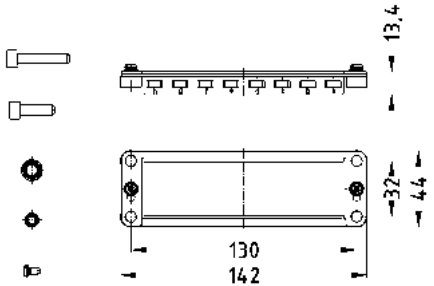
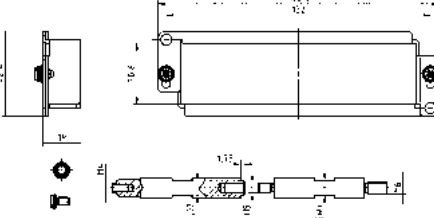
Identification		Part number	Drawing (dimensions in mm)
Han-Modular® , Guide element, for Han-Modular® hinged frames	Black	09 14 000 9993	
	Blue	09 14 000 9992	
	Green	09 14 000 9995	
	Grey	09 14 000 9990	
	Red	09 14 000 9991	
	Yellow	09 14 000 9994	

Technical characteristics

Material (accessories) Stainless steel

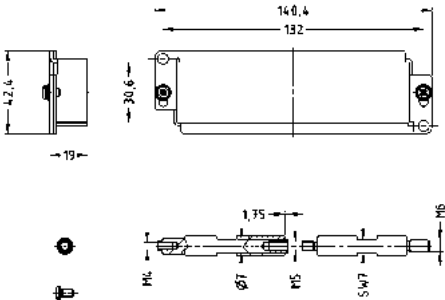
Technical characteristics

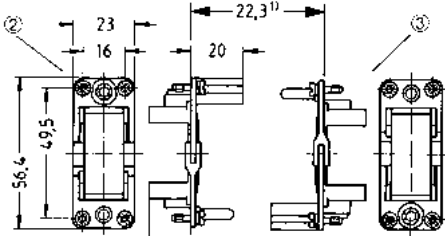
RoHS compliant

Identification	Part number	Drawing (dimensions in mm)
Han® HPR , Frame, for up to 8 single modules, A ... H, Pack contents: 2x M4 screw, 2x washer SK S4, 4x cheese-head screw M6 x 20, 4x cheese-head screw M6 x 30, 4x washer SK S6 	09 11 000 9935	 Tightening torque Fixing screws M6: 10 Nm Tightening torque Screws M4: 1.5 Nm
Han® HPR , Frame, for up to 8 single modules, a ... h, Pack contents: 2x M4 screw, 2x washer SK S4, 4x cheese-head screw M6 x 20, 4x cheese-head screw M6 x 30, 4x washer SK S6 	09 11 000 9936	 Tightening torque Fixing screws M6: 10 Nm Tightening torque Screws M4: 1.5 Nm
Han® HPR EasyCon , Frame, for up to 8 single modules, A ... H, Pack contents: 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 4x M4 screw, 4x washer SK S4 	09 40 024 9931	 Tightening torque Distance bolt 6 Nm Tightening torque Fixing screws M4: 1.5 Nm Tightening torque M4: 1.5 Nm

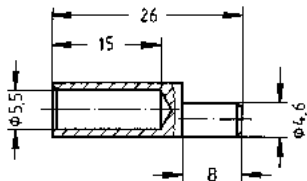


Modu-
lar

Identification	Part number	Drawing (dimensions in mm)
Han® HPR EasyCon , Frame, for up to 8 single modules, a ... h, Pack contents: 2x M4/M5 distance bolts (A/F 7), 2x M5/M6 distance bolts (A/F 7), 4x M4 screw, 4x washer SK S4 	09 40 024 9932	 Tightening torque Distance bolt 6 Nm Tightening torque Fixing screws M4: 1.5 Nm Tightening torque M4: 1.5 Nm

Technical characteristics		Details	
Material (accessories)	Zinc die-cast	PE connection (0.75 ... 2.5 mm²) with cable shoe	
RoHS	compliant with exemption		
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight		
Identification	Part number	Drawing (dimensions in mm)	
Frame, for 1 module, In housing Han® 10 A	09 14 000 0304	 ① Distance max. 23.5 mm ② Hood ③ Housing	

Modu-
lar

Technical characteristics		Technical characteristics	
Material (contacts)Copper alloy		RoHScompliant	
Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Modular® , Cable shoe, for PE extension  for hoods/housings high construction only	16	09 14 000 9912	 Please use pressing tools for non-insulated cable shoes following DIN 46230 with 16 mm² range (eg. K25, co. Klauke)

Han® 3 A Standard Hoods/Housings

Metal hoods/housings for industrial applications

Material	zinc die-cast
Colour	RAL 7037 (grey)
Surface	powder-coated
Locking element	steel, zinc-plated
Lever type	lever, metal
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP44 IP67 is achieved with seal screw 09 20 000 9918

Han-Drive® Housings for motor applications

Material	aluminium die-cast
Colour	non coloured / RAL 7037 (grey)
Surface	electrical conductive / powder-coated / unpainted
Locking element	stainless steel
Lever type	Han-Easy Lock®
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65

Han® 3 A Hoods/Housings

Plastic hoods/housings for industrial applications

Material	polycarbonate
Colour	RAL 7032 (light grey) / RAL 9005 (black)
Locking element	polyamide
Lever type	lever, plastic
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP44 IP67 is achieved with seal screw 09 20 000 9918

Han® 3 M Hoods/Housings

Hoods/Housings for higher environmental requirements

Material	zinc die-cast
Colour	RAL 9005 (black)
Surface	- Top coat epoxy powder paint
Locking element	stainless steel
Lever type	lever, metal
Hoods/Housings seal	FPM
Limiting temperatures	-40 °C ... +125 °C
Corrosion resistance	ASTM B117-09 (500 h)
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP44 IP67 is achieved with seal screw 09 20 000 9918

Han® Standard Hoods/Housings

Metal hoods/housings for industrial applications

Material	aluminium die-cast
Colour	RAL 7037 (grey)
Surface	powder-coated
Locking element	stainless steel
Lever type	Han-Easy Lock®
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65

Han® M Hoods/Housings

Hoods/Housings for higher environmental requirements

Material	aluminium die-cast
Colour	RAL 9005 (black)
Surface	- Top coat epoxy powder paint
Locking element	stainless steel
Lever type	lever, metal
Hoods/Housings seal	FPM
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Corrosion resistance	ASTM B117-09 (500 h)
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65

Han® 3 EMC Hoods/Housings Hoods/Housings for higher EMC requirements

Material	zinc die-cast
Colour	non coloured
Surface	electrical conductive
Locking element	steel, zinc-plated
Lever type	lever, metal
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP44 IP67 is achieved with seal screw 09 20 000 9918

Han-INOX® Hoods/Housings for higher corrosion requirements

Material	stainless steel
Colour	non coloured
Surface	electrical conductive
Locking element	stainless steel
Lever type	lever, metal
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65 IP44 IP67 is achieved with seal screw 09 20 000 9918
- Size Han® 3 A	

Han® EMC Hoods/Housings Hoods/Housings for higher EMC requirements

Material	aluminium die-cast
Colour	non coloured
Surface	electrical conductive
Locking element	
- Screw locking	M5
- Material	stainless steel
- Tightening torque	3 Nm
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65

Han® 3 HPR Hoods/Housings Hoods/Housings for harsh environmental requirements

Material	zinc die-cast
Colour	RAL 9005 (black)
Surface	
- Top coat	epoxy powder paint / chromated
Locking element	
- Screw locking	M4
- Material	stainless steel
- Tightening torque	2 Nm
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Corrosion resistance	ASTM B117-09 (500 h)
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65 / IP68 / IP69K

Attention

If inserts of the series Han® Q and Han A® are used, the seal on the insert must be removed. The sealed screw of the insulation body must be replaced by the sealed screw of the hood.

For angled bulkhead or surface mounted housings with through holes in the mounting flange the user must make sure, that the fixing screws seal to the inner part of the housing.

Han® EMC/B Hoods/Housings Hoods/Housings for higher EMC requirements

Material	
- Hoods/Housings	aluminium die-cast
- shielded frames	zinc die-cast alloy
Colour	non coloured
Surface	
- Hoods/Housings	electrical conductive
- shielded frames	electrical conductive
Locking element	stainless steel
Lever type	Han-Easy Lock®
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65

Han® HPR Hoods/Housings Hoods/Housings for harsh environmental requirements

Material	aluminium die-cast, corrosion resistant
Colour	RAL 9005 (black)
Surface	
- Top coat	epoxy powder paint
Locking element	
- Screw locking	M6
- Material	stainless steel
- Tightening torque	4 Nm
- Toggle locking	
- Material	stainless steel
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Approval acc. to UL 50	NEMA Type 4/4X/12
Corrosion resistance	ASTM B117-09 (500 h)
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP65 / IP68 / IP69K

Features

- Standard Hoods/housings for industrial applications
- Slim, space saving construction type

Technical characteristics

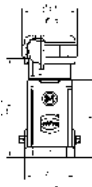
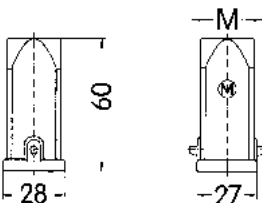
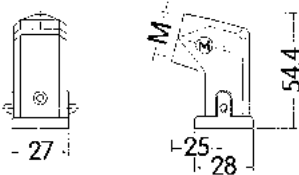
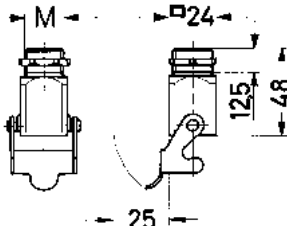
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP44, IP65 / IP67, with seal screw 09 20 000 9918
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Steel
Surface (locking)	Zinc plated
RoHS	compliant with exemption, compliant
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight, 6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight

Specifications and approvals

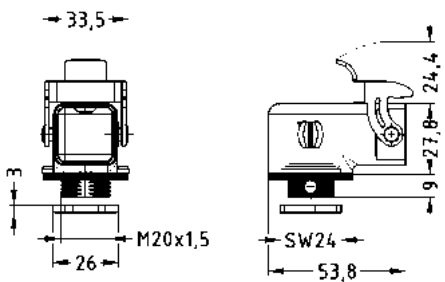
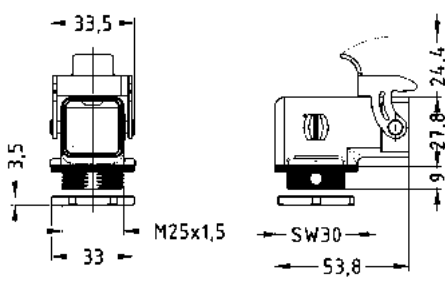
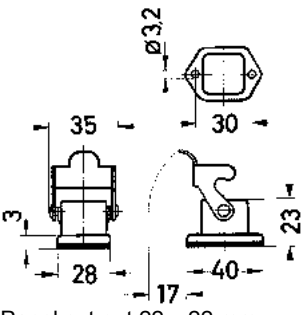
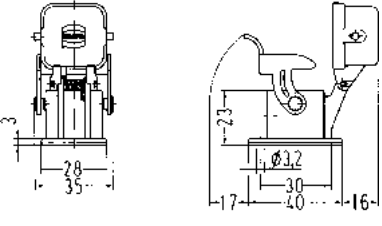
DNV GL

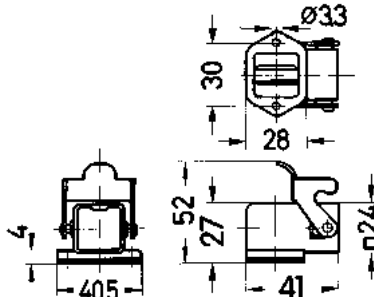
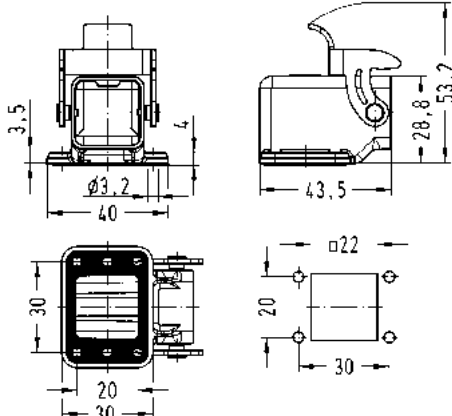
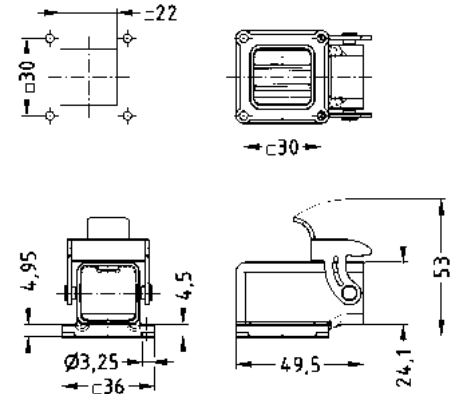
Standard Hoods/housings for industrial applications
Single locking lever

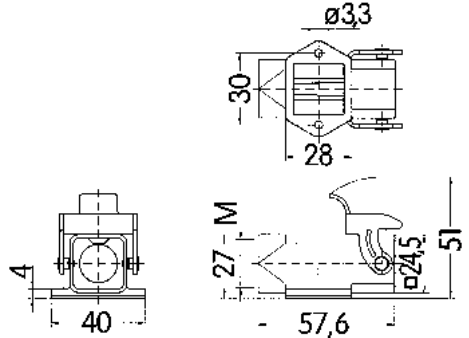
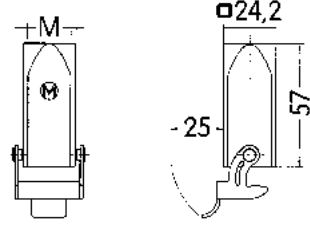
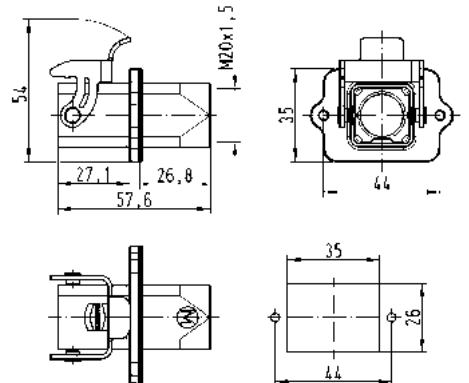
Housings

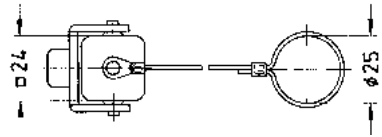
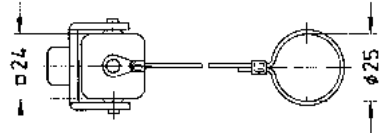
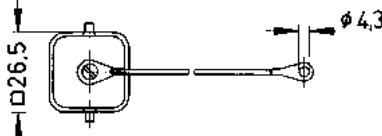
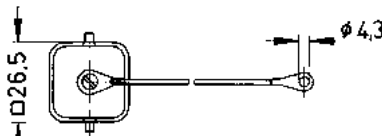
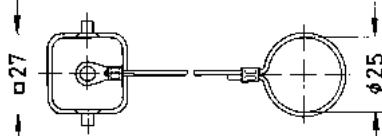
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Han A®, Hoods, With integrated cable gland, Top entry 	1x Integrated 1x Integrated	6 ... 12 11 ... 17	19 20 003 1421 19 20 003 1422	
Han A®, Hoods, Top entry 	1x M20 1x M25		19 20 003 1440 19 20 003 1445	
Han A®, Hoods, Side entry 	1x M20		19 20 003 1640	
Han A®, Screw mounted housings 	1x M20		19 20 003 1150	

Housings

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A®, Screw mounted housings, Angled 	1x M20 1x M25		19 20 003 1160 19 20 003 1165	 
Han A®, Bulkhead mounted housings, Straight 			09 20 003 0301	 Panel cut out 22 x 22 mm
Han A®, Bulkhead mounted housings, Straight, With metal cover  for male inserts			09 20 003 0305	 Panel cut out 22 x 22 mm

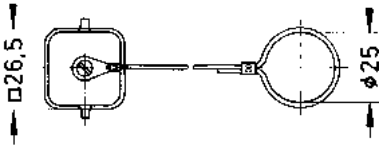
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Han A®, Bulkhead mounted housings, Straight, With metal cover, With seal 			09 20 003 0306	
for female inserts Han A®, Bulkhead mounted housings, Angled 			09 20 003 0801	 Panel cut out 22 x 22 mm
Han A®, Bulkhead mounted housings, Angled, 4 fixing screws 			09 20 003 0810	
Han A®, Bulkhead mounted housings, Angled, 4 fixing screws, Square mounting flange 			09 20 003 0811	

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A®, Surface mounted housing, Open bottom, Top entry 	1x M20		19 20 003 1250	 Panel cut out 22 x 22 mm
Han A®, Surface mounted housing, Bottom closed, Top entry 	1x M20		19 20 003 1252	
Han A®, Cable to cable housing, Top entry 	1x M20 1x M25		19 20 003 1750 19 20 003 1755	
Han A®, Panel feed through housing, Top entry 	1x M20		19 20 003 1120	 Panel cut out

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A®, Protection cover, for hoods, Metal, With fixing cord, With seal  for mounted female insert			09 20 003 5421	
Han A®, Protection cover, for hoods, Metal, With fixing cord  for mounted male insert			09 20 003 5422	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord, With seal  for mounted female insert or for mounted Han-Brid® insert			09 20 003 5425	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord  for mounted male insert			09 20 003 5426	
Han A®, Protection cover, for cable to cable housing, Metal, With fixing cord, With seal  for mounted female insert or for mounted Han-Brid® insert			09 20 003 5427	



Housings

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A® , Protection cover, for cable to cable housing, Metal, With fixing cord 			09 20 003 5428	 □26,5 ø25

Features

- Hoods/housings for industrial applications
- Slim, space saving construction type

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP44, IP67, with seal screw 09 20 000 9918
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 7032 (pebble grey), RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Colour (locking)	RAL 7032 (pebble grey), RAL 9005 (jet black)
Material flammability class acc. to UL 94	V-0
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant

Specifications and approvals

UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Housings

Standard Hoods/housings for industrial applications
Single locking lever

Housings

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
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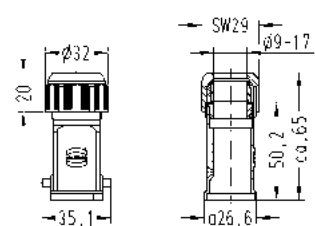
Han A®,
Hoods,
With integrated cable gland,
Top entry,
Grey



1x Integrated
1x Integrated

7 ... 12
9 ... 17

19 20 003 0415
19 20 003 0410

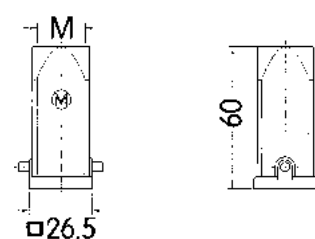


Han A®,
Hoods,
Top entry,
Grey



1x M20
1x M25

19 20 003 0420
19 20 003 0430



Han A®,
Hoods,
Top entry,
Black



1x M20
1x M25

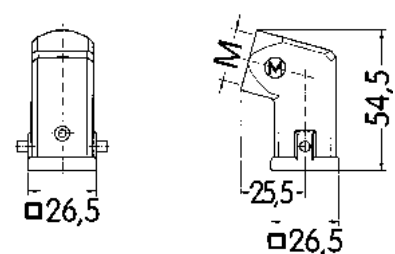
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Han A®,
Hoods,
Side entry,
Grey



1x M20

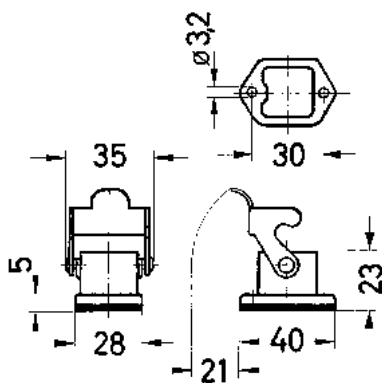
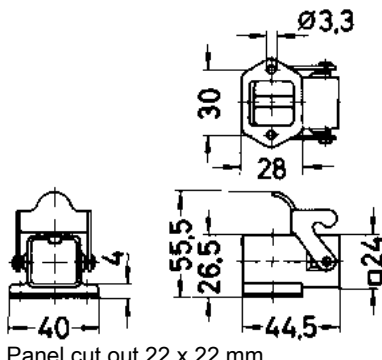
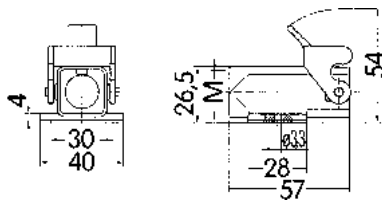
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Han A®,
Hoods,
Side entry,
Black

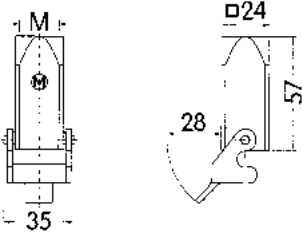
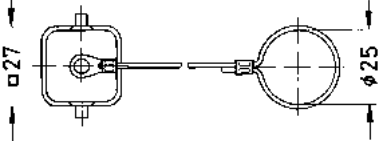
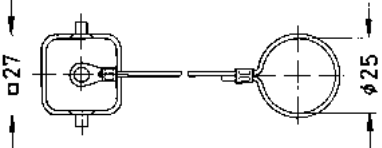
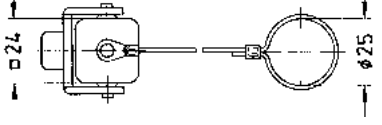
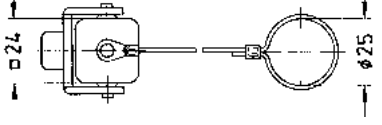
1x M20

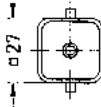
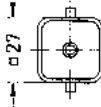
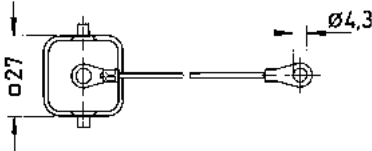
19 20 003 0627

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A®, Bulkhead mounted housings, Straight, Grey 			09 20 003 0320	 Panel cut out 22 x 22 mm
Han A®, Bulkhead mounted housings, Straight, Black			09 20 003 0327	
Han A®, Bulkhead mounted housings, Angled, Grey 			09 20 003 0820	 Panel cut out 22 x 22 mm
Han A®, Bulkhead mounted housings, Angled, Black			09 20 003 0827	
Han A®, Surface mounted housing, Top entry, Grey 	1x M20		19 20 003 0220	 Panel cut out 22 x 22 mm
Han A®, Surface mounted housing, Top entry, Black	1x M20		19 20 003 0227	

Housings

Housings

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A®, Cable to cable housing, Top entry, Grey 	1x M20		19 20 003 0720	
Han A®, Cable to cable housing, Top entry, Black	1x M20		19 20 003 0727	
Han A®, Protection cover, for cable to cable housing, Thermoplastic, With seal, With fixing cord, Grey  for mounted female insert			09 20 003 5447	
Han A®, Protection cover, for cable to cable housing, Thermoplastic, With fixing cord, Grey  for mounted male insert			09 20 003 5448	
Han A®, Protection cover, for hoods, Thermoplastic, With fixing cord, With seal, Grey  for mounted female insert or for mounted Han-Brid® insert			09 20 003 5441	
Han A®, Protection cover, for hoods, Thermoplastic, With fixing cord, Grey  for mounted male insert			09 20 003 5442	

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, Grey  for mounted male insert			09 20 003 5407	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, With seal, Grey  for mounted female insert or for mounted Han-Brid® insert			09 20 003 5408	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, With seal, Black  for mounted female insert or for mounted Han-Brid® insert			09 20 003 5409	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, With seal, With fixing cord, Grey  for mounted female insert			09 20 003 5445	

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
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Han A®,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
Thermoplastic,
With fixing cord,
Grey



for mounted male insert

Han A®,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
Thermoplastic,
With seal,
With fixing cord,
Black



for mounted female insert

Han A®,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
Thermoplastic,
With fixing cord,
Black

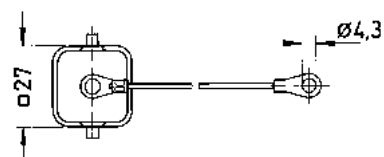


for mounted male insert

09 20 003 5446

09 20 003 5449

09 20 003 5450



Features

- Standard Hoods/housings for industrial applications
- Slim, space saving construction type

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6b: Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, 6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight

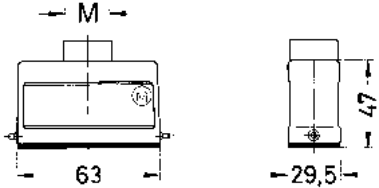
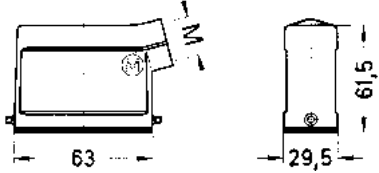
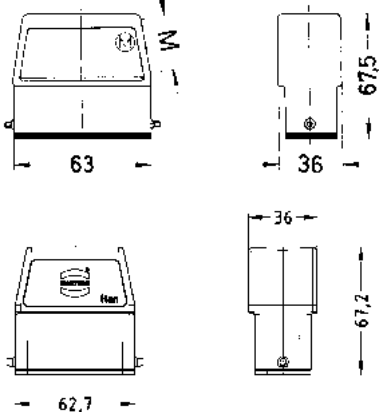
Specifications and approvals

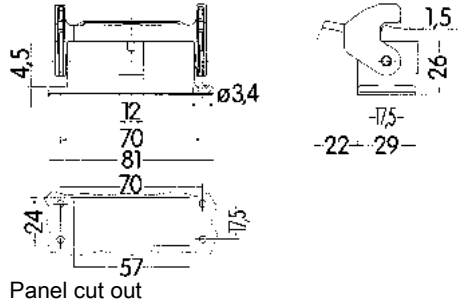
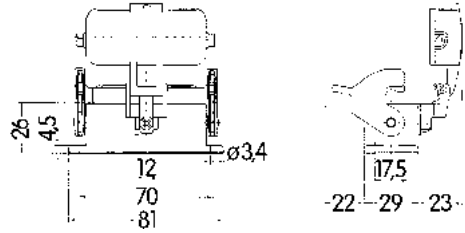
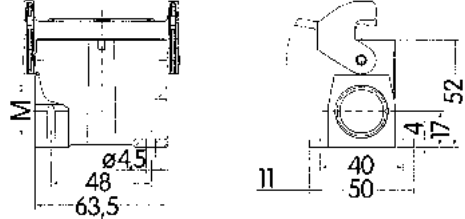
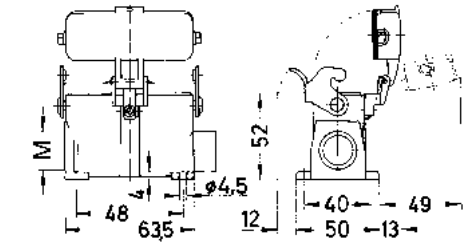
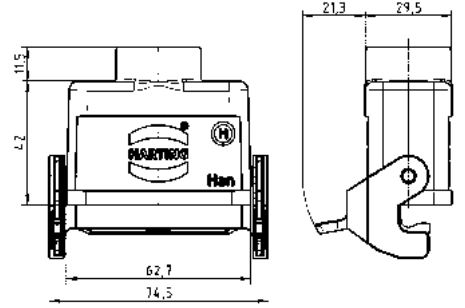
UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Housings

Standard Hoods/housings for industrial applications
Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Hoods, Top entry 	1x M20 1x M25	19 20 010 1440	19 20 010 0446	
Han A®, Hoods, Side entry 	1x M20 1x M25	19 20 010 1540	19 20 010 0546	
Han A®, Hoods, Without cable entry 			09 20 010 0801	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Bulkhead mounted housings, Han-Easy Lock® 		09 20 010 0301		 Panel cut out
Han A®, Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock® 		09 20 010 0321		
Han A®, Surface mounted housing, Side entry, Han-Easy Lock® 	1x M25 2x M20	19 20 010 0251 19 20 010 0290		
Han A®, Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	2x M20		19 20 010 0295	
Han A®, Cable to cable housing, Top entry, Han-Easy Lock® 	1x M20	19 20 010 1730		

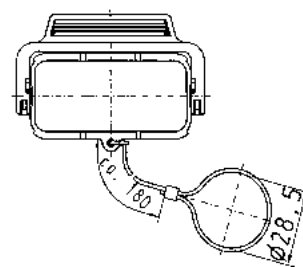
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	

Han A®,
Protection cover,
for hoods,
Metal,
With fixing cord



09 20 010 5423

09 20 010 5423

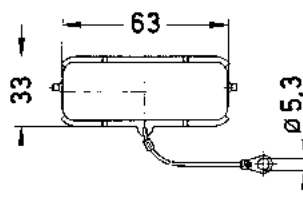


Han A®,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
for cable to cable housing,
Metal,
With fixing cord



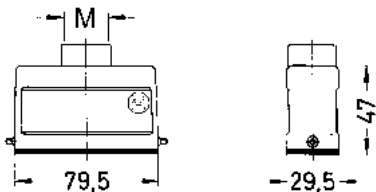
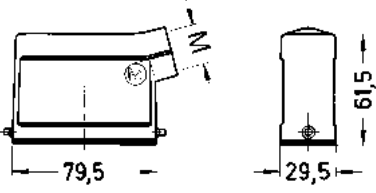
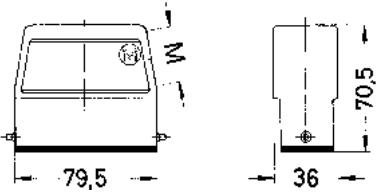
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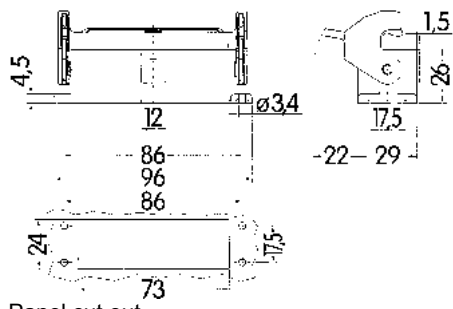
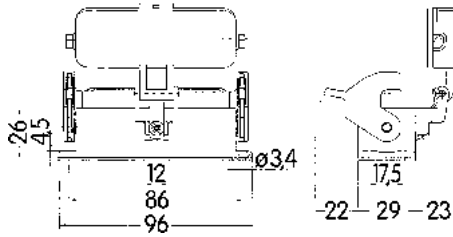
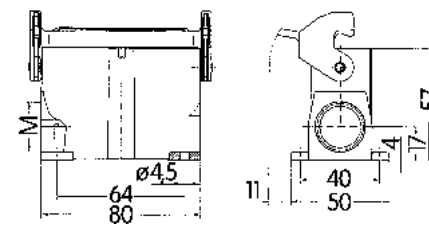
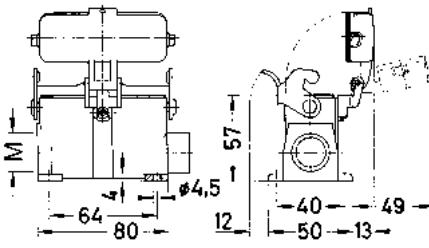
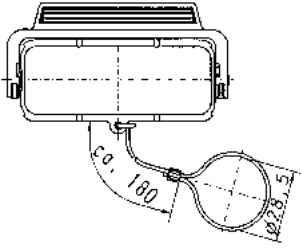
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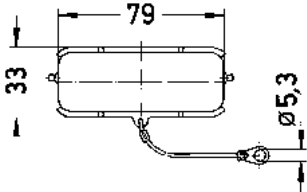


Standard Hoods/housings for industrial applications
Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Hoods, Top entry 	1x M20 1x M25	19 20 016 1440	19 20 016 0446	
Han A®, Hoods, Side entry 	1x M20 1x M25	19 20 016 1540	19 20 016 0546	
Han A®, Hoods, Without cable entry 			09 20 016 0801	

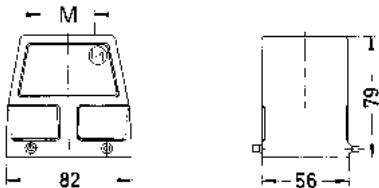
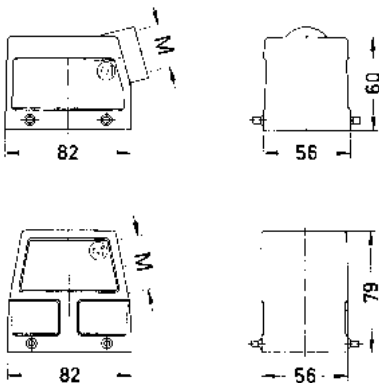
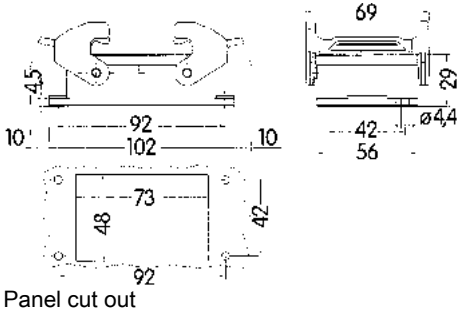
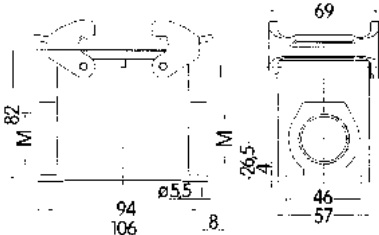
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Bulkhead mounted housings, Han-Easy Lock® 		09 20 016 0301		 Panel cut out
Han A®, Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock® 		09 20 016 0321		
Han A®, Surface mounted housing, Side entry, Han-Easy Lock® 	1x M25 2x M20 2x M25	19 20 016 0251 19 20 016 0290 19 20 016 0291		
Han A®, Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	2x M20	19 20 016 0295		
Han A®, Protection cover, for hoods, Metal, With fixing cord, Han-Easy Lock® 		09 20 016 5423	09 20 016 5423	

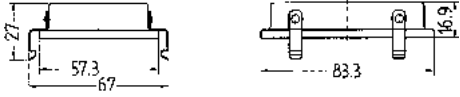
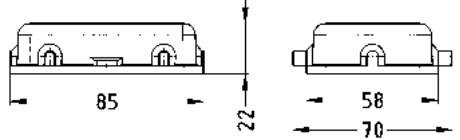
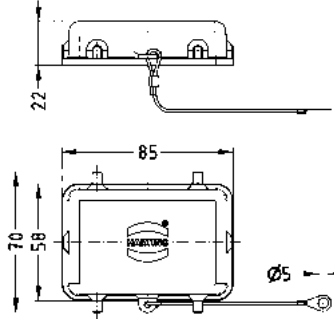
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A® , Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Metal, With fixing cord 		09 20 016 5425	09 20 016 5425	

Housings

Standard Hoods/housings for industrial applications
Double locking lever

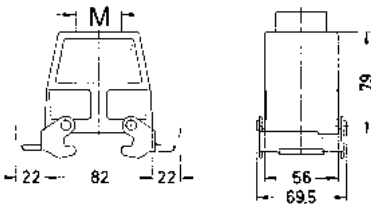
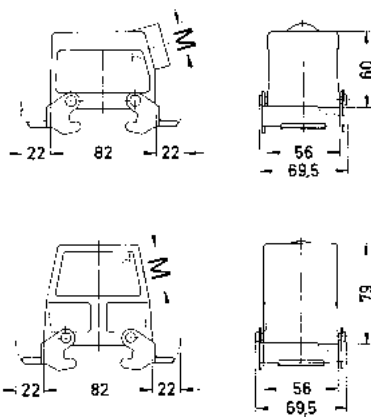
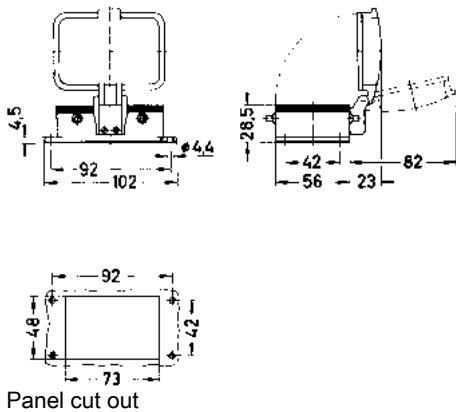
Housings

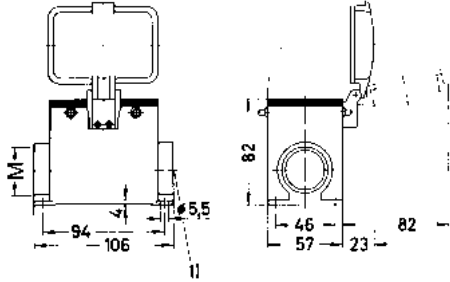
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Hoods, Top entry 	1x M25 1x M32		19 20 032 0426 19 20 032 0427	
Han A®, Hoods, Side entry 	1x M25 1x M32	19 20 032 1521	19 20 032 0527	
Han A®, Bulkhead mounted housings, Han-Easy Lock® 		09 20 032 0301		 Panel cut out
Han A®, Surface mounted housing, Side entry, Han-Easy Lock® 	1x M25 1x M32 2x M32		19 20 032 0231 19 20 032 0232 19 20 032 0272	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Protection cover, for hoods, Metal 		09 20 032 5401	09 20 032 5401	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal 		09 20 032 5405	09 20 032 5405	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic 		09 20 032 5407	09 20 032 5407	
Han A®, Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, With fixing cord 		09 20 032 5408	09 20 032 5408	

Standard Hoods/housings for industrial applications
Double locking lever (on the hood)

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Hoods, Top entry, Han-Easy Lock® 	1x M32		19 20 032 0437	
Han A®, Hoods, Side entry, Han-Easy Lock® 	1x M25 1x M32	19 20 032 1531	19 20 032 0537	
Han A®, Bulkhead mounted housings, With thermo-plastic cover 		09 20 032 0302		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han A®, Surface mounted housing, With thermo-plastic cover, Side entry 	1x M25		19 20 032 0226	 1) Blind way for one cable entry

Features

- Standard hoods/housings for industrial connectors
- Locking levers: Han-Easy Lock®
- Field of application: for excellent mechanical and electrical protection in demanding environments, for example, in the automobile and mechanical engineering industries also for process and regulation control applications
- Distinguishing feature: hoods/housings colour-coded grey (RAL 7037)
- Many variations: for precise industrial applications

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65, IP67, in combination with special bulkhead mounted housings, IP44, in unlocked position
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant, compliant with exemption
RoHS exemptions	6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight, 6b: Lead as an alloying element in aluminium containing up to 0,4 % lead by weight

Specifications and approvals

UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Details

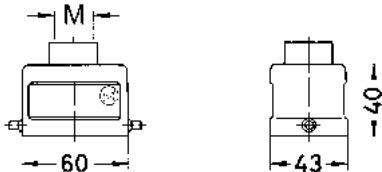
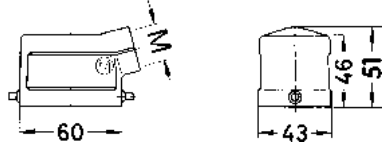
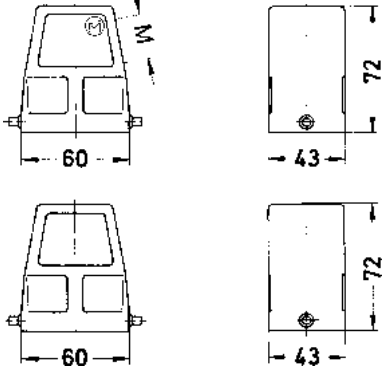
Standard degree of protection: IP65

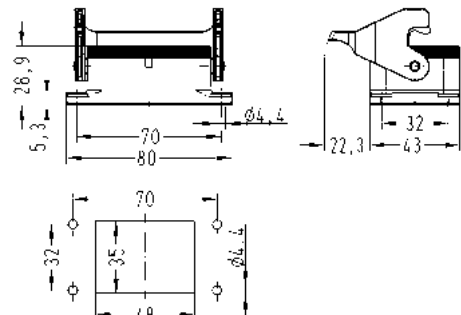
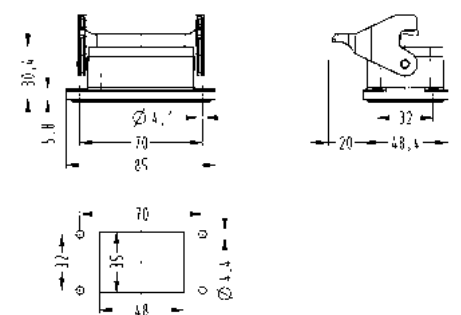
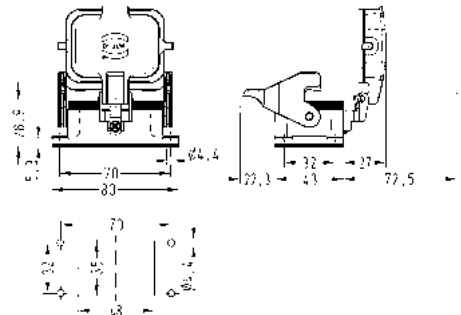
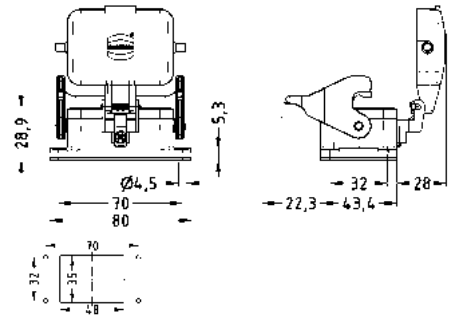
IP67 possible, in combination with special bulkhead mounted housings

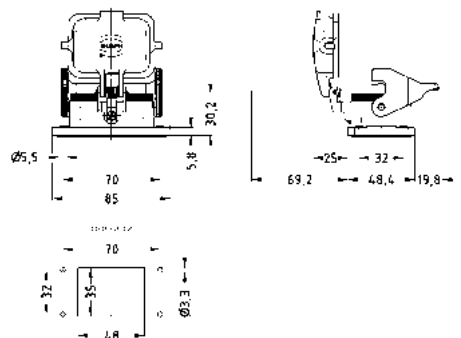
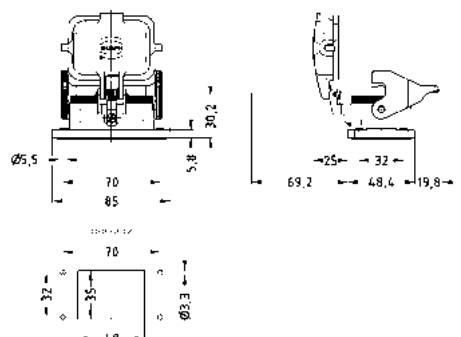
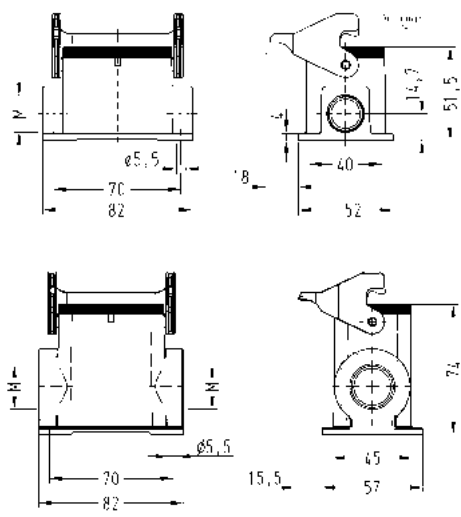
IP44 for self-closing covers in unlocked position

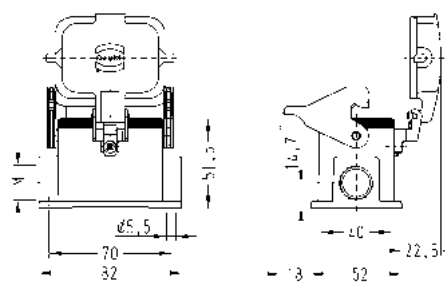
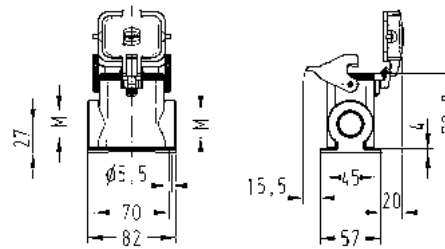
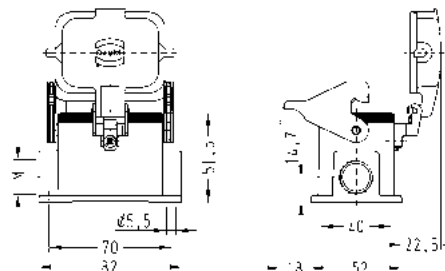
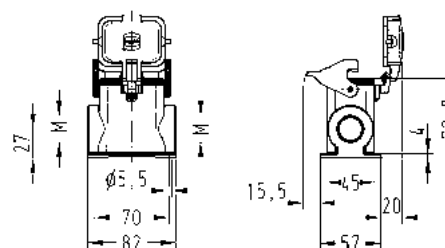
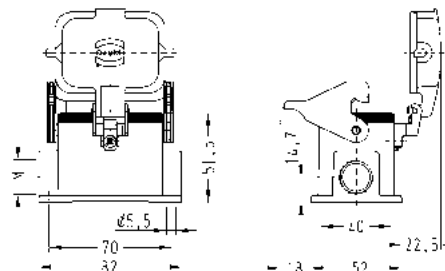
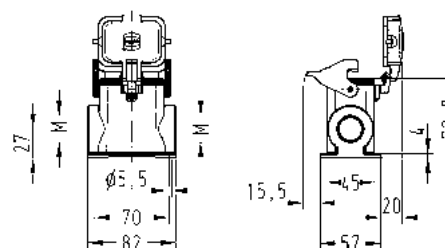
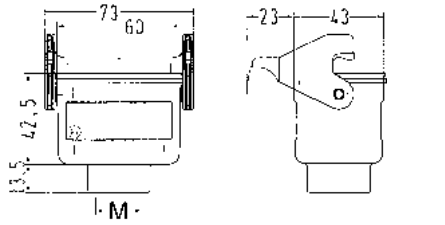
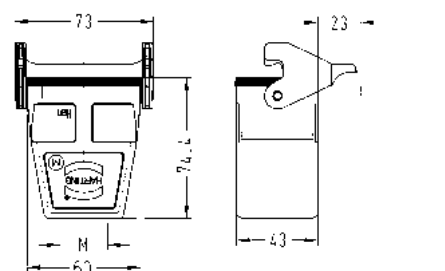
Standard hoods/housings for industrial connectors
Single locking lever

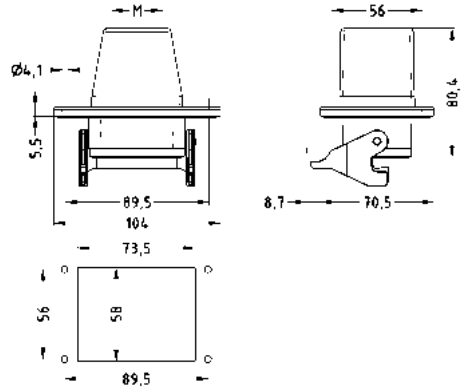
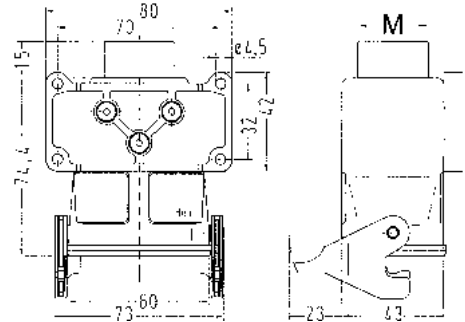
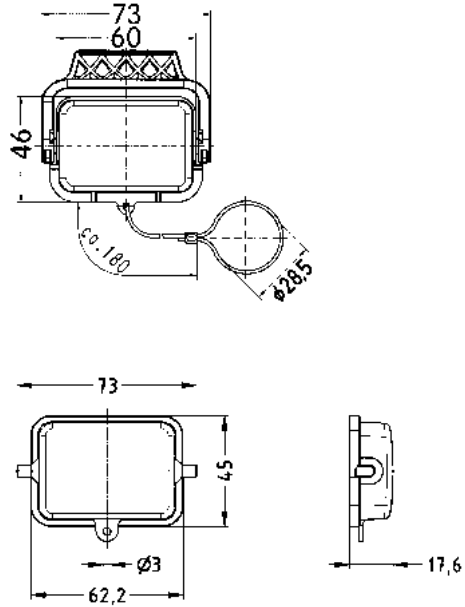
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)	
		Low construction	High construction		
Han® B , Hoods, Top entry 	1x M20 1x M25 1x M32	19 30 006 1440	19 30 006 0446 19 30 006 0447		
Han® B , Hoods, Side entry 	1x M20 1x M25 1x M32	19 30 006 1540 19 30 006 1541	19 30 006 0546 19 30 006 0547		
Han® B , Hoods, Without cable entry 			09 30 006 0801		

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 006 0301		 Panel cut out
Han® B , Bulkhead mounted housings, Han-Easy Lock®, IP67 		09 30 006 1301		 Panel cut out
Han® B , Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock® 		09 30 006 0302		 Panel cut out
Han® B , Bulkhead mounted housings, With metal cover, Han-Easy Lock® 		09 30 006 0318		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With self-closing cover, Han-Easy Lock® 		09 30 006 1306		 Panel cut out
Han® B , Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock®, IP67 		09 30 006 1308		 Panel cut out
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M20 2x M20 2x M25 2x M32	19 30 006 1250 19 30 006 1290	19 30 006 0291 19 30 006 0292	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	1x M20 2x M20 2x M25 2x M32	19 30 006 1255 19 30 006 1295	19 30 006 0296 19 30 006 0297	   
Han® B , Surface mounted housing, With metal cover, Side entry, Han-Easy Lock® 	1x M20 2x M20 2x M25 2x M32	19 30 006 2255 19 30 006 2295	19 30 006 7296 19 30 006 7297	 
Han® B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M20 1x M25 1x M32	19 30 006 1750	19 30 006 0756 19 30 006 0757	 

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Panel feed through housing, Top entry, Han-Easy Lock® 	1x M25 1x M32		19 30 006 1121 19 30 006 1122	 Panel cut out
Han® B , Flange housings, Top entry, Han-Easy Lock® 	1x M25	19 30 006 0716		
Han® B , Protection cover, for hoods, With fixing cord, Han-Easy Lock® 		09 30 006 5423	09 30 006 5423	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic 		09 30 006 5405	09 30 006 5405	



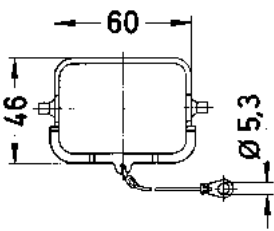
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	

Han® B ,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
Metal,
With fixing cord



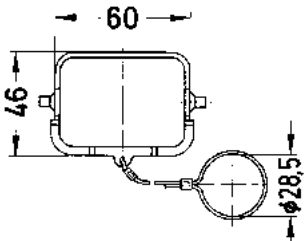
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Han® B ,
Protection cover,
for cable to cable housing,
Metal,
With fixing cord

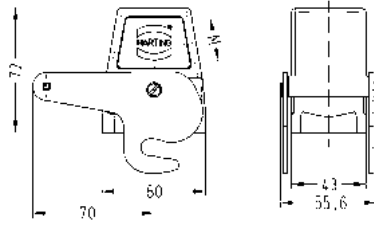
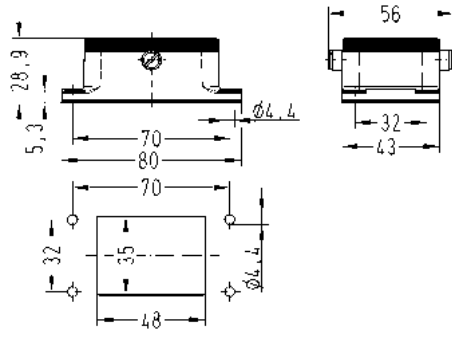
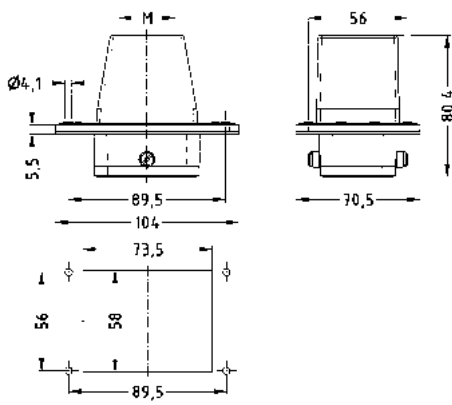


09 30 006 5427	09 30 006 5427
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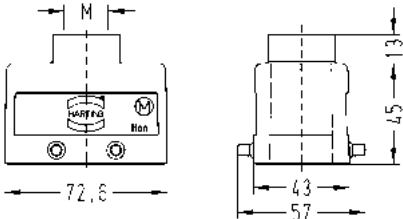
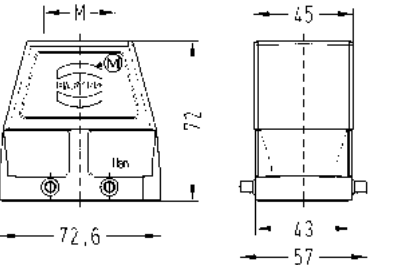
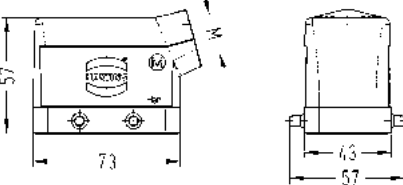
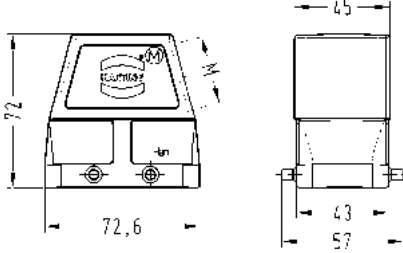
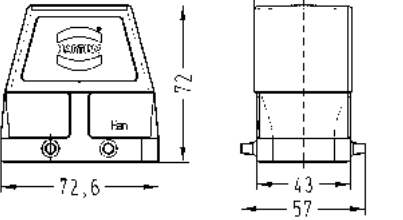
Standard hoods/housings for industrial connectors
Central locking lever (on the hood)

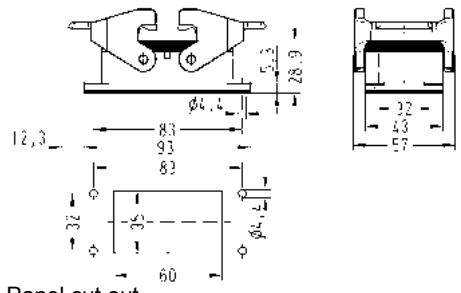
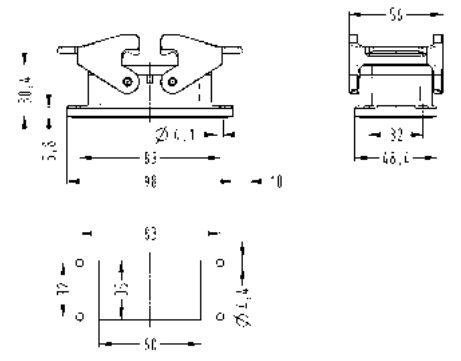
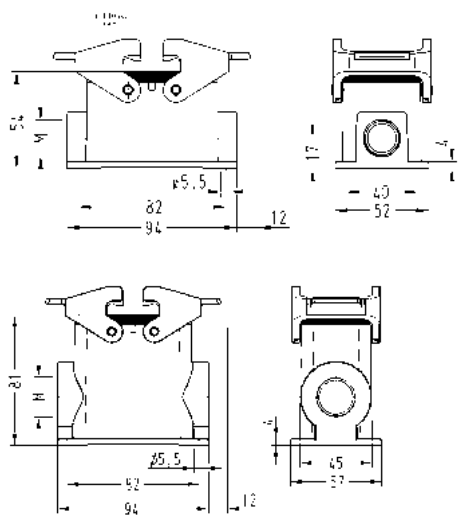
Housings

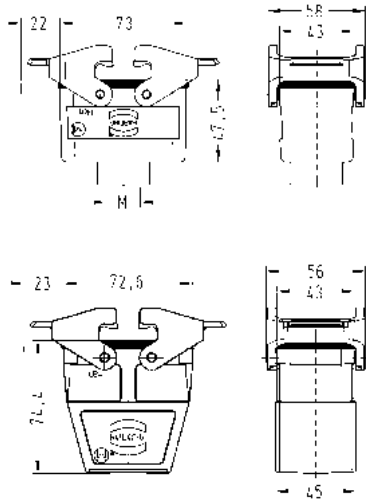
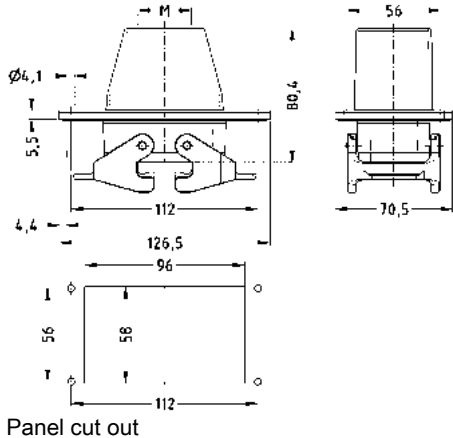
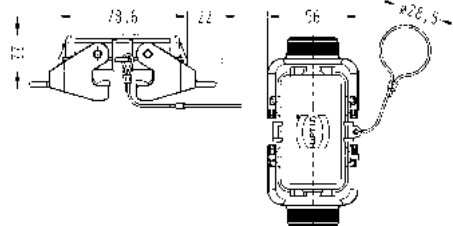
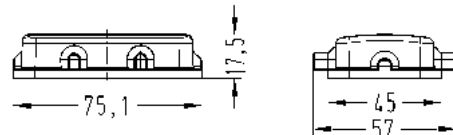
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Side entry 	1x M25 1x M32		19 30 006 0586 19 30 006 0587	
Han® B , Bulkhead mounted housings 		09 30 006 0381		 Panel cut out
Han® B , Panel feed through housing, Top entry 	1x M25 1x M32		19 30 006 1141 19 30 006 1142	 Panel cut out

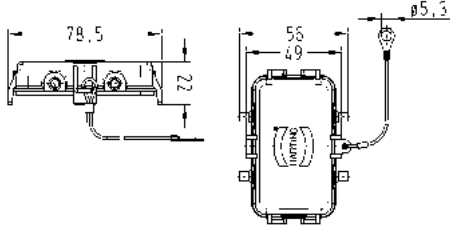
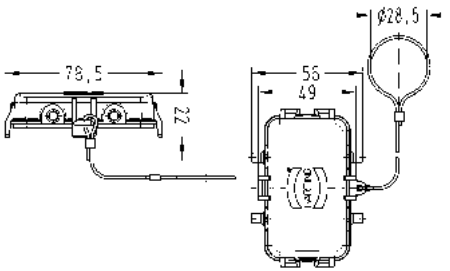
Standard hoods/housings for industrial connectors
Double locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M20 1x M25 1x M32 1x M40 2x M20	19 30 010 1420 19 30 010 1421	19 30 010 0427 19 30 010 0428 19 30 010 0465	 
Han® B , Hoods, Side entry 	1x M20 1x M25 1x M32	19 30 010 1520 19 30 010 1521	19 30 010 0526 19 30 010 0527	 
Han® B , Hoods, Without cable entry 			09 30 010 0801	

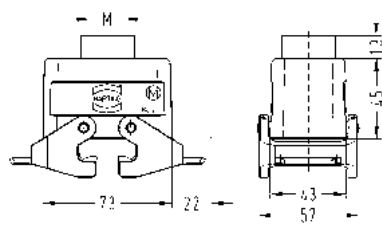
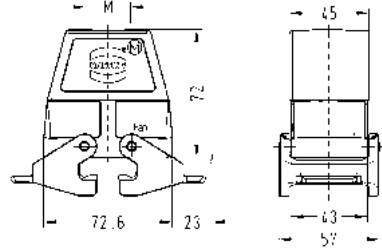
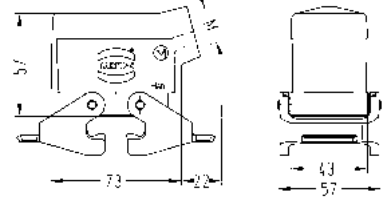
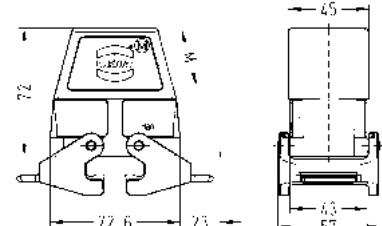
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 010 0301		 Panel cut out
Han® B , Bulkhead mounted housings, Han-Easy Lock®, IP67 		09 30 010 1301		 Panel cut out
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M20 1x M25 2x M20 2x M25 2x M32	19 30 010 1230 19 30 010 1231 19 30 010 1270	19 30 010 0231 19 30 010 0271 19 30 010 0272	

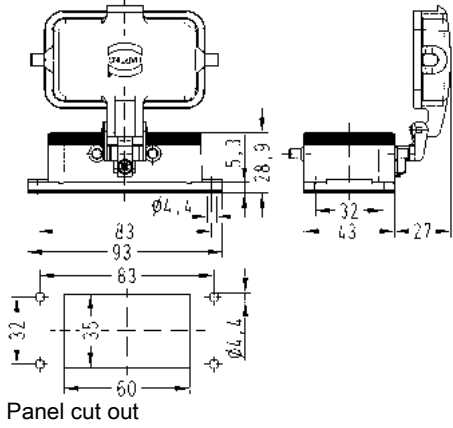
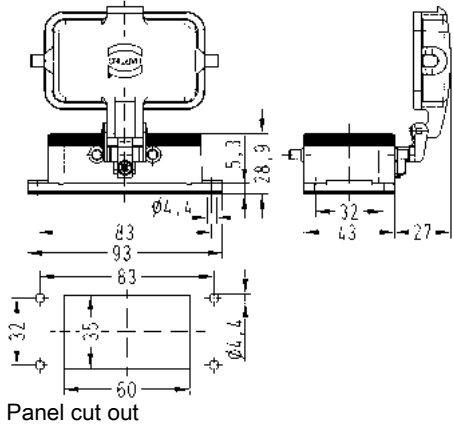
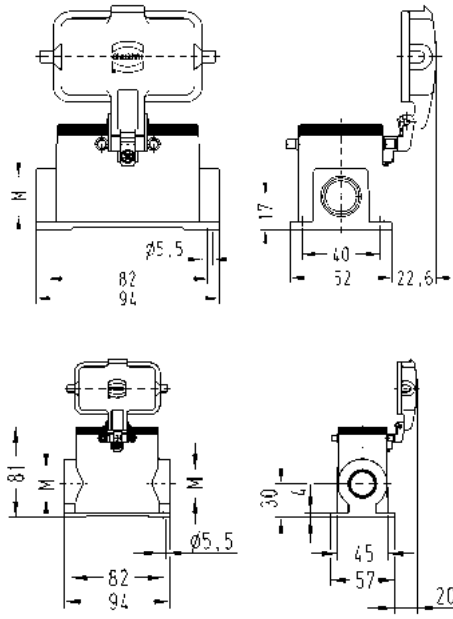
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M20 1x M25 1x M32	19 30 010 1730	19 30 010 0736 19 30 010 0737	
Han® B , Panel feed through housing, Top entry, Han-Easy Lock® 	1x M25 1x M32		19 30 010 1121 19 30 010 1122	 Panel cut out
Han® B , Protection cover, for hoods, Metal, With fixing cord, Han-Easy Lock® 		09 30 010 5423	09 30 010 5423	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic 		09 30 010 5407	09 30 010 5407	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 30 010 5425	09 30 010 5425	
Han® B , Protection cover, for cable to cable housing, Metal, With fixing cord 		09 30 010 5427	09 30 010 5427	

Standard hoods/housings for industrial connectors
Double locking lever (on the hood)

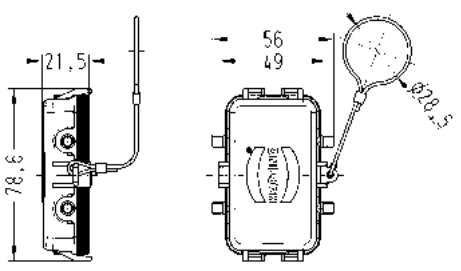
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry, Han-Easy Lock® 	1x M20 1x M25	19 30 010 1430	19 30 010 0436	 
Han® B , Hoods, Side entry, Han-Easy Lock® 	1x M20 1x M25 1x M32	19 30 010 1530 19 30 010 1531	19 30 010 0537	 

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With thermo-plastic cover 		09 30 010 0302		 Panel cut out
Han® B , Bulkhead mounted housings, With metal cover 		09 30 010 0317		 Panel cut out
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry 	1x M20 2x M20 2x M25	19 30 010 1225 19 30 010 1265	19 30 010 0266	

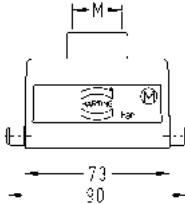
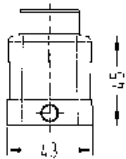
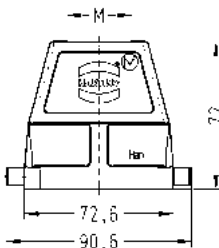
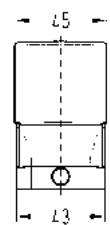
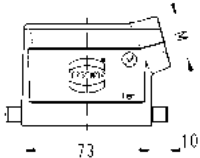
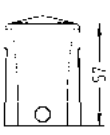
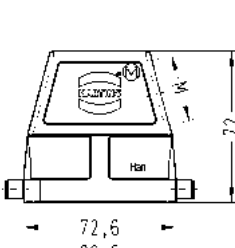
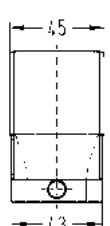
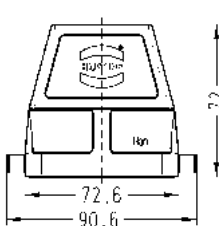
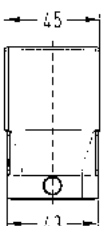


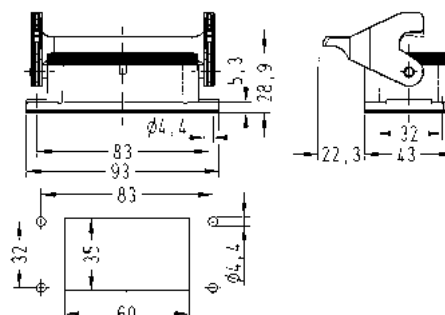
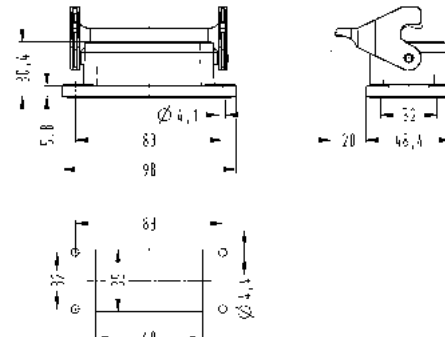
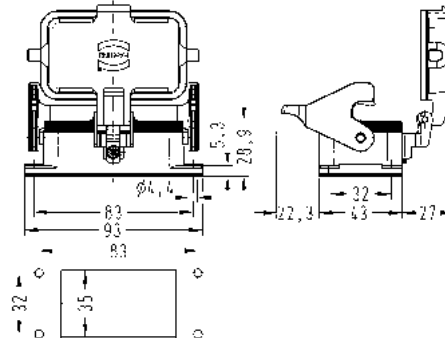
Housings

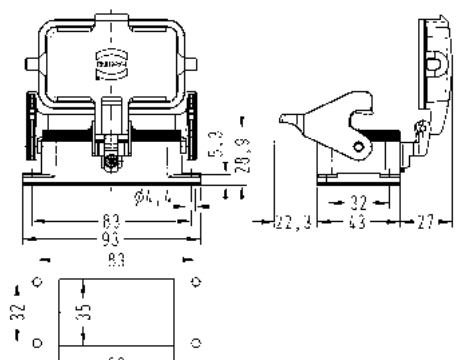
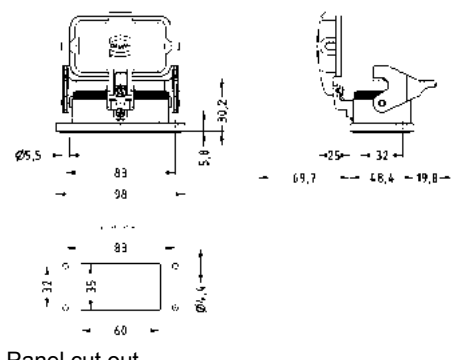
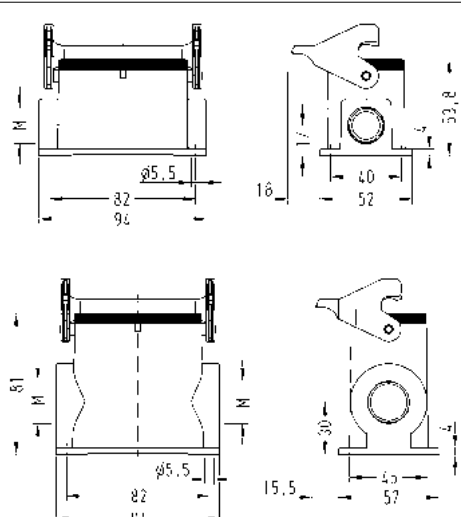
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Protection cover, for hoods, Metal, With fixing cord 		09 30 010 5457	09 30 010 5457	

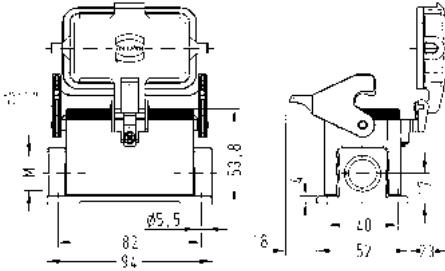
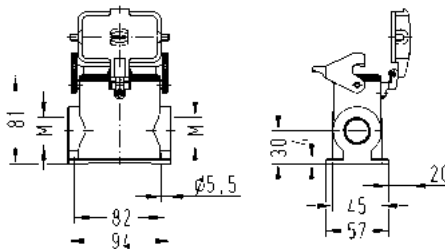
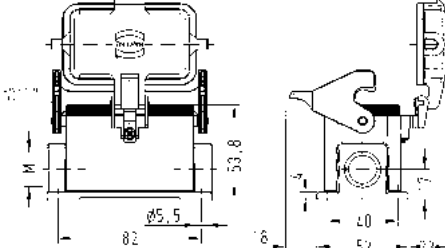
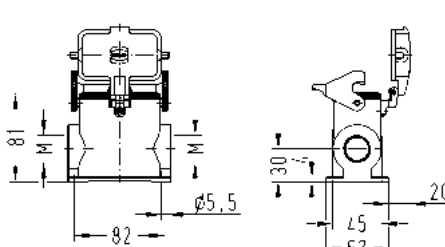
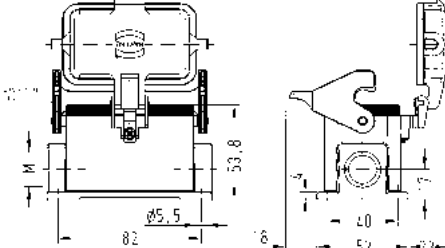
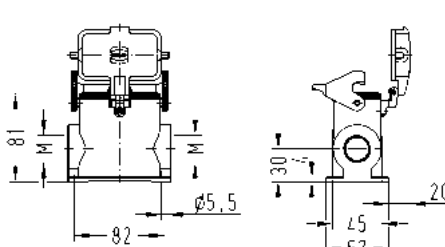
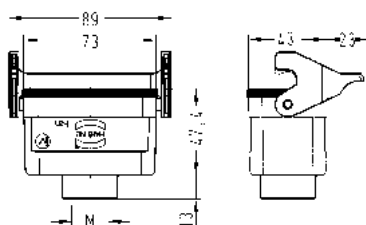
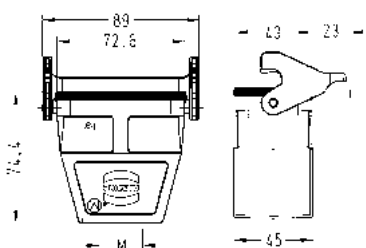
Standard hoods/housings for industrial connectors
Single locking lever

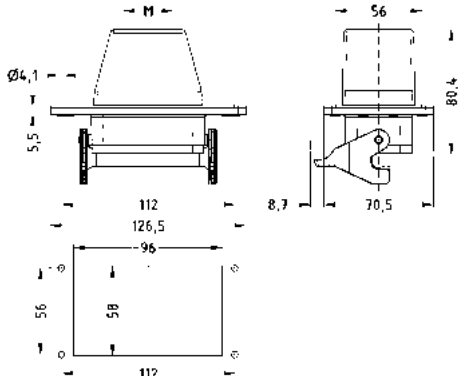
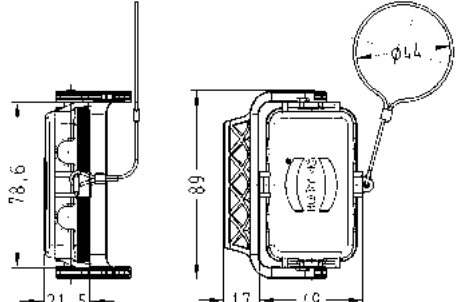
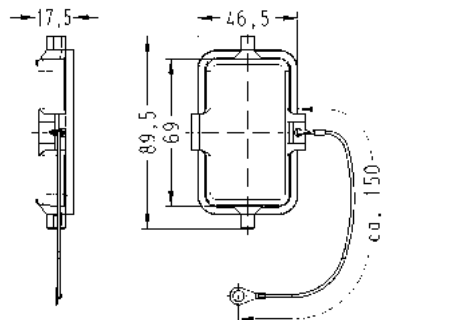
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M20 1x M25 1x M32 1x M40 2x M20	19 30 010 1440 19 30 010 1441	19 30 010 0447 19 30 010 0448 19 30 010 0495	   
Han® B , Hoods, Side entry 	1x M20 1x M25 1x M32	19 30 010 1540 19 30 010 1541	19 30 010 0547	   
Han® B , Hoods, Without cable entry 			09 30 010 0803	 

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 010 0305 09 30 010 1308		 Panel cut out
Han® B , Bulkhead mounted housings, Han-Easy Lock®, IP67 		09 30 010 1305		 Panel cut out
Han® B , Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock® 		09 30 010 0303		 Panel cut out

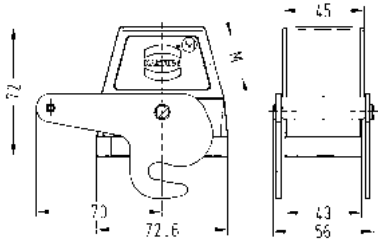
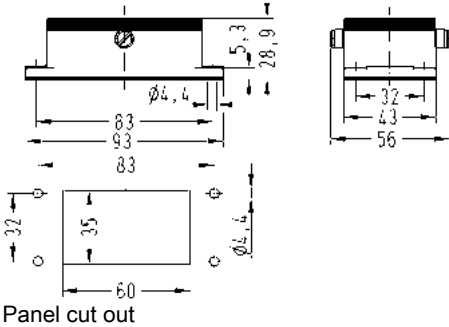
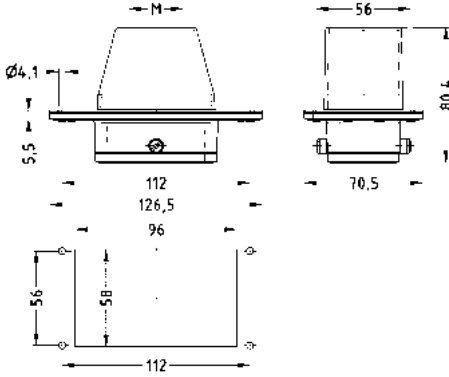
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With metal cover, Han-Easy Lock® 		09 30 010 0318		 Panel cut out
Han® B , Bulkhead mounted housings, With self-closing cover, Han-Easy Lock® 		09 30 010 1306		 Panel cut out
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M20 2x M20 2x M25 2x M32	19 30 010 1250 19 30 010 1290	19 30 010 0291 19 30 010 0292	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	1x M20 2x M20 2x M25 2x M32	19 30 010 1255 19 30 010 1295	19 30 010 0296 19 30 010 0297	   
Han® B , Surface mounted housing, With metal cover, Side entry, Han-Easy Lock® 	2x M20 2x M25 2x M32	19 30 010 2295	19 30 010 7296 19 30 010 7297	 
Han® B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M20 1x M25 1x M32	19 30 010 1750	19 30 010 0756 19 30 010 0757	 

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Panel feed through housing, Top entry, Han-Easy Lock® 	1x M25 1x M32		19 30 010 1131 19 30 010 1132	 Panel cut out
Han® B , Protection cover, for hoods, Metal, With fixing cord, Han-Easy Lock® 		09 30 010 5432	09 30 010 5432	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Thermoplastic, With fixing cord 		09 30 010 5412	09 30 010 5412	

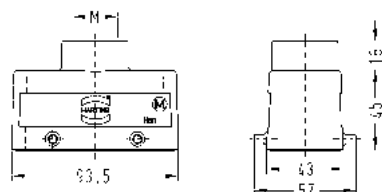
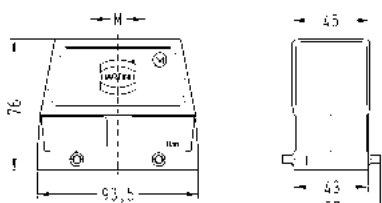
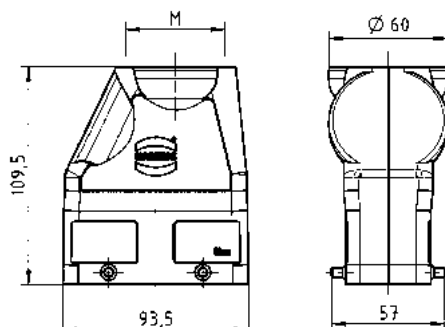
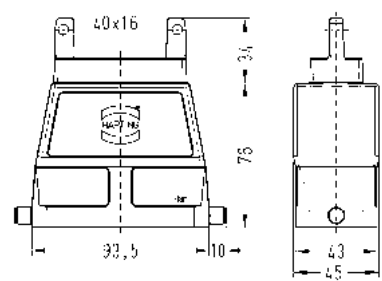
Standard hoods/housings for industrial connectors
Central locking lever (on the hood)

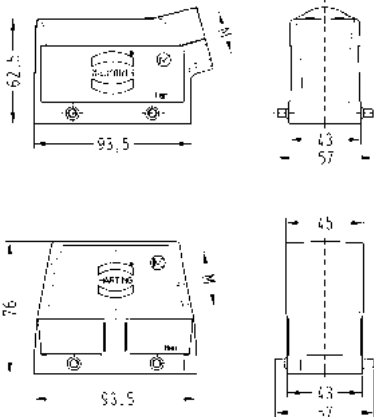
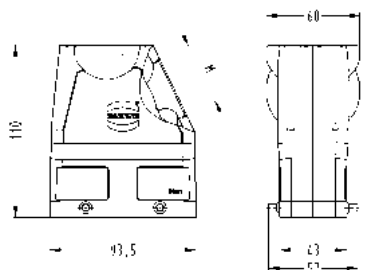
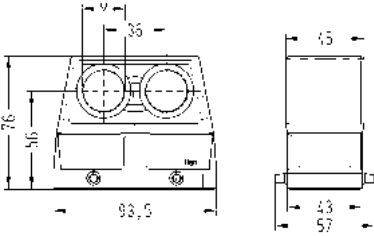
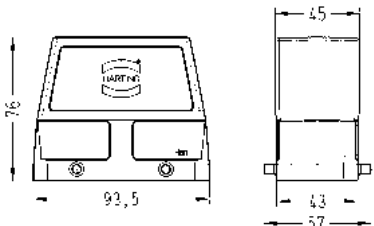
Housings

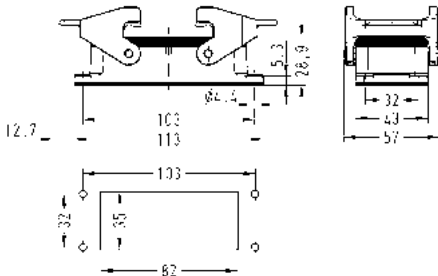
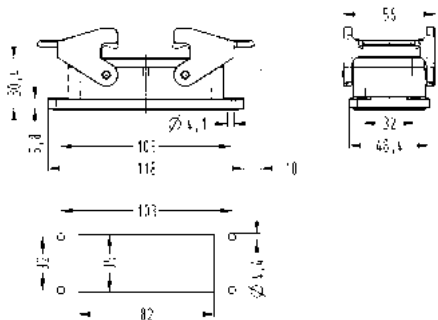
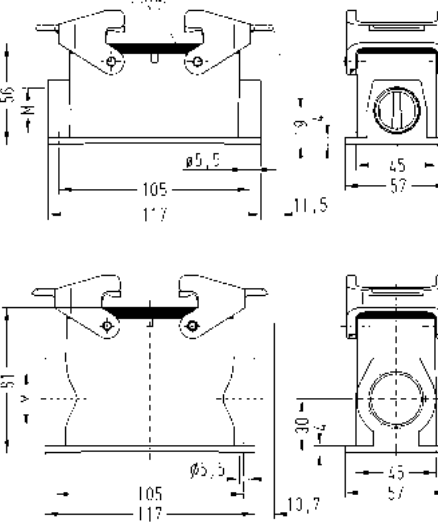
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Side entry 	1x M25		19 30 010 0586	
Han® B , Bulkhead mounted housings 		09 30 010 0381		 Panel cut out
Han® B , Panel feed through housing, Top entry 	1x M25 1x M32		19 30 010 1141 19 30 010 1142	 Panel cut out

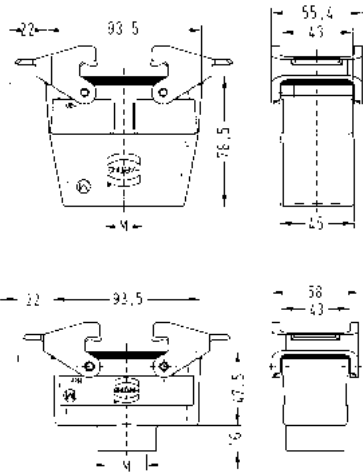
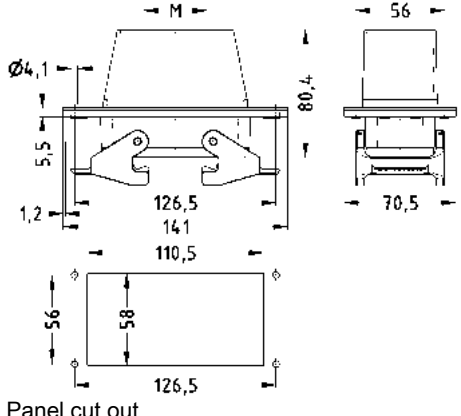
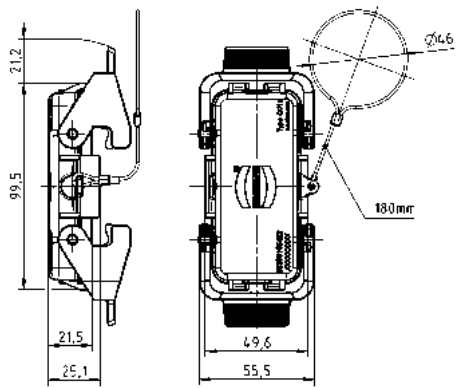
Standard hoods/housings for industrial connectors
Double locking lever

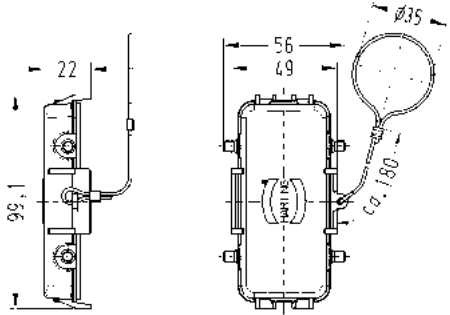
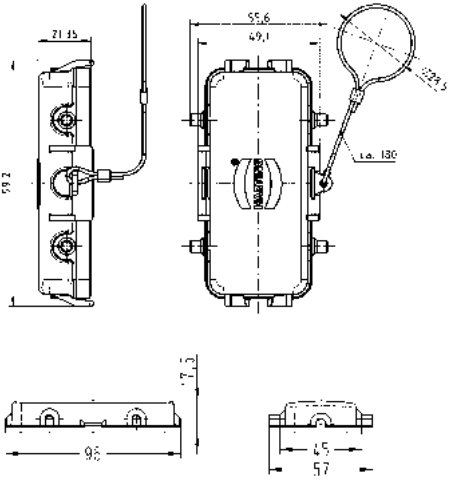
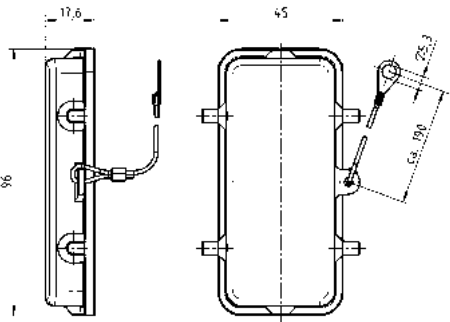
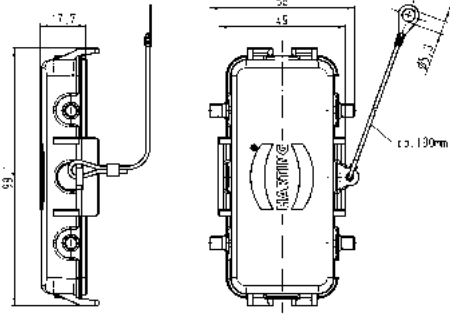
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M25 1x M32 1x M40 2x M25	19 30 016 1421 19 30 016 1422	19 30 016 0427 19 30 016 0428 19 30 016 0466	 
Han® B , Hoods, Special type, Top entry 	1x M50		19 30 016 0429	
Han® B , Hoods, Flat cable entry, Top entry 			09 30 016 4441	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Side entry 	1x M25 1x M32 1x M40	19 30 016 1521 19 30 016 1522	19 30 016 0527 19 30 016 0528	
Han® B , Hoods, Special type, Side entry 	1x M40 1x M50		19 30 016 0523 19 30 016 0529	
Han® B , Hoods, Angled entry 	2x M25		19 30 016 0666	
Han® B , Hoods, Without cable entry 			09 30 016 0801	

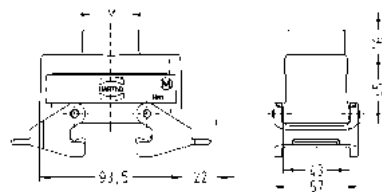
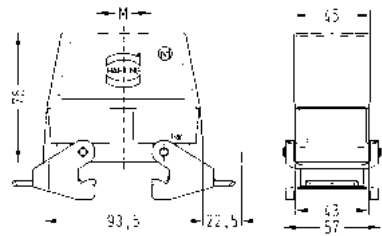
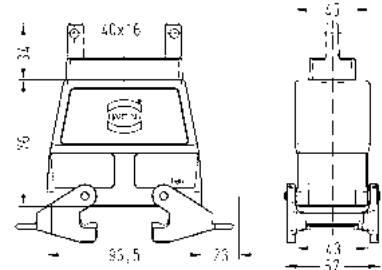
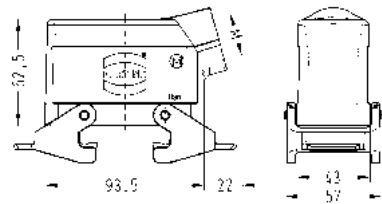
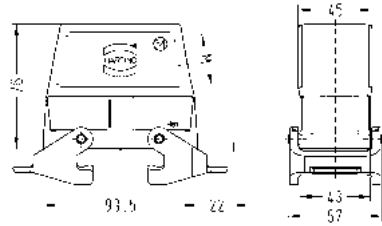
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 016 0301		 Panel cut out
Han® B , Bulkhead mounted housings, Han-Easy Lock®, IP67 		09 30 016 1301		 Panel cut out
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M25 1x M32 2x M25 2x M32 2x M40	19 30 016 1231 19 30 016 1271	19 30 016 0232 19 30 016 0271 19 30 016 0272 19 30 016 0273	

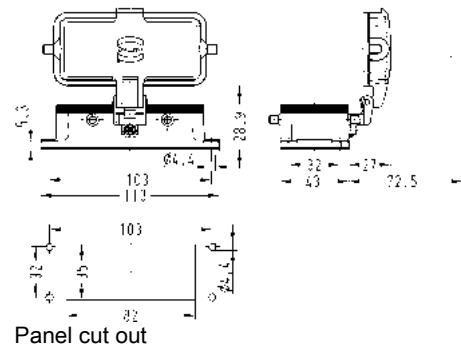
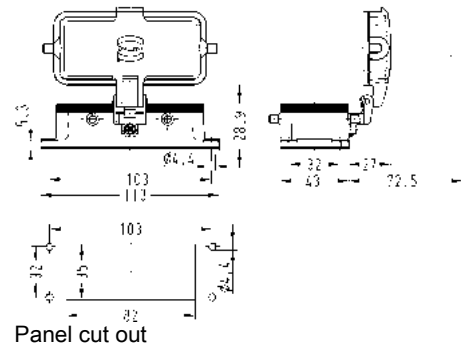
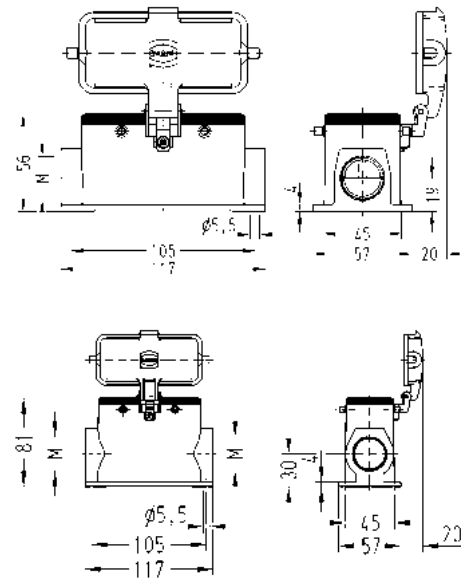
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M25 1x M32 1x M40	19 30 016 1731 19 30 016 1732	19 30 016 0736 19 30 016 0737 19 30 016 0738	
Han® B , Panel feed through housing, Top entry, Han-Easy Lock® 	1x M32 1x M40		19 30 016 1121 19 30 016 1122	 Panel cut out
Han® B , Protection cover, for hoods, Metal, With fixing cord, Han-Easy Lock® 		09 30 016 5422	09 30 016 5422	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Protection cover, for hoods, Metal, With fixing cord 		09 30 016 5426 09 30 016 5457	09 30 016 5426 09 30 016 5457	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic 		09 30 016 5405	09 30 016 5405	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, With fixing cord 		09 30 016 5417	09 30 016 5417	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 30 016 5425	09 30 016 5425	

Standard hoods/housings for industrial connectors
Double locking lever (on the hood)

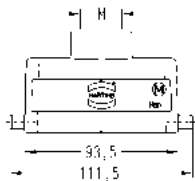
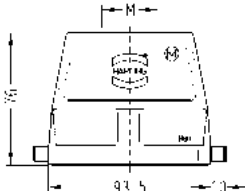
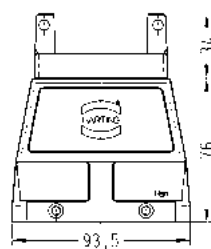
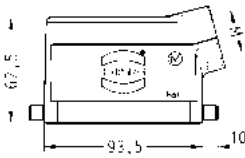
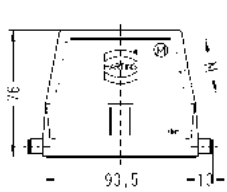
Housings

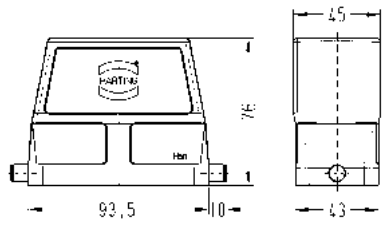
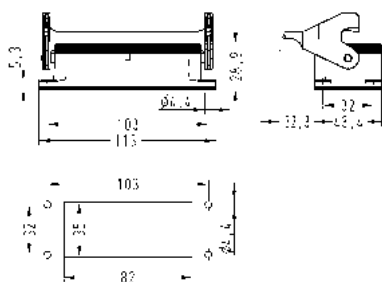
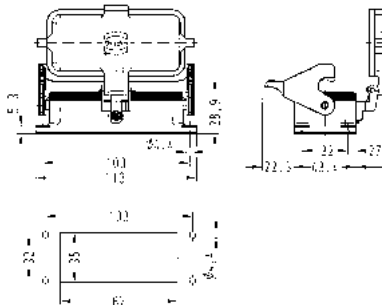
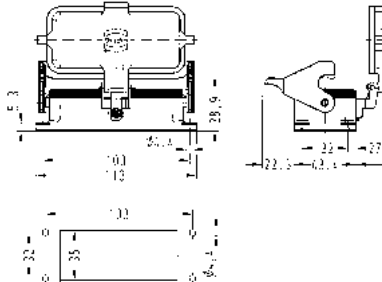
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry, Han-Easy Lock® 	1x M25 1x M32 1x M40	19 30 016 1431 19 30 016 1432	19 30 016 0437 19 30 016 0438	 
Han® B , Hoods, Flat cable entry, Top entry, Han-Easy Lock® 			09 30 016 4431	
Han® B , Hoods, Side entry, Han-Easy Lock® 	1x M25 1x M32 1x M40	19 30 016 1531	19 30 016 0537 19 30 016 0538	 

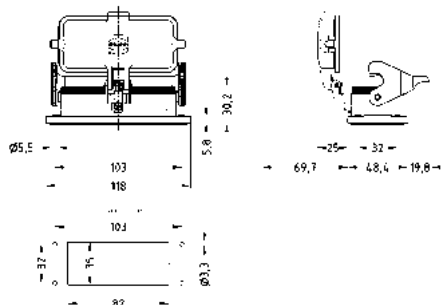
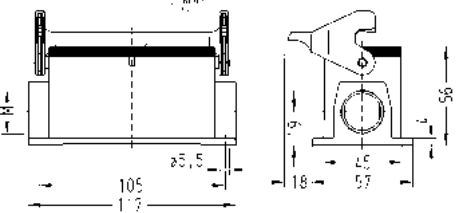
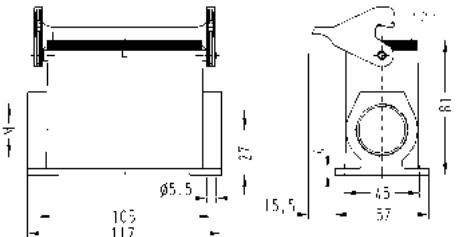
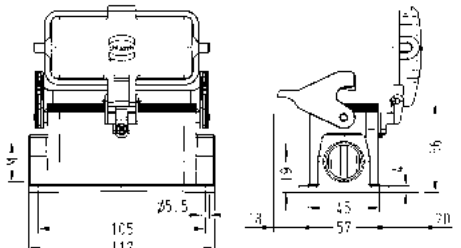
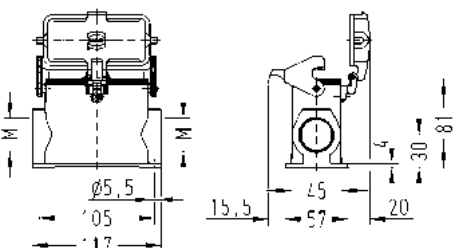
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With thermo-plastic cover 		09 30 016 0302		 Panel cut out
Han® B , Bulkhead mounted housings, With metal cover 		09 30 016 0317		 Panel cut out
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry 	1x M25 2x M25 2x M32	19 30 016 1226 19 30 016 1266	19 30 016 0267	

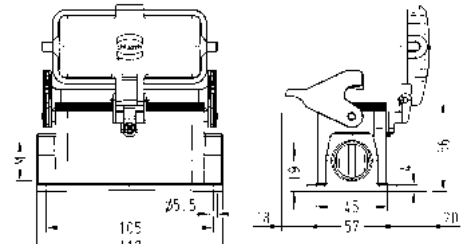
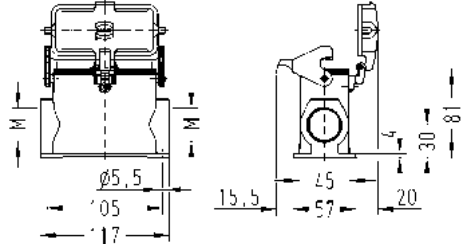
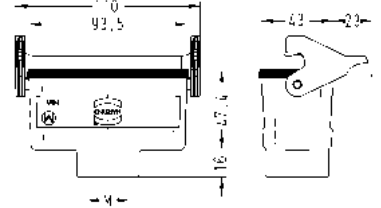
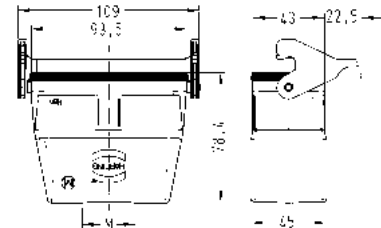
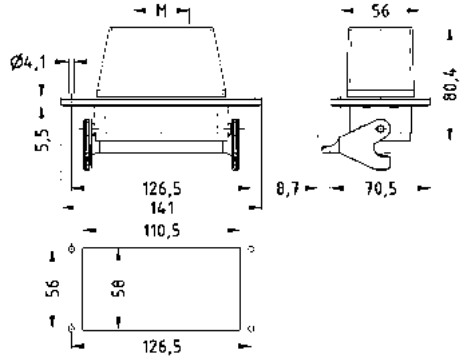
Standard hoods/housings for industrial connectors
Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M25 1x M32 1x M40 2x M25	19 30 016 1441 19 30 016 1442	19 30 016 0446 19 30 016 0447 19 30 016 0448 19 30 016 0456	 
Han® B , Hoods, Flat cable entry, Top entry 			09 30 016 4411	
Han® B , Hoods, Side entry 	1x M25 1x M32 1x M40	19 30 016 1541 19 30 016 1542	19 30 016 0547 19 30 016 0548	 

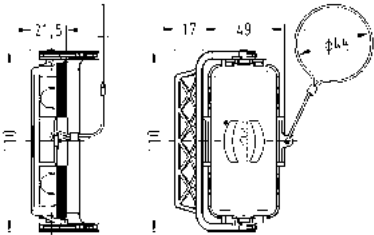
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Without cable entry 			09 30 016 0803	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 016 0307 09 30 016 1307		 Panel cut out
Han® B , Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock® 		09 30 016 0306		 Panel cut out
Han® B , Bulkhead mounted housings, With metal cover, Han-Easy Lock® 		09 30 016 0318		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With self-closing cover, Han-Easy Lock® 		09 30 016 1306		 Panel cut out
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M25 1x M32 2x M25 2x M32	19 30 016 1251 19 30 016 1291	19 30 016 0252 19 30 016 0291 19 30 016 0292	 
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	1x M25 2x M25 2x M32	19 30 016 1256 19 30 016 1296	19 30 016 0297	 

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Surface mounted housing, With metal cover, Side entry, Han-Easy Lock® 	2x M25 2x M32	19 30 016 2296	19 30 016 7297	 
Han® B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M25 1x M32	19 30 016 1751 19 30 016 1752	19 30 016 0757	 
Han® B , Panel feed through housing, Top entry, Han-Easy Lock® 	1x M32 1x M40		19 30 016 1131 19 30 016 1132	 Panel cut out

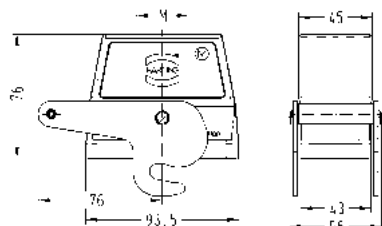
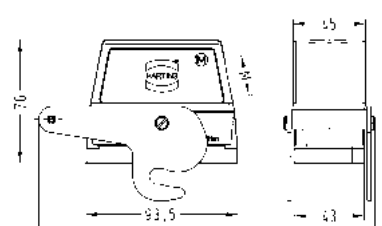
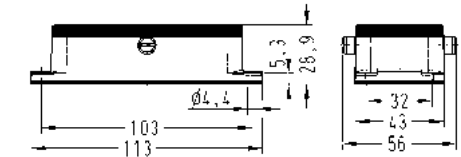
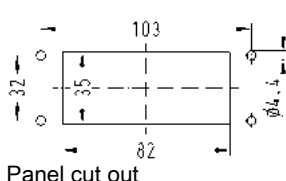
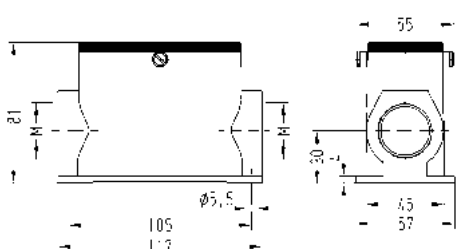


Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)	
		Low construction	High construction		
Han® B , Protection cover, for hoods, Metal, Han-Easy Lock® 		09 30 016 5432	09 30 016 5432		

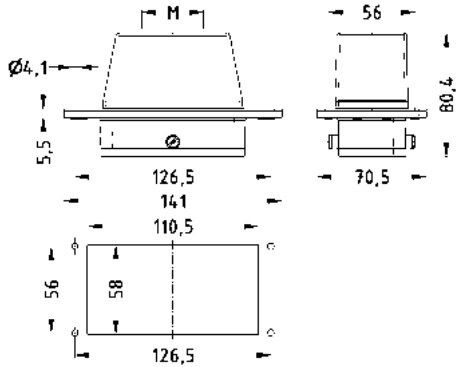
Standard hoods/housings for industrial connectors
Central locking lever (on the hood)

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M32		19 30 016 0487	
Han® B , Hoods, Side entry 	1x M25 1x M32		19 30 016 0586 19 30 016 0587	
Han® B , Bulkhead mounted housings 		09 30 016 0381		  Panel cut out
Han® B , Surface mounted housing, Side entry 	2x M32		19 30 016 0282	

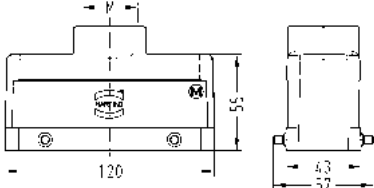
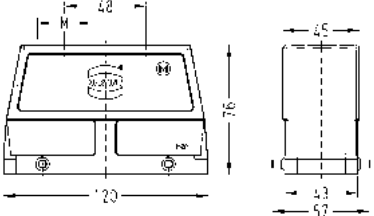
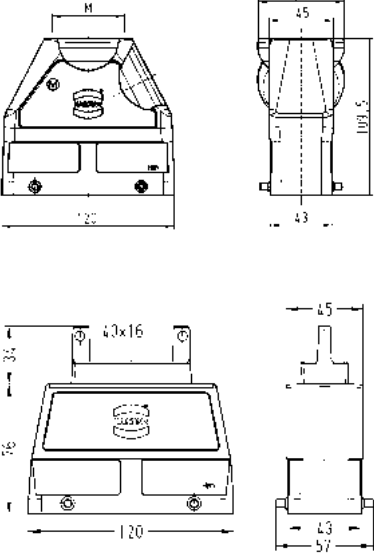


Housings

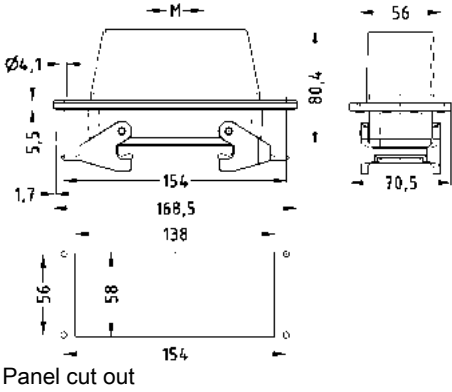
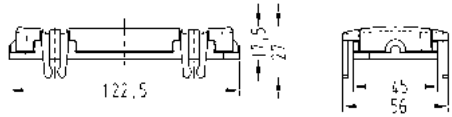
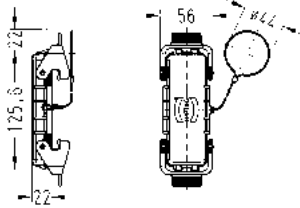
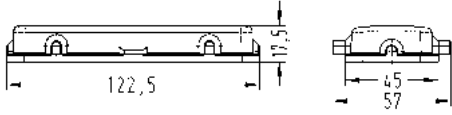
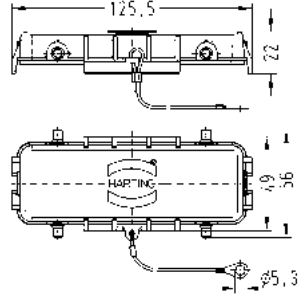
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Panel feed through housing, Top entry 	1x M32 1x M40		19 30 016 1141 19 30 016 1142	 Panel cut out

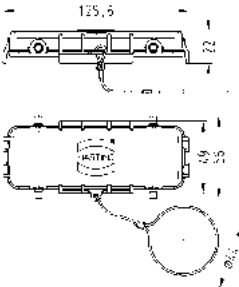
Standard hoods/housings for industrial connectors
Double locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M32 1x M40 2x M25 2x M32	19 30 024 1422	19 30 024 0427 19 30 024 0428 19 30 024 0466 19 30 024 0467	
Han® B , Hoods, Special type, Top entry 	1x M50		19 30 024 0429	
Han® B , Hoods, Flat cable entry, Top entry 			09 30 024 4411	

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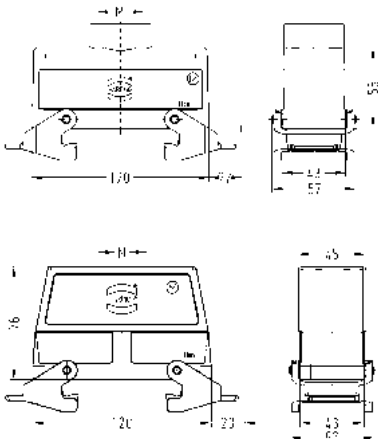
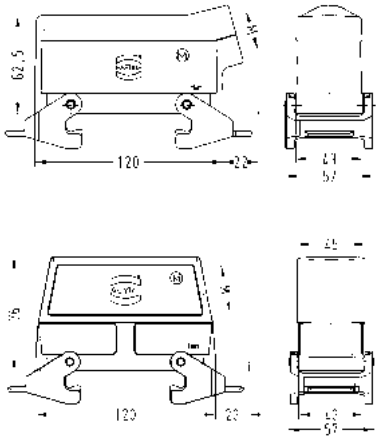
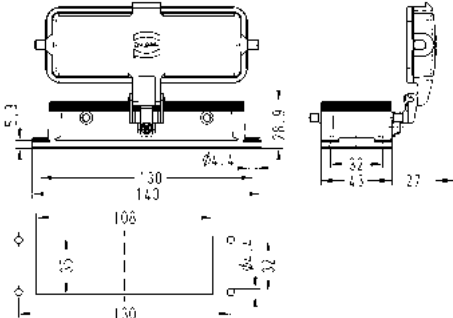
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Panel feed through housing, Top entry, Han-Easy Lock® 	1x M32 1x M40		19 30 024 1121 19 30 024 1122	
Han® B , Protection cover, for hoods, Thermoplastic, With board locks 		09 30 024 5401	09 30 024 5401	
Han® B , Protection cover, for hoods, Metal, With fixing cord, Han-Easy Lock® 		09 30 024 5422	09 30 024 5422	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic 		09 30 024 5405	09 30 024 5405	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 30 024 5425	09 30 024 5425	

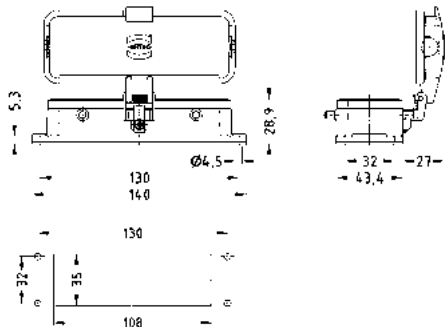
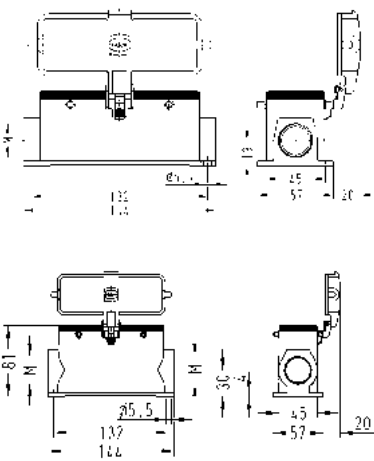
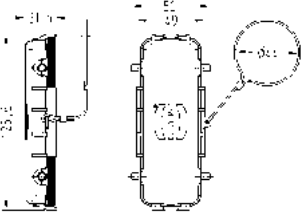
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han[®] B , Protection cover, for cable to cable housing, Metal, With fixing cord 		09 30 024 5426	09 30 024 5426	

Housings

Standard hoods/housings for industrial connectors
Double locking lever (on the hood)

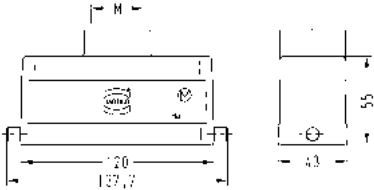
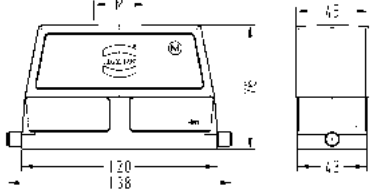
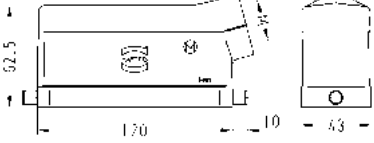
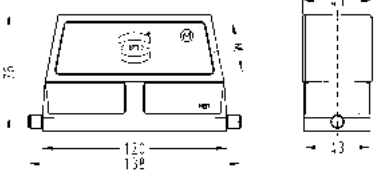
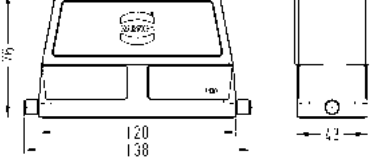
Housings

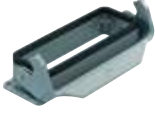
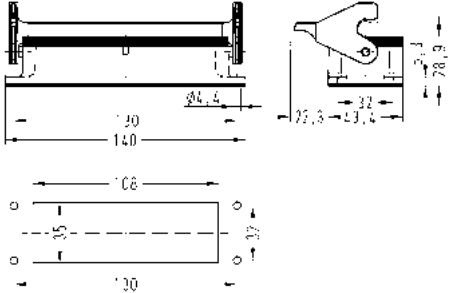
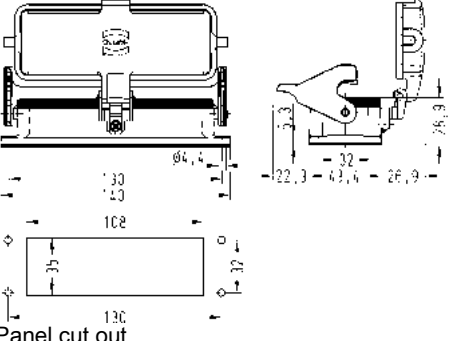
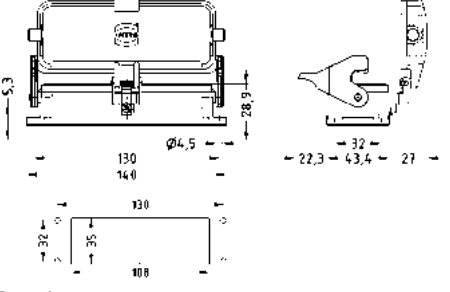
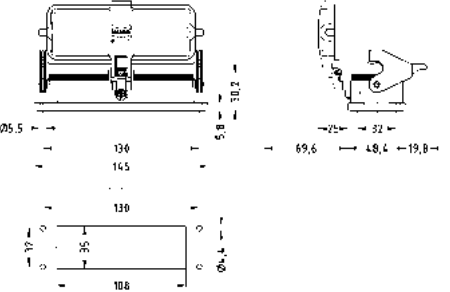
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry, Han-Easy Lock® 	1x M32 1x M40	19 30 024 1432	19 30 024 0437 19 30 024 0438	
Han® B , Hoods, Side entry, Han-Easy Lock® 	1x M25 1x M32 1x M40	19 30 024 1531	19 30 024 0537 19 30 024 0538	
Han® B , Bulkhead mounted housings, With thermo-plastic cover 		09 30 024 0302		 Panel cut out

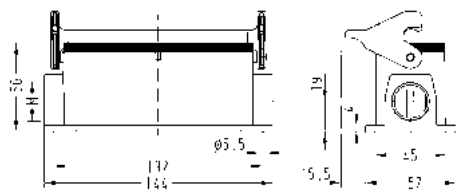
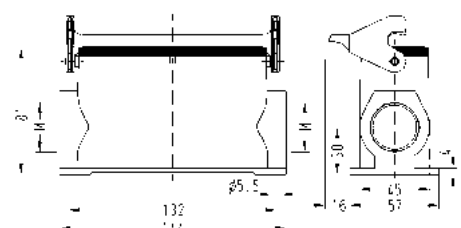
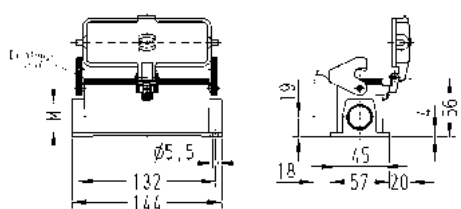
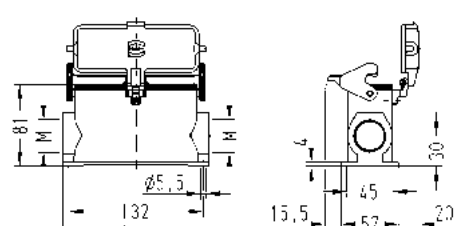
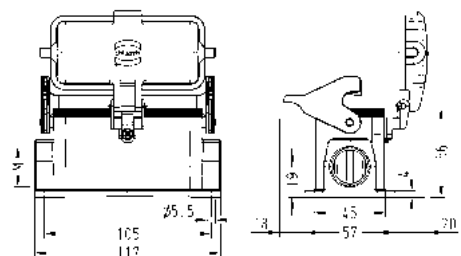
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With metal cover 		09 30 024 0317		 Panel cut out
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry 	1x M25 2x M25 2x M32	19 30 024 1226 19 30 024 1266	19 30 024 0267	
Han® B , Protection cover, for hoods, Metal, With fixing cord 		09 30 024 5442	09 30 024 5442	

Standard hoods/housings for industrial connectors
Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M32 1x M40 2x M25 2x M32	19 30 024 1442	19 30 024 0447 19 30 024 0448 19 30 024 0456 19 30 024 0457	    
Han® B , Hoods, Side entry 	1x M25 1x M32 1x M40	19 30 024 1541 19 30 024 1542	19 30 024 0547 19 30 024 0548	
Han® B , Hoods, Without cable entry 			09 30 024 0803	

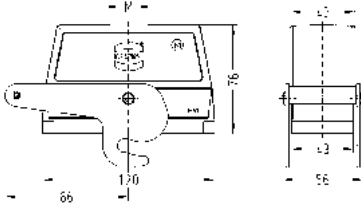
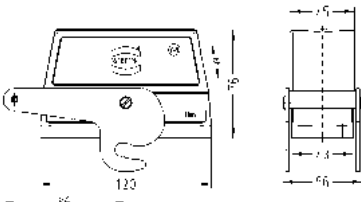
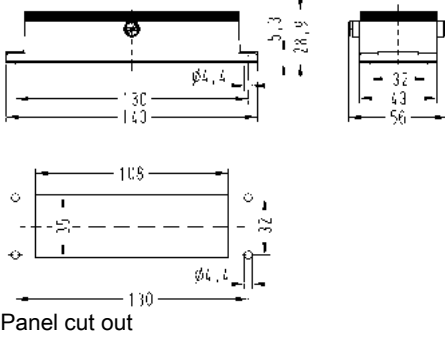
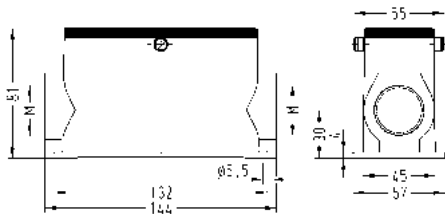
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 024 0307 09 30 024 1307		 Panel cut out
Han® B , Bulkhead mounted housings, With thermo-plastic cover, Han-Easy Lock® 		09 30 024 0304		 Panel cut out
Han® B , Bulkhead mounted housings, With metal cover, Han-Easy Lock® 		09 30 024 0318		 Panel cut out
Han® B , Bulkhead mounted housings, With self-closing cover, Han-Easy Lock® 		09 30 024 1306		 Panel cut out

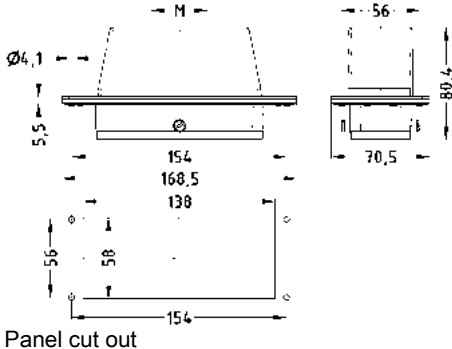
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M25 2x M25 2x M32	19 30 024 1251 19 30 024 1291	19 30 024 0292	 
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	1x M25 2x M25 2x M32	19 30 024 1256 19 30 024 1296	19 30 024 0297	 
Han® B , Surface mounted housing, With metal cover, Side entry, Han-Easy Lock® 	2x M25 2x M32	19 30 024 2296	19 30 024 7297	 

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Standard hoods/housings for industrial connectors
Central locking lever (on the hood)

Housings

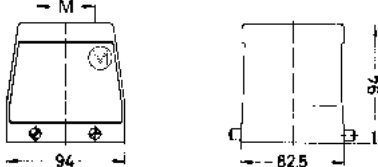
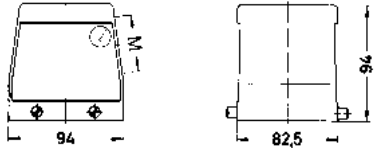
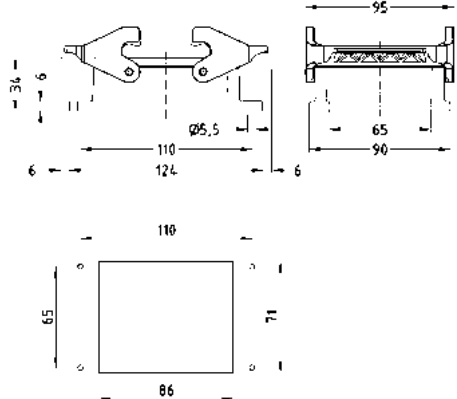
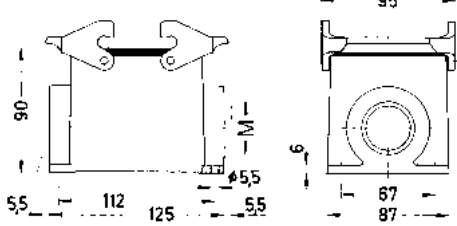
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M32		19 30 024 0487	
Han® B , Hoods, Side entry 	1x M25 1x M32 1x M40		19 30 024 0586 19 30 024 0587 19 30 024 0588	
Han® B , Bulkhead mounted housings 		09 30 024 0381		 Panel cut out
Han® B , Surface mounted housing, Side entry 	2x M32		19 30 024 0282	

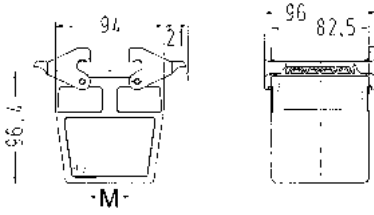
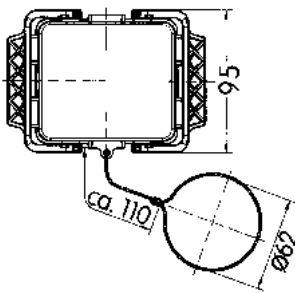
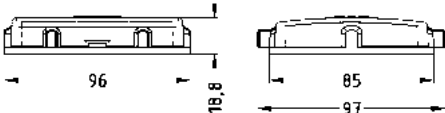
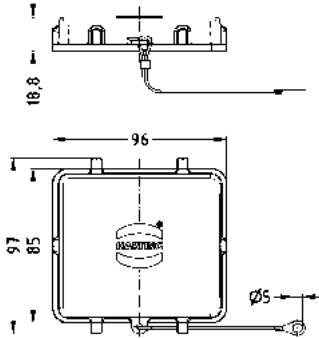
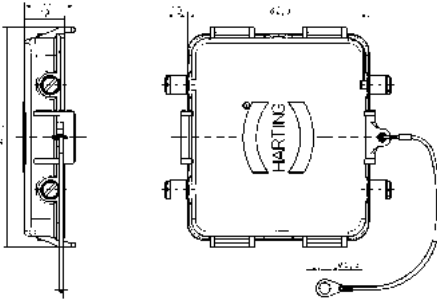
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Panel feed through housing, Top entry 	1x M32 1x M40		19 30 024 1141 19 30 024 1142	 Panel cut out

Housings

Standard hoods/housings for industrial connectors
Double locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M32 1x M40 1x M50		19 30 032 0427 19 30 032 0428 19 30 032 0429	
Han® B , Hoods, Side entry 	1x M32 1x M40 1x M50		19 30 032 0527 19 30 032 0528 19 30 032 0529	
Han® B , Bulkhead mounted housings, Han-Easy Lock® 		09 30 032 0301		 Panel cut out
Han® B , Surface mounted housing, Side entry, Han-Easy Lock® 	1x M32 2x M32 2x M40		19 30 032 0232 19 30 032 0272 19 30 032 0273	

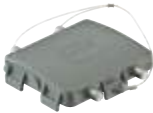
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M40		19 30 032 0738	
Han® B , Protection cover, for hoods, Metal, With fixing cord 		09 30 032 5420	09 30 032 5420	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic 		09 30 032 5405	09 30 032 5405	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Thermoplastic, With fixing cord 		09 30 032 5406	09 30 032 5406	
Han® B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 30 032 5425	09 30 032 5425	



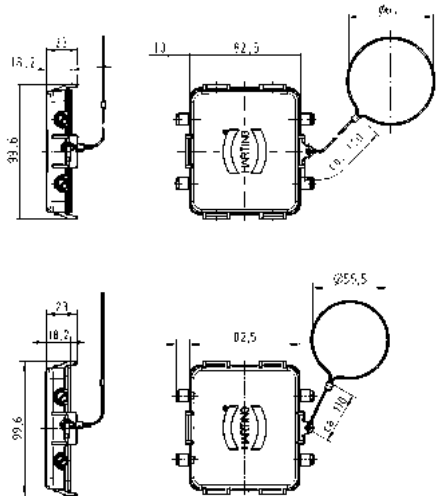
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	

Han® B ,
Protection cover,
for cable to cable housing,
Metal,
With fixing cord

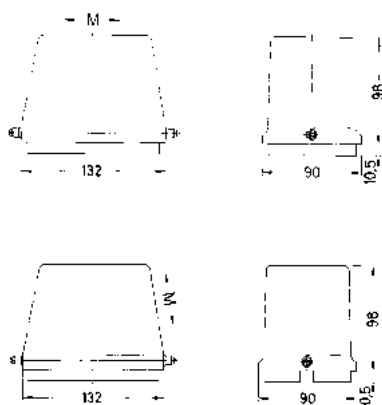
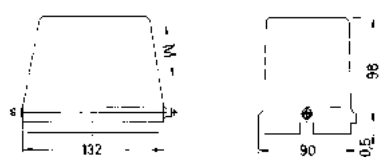
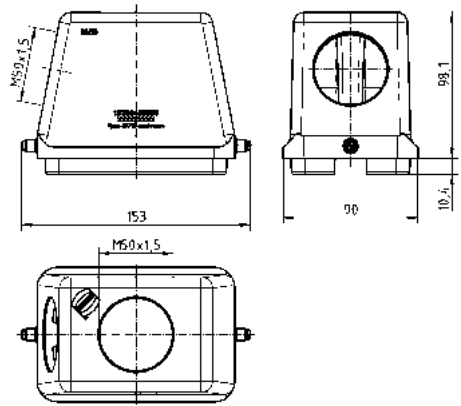
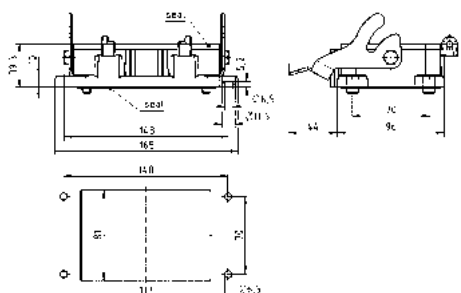


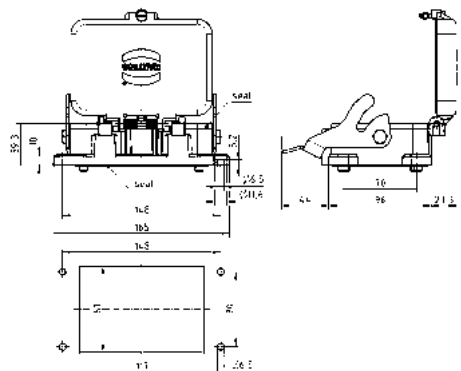
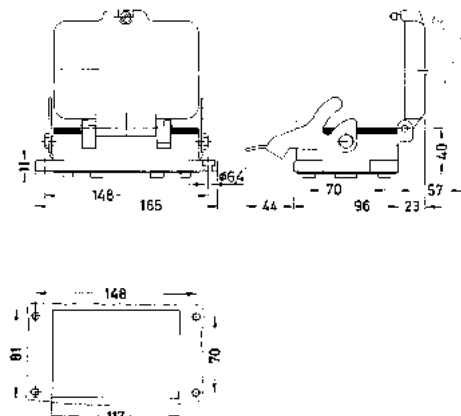
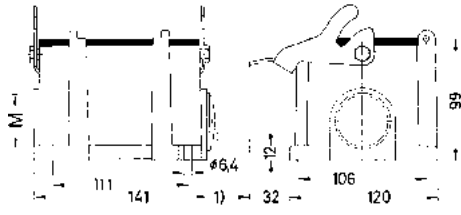
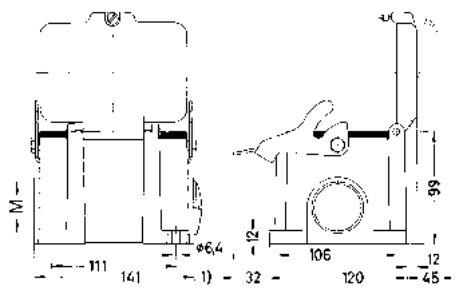
09 30 032 5426	09 30 032 5426
09 30 032 5427	09 30 032 5427



Standard hoods/housings for industrial connectors
Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Hoods, Top entry 	1x M40 1x M50 1x M63		19 30 048 0448 19 30 048 0449 19 30 048 0450	
Han® B , Hoods, Side entry 	1x M40 1x M50		19 30 048 0548 19 30 048 0549	
Han® B , Hoods, Top/side entry 	1x M50, 1x M50		19 30 048 0599	
Han® B , Bulkhead mounted housings 		09 30 048 0302		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® B , Bulkhead mounted housings, With thermo-plastic cover 		09 30 048 0301		 Panel cut out
Han® B , Bulkhead mounted housings, With metal cover 		09 30 048 0317		 Panel cut out
Han® B , Surface mounted housing, Side entry 	2x M32 2x M40		19 30 048 0292 19 30 048 0293	
Han® B , Surface mounted housing, With thermo-plastic cover, Side entry 	2x M40		19 30 048 0298	

Features

- Hoods/housings for industrial applications

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
RoHS	compliant

Specifications and approvals

DNV GL

Housings



Double locking lever

Housings

Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
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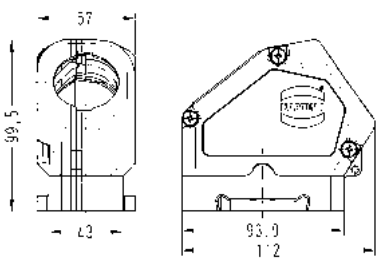
Han® Easy Hood ,
Hoods,
Side entry



1x Integrated

20 ... 34

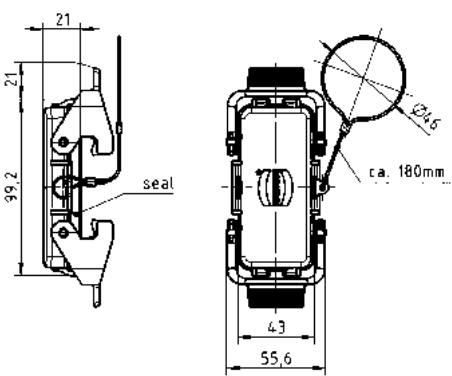
11 30 016 0520



Han® Easy Hood ,
Protection cover,
for hoods,
Metal,
With fixing cord,
Han-Easy Lock®

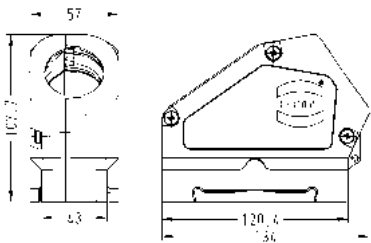


11 30 016 5422



Double locking lever

Housings

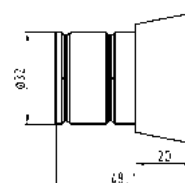
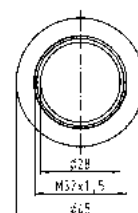
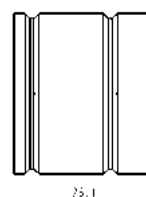
Identification	Cable entry	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Han® Easy Hood , Hoods, Side entry 	1x Integrated	20 ... 34	11 30 024 0520	

Thermoplastic
Thermoplastic

Technical characteristics

Black
compliant

Drawing
(dimensions in mm)



Features

- Angled housing replaces the terminal box
- Compact design saves space
- The position of the terminal housing can be switched by 90°
- Compatible with standard hoods for single lever size 10 B
- Locking levers: Han-Easy Lock®
- Star and delta circuits can be realised in the female connector Han® ESS
- Suitable for standard inserts

Technical characteristics

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Uncoated, Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant

Specifications and approvals

DNV GL

Housings

Single locking lever

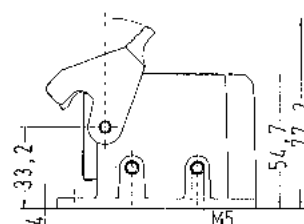
Housings

Identification	Part number	Drawing (dimensions in mm)
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Han-Drive®,
Housing for motor applications,
Han-Easy Lock®



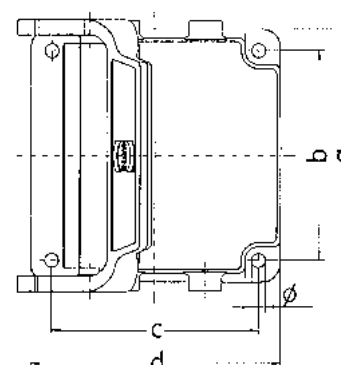
09 30 410 0901
09 30 410 0909
09 30 410 0921



Han-Drive®,
Housing for motor applications,
With thermo-plastic cover,
Han-Easy Lock®



09 30 410 0951
09 30 410 0960
09 30 410 0970
09 30 410 0971
09 30 410 0974
09 30 410 0983



Han-Drive®,
Housing for motor applications,
Powder-coated,
Han-Easy Lock®



09 30 010 0901
09 30 010 0902

Han-Drive®,
Housing for motor applications,
Powder-coated,
With thermo-plastic cover,
Han-Easy Lock®



09 30 010 0961

	a	b	c	d	Ø
09 30 010 0901	82	68	68	82	4,5
09 30 010 0902	98			98	
09 30 010 0961	82	70	70	82	
09 30 410 0901	82	68	68	82	4,5
09 30 410 0909	98			98	
09 30 410 0921	85	73	73	85	
09 30 410 0951	82	68	68	82	4,5
09 30 410 0960	98	70	70	98	4,3
09 30 410 0970	92	77	77	92	4,3
09 30 410 0971	85	73	73	85	5,5
09 30 410 0974	92	70	70	92	4,3
09 30 410 0983	92	80	80	92	5,1
09 62 810 0901	82	68	68	82	4,5
09 62 810 0974	92	70	70	92	4,1

Single locking lever

Housings

Identification

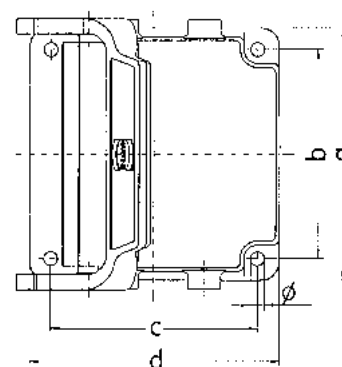
Part number

Drawing
(dimensions in mm)

Han-Drive®,
Housing for motor applications,
EMC version,
Han-Easy Lock®



09 62 810 0901



Han-Drive®,
Housing for motor applications,
EMC version,
With thermo-plastic cover,
Han-Easy Lock®



09 62 810 0974

	a	b	c	d	Ø
09 30 010 0901	82	68	68	82	4,5
09 30 010 0902	98			98	
09 30 010 0961	82	70	70	82	
09 30 410 0901	82	68	68	82	4,5
09 30 410 0909	98			98	
09 30 410 0921	85	73	73	85	
09 30 410 0951	82	68	68	82	4,5
09 30 410 0960	98	70	70	98	4,3
09 30 410 0970	92	77	77	92	4,3
09 30 410 0971	85	73	73	85	5,5
09 30 410 0974	92	70	70	92	4,3
09 30 410 0983	92	80	80	92	5,1
09 62 810 0901	82	68	68	82	4,5
09 62 810 0974	92	70	70	92	4,1

Features

- Hoods/housings for rough environments
- Metal hoods and housings with excellent corrosion resistance
- Corrosion resistance ASTM B117-09 (500 h)
- Locking lever made of high-quality stainless steel

Technical characteristics

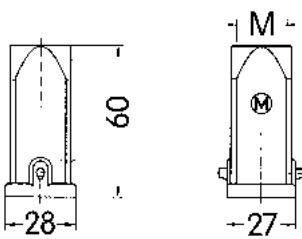
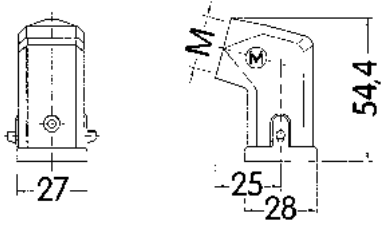
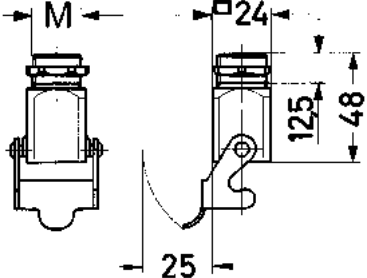
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP44, IP65 / IP67, with seal screw 09 20 000 9918
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	FPM
Material (locking)	Stainless steel
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

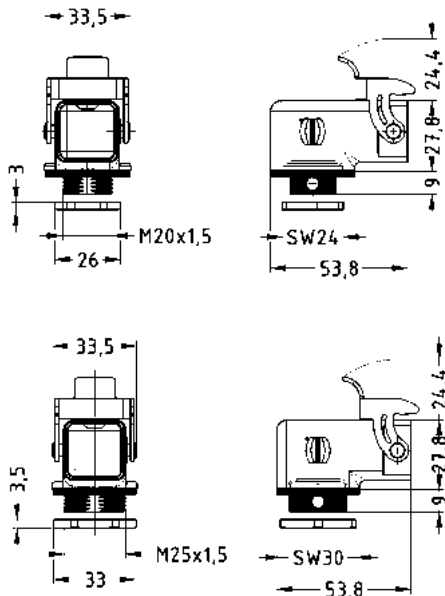
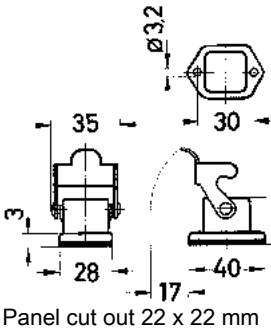
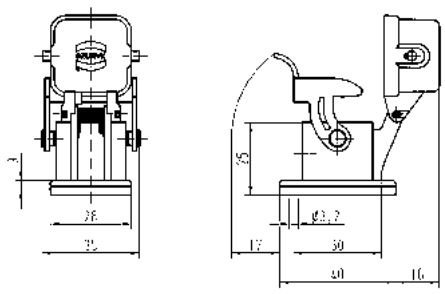
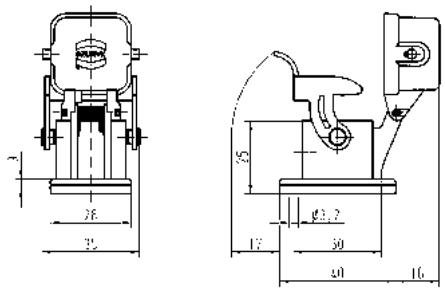
DNV GL

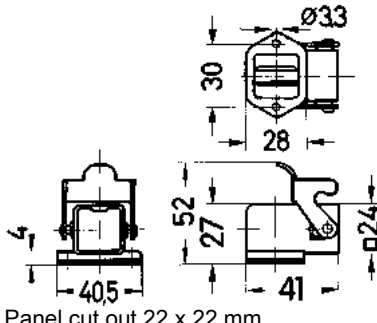
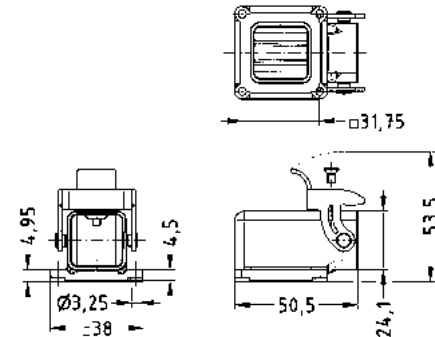
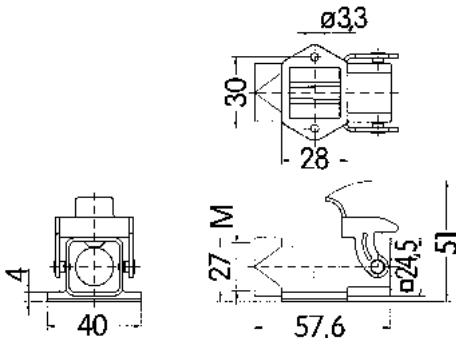
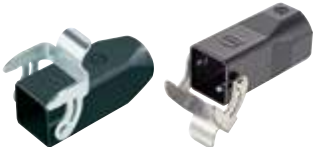
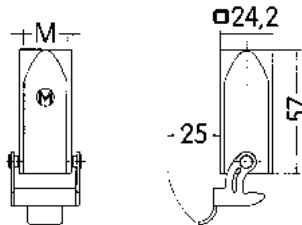
Hoods/housings for rough environments
Single locking lever

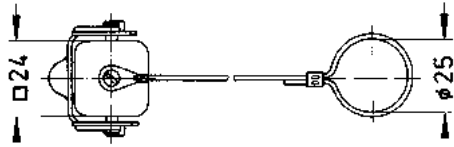
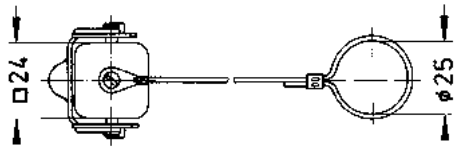
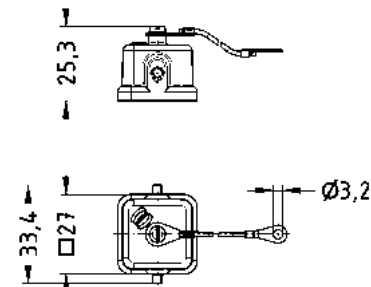
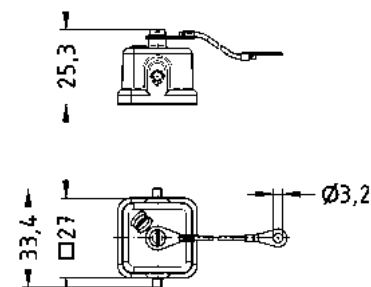
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® M , Hoods, Top entry 	1x M20 1x M25	19 37 003 1440 19 37 003 1445	
Han® M , Hoods, Side entry 	1x M20	19 37 003 1640	
Han® M , Screw mounted housings 	1x M20	19 37 003 1150	

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® M , Screw mounted housings, Angled 	1x M20 1x M25	19 37 003 1160 19 37 003 1165	
Han® M , Bulkhead mounted housings, Straight 		09 37 003 0301	
Han® M , Bulkhead mounted housings, Straight, With metal cover, With seal 		09 37 003 0305	
for male inserts			
Han® M , Bulkhead mounted housings, Straight, With metal cover, With seal 		09 37 003 0306	
for female inserts			

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® M , Bulkhead mounted housings, Angled 		09 37 003 0801	 Panel cut out 22 x 22 mm
Han® M , Bulkhead mounted housings, Angled, Square mounting flange 		09 37 003 0811	
Han® M , Surface mounted housing, Top entry 	1x M20	19 37 003 1250	 Panel cut out 22 x 22 mm
Han® M , Cable to cable housing, Top entry 	1x M20 1x M25	19 37 003 1750 19 37 003 1755	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® M , Protection cover, for hoods, Metal, With fixing cord  for mounted female insert		09 37 003 5401	
Han® M , Protection cover, for hoods, Metal, With fixing cord  for mounted male insert		09 37 003 5402	
Han® M , Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Metal, With fixing cord  for mounted female insert		09 37 003 5405	
Han® M , Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Metal, With fixing cord  for mounted male insert		09 37 003 5406	

Features

- Hoods/housings for rough environments
- Metal hoods and housings with excellent corrosion resistance
- Corrosion resistance ASTM B117-09 (500 h)
- Locking lever made of high-quality stainless steel

Technical characteristics

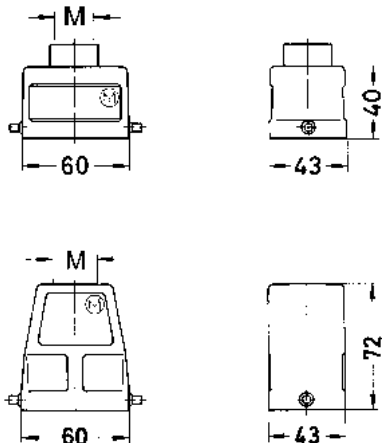
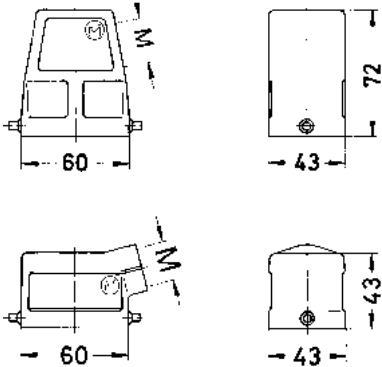
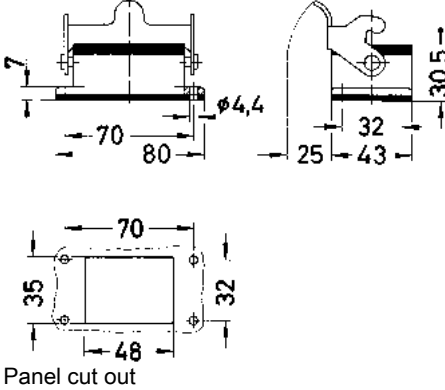
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	FPM
Material (locking)	Stainless steel, Polycarbonate
Colour (locking)	RAL 7037 (dust grey)
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant

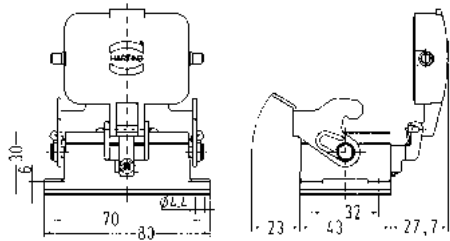
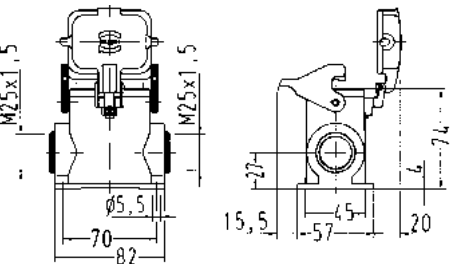
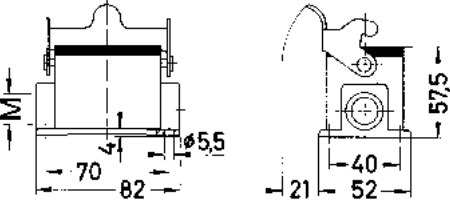
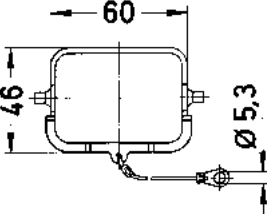
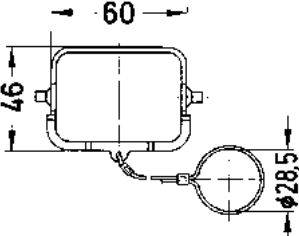
Specifications and approvals

UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Hoods/housings for rough environments
Single locking lever

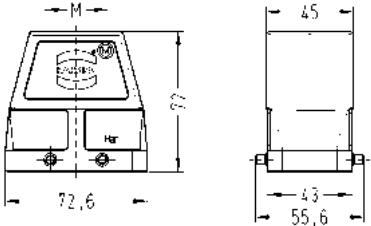
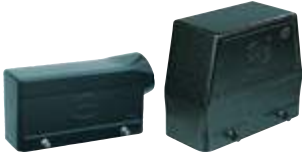
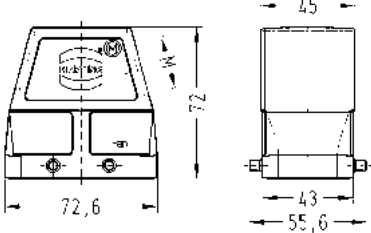
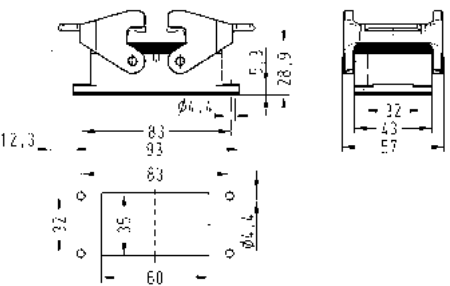
Housings

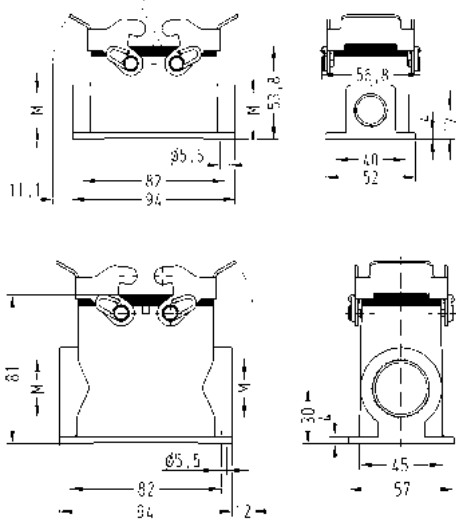
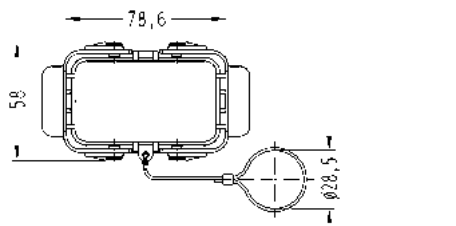
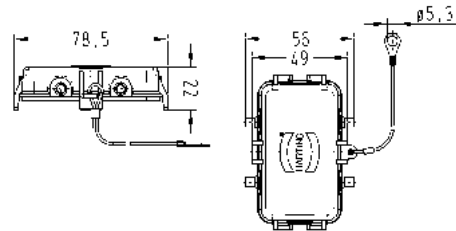
Identification	Cable entry	Part number		Drawing (dimensions in mm)	
		Low construction	High construction		
Han® M , Hoods, Top entry 	1x M20 1x M25 1x M32	19 37 006 1440	19 37 006 0445 19 37 006 0446 19 37 006 0447		
Han® M , Hoods, Side entry 	1x M20 1x M25	19 37 006 1540	19 37 006 0545 19 37 006 0546		
Han® M , Bulkhead mounted housings 		09 37 006 0301		 Panel cut out	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Bulkhead mounted housings, With metal cover 		09 37 006 0318		
Han® M , Surface mounted housing, With thermo-plastic cover, Side entry, Han-Easy Lock® 	2x M25		19 37 006 0296	
Han® M , Surface mounted housing, Side entry 	2x M20	19 37 006 1290		
Han® M , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal 		09 37 006 5405	09 37 006 5405	
Han® M , Protection cover, for cable to cable housing, Metal 		09 37 006 5407	09 37 006 5407	

Hoods/housings for rough environments
Double locking lever

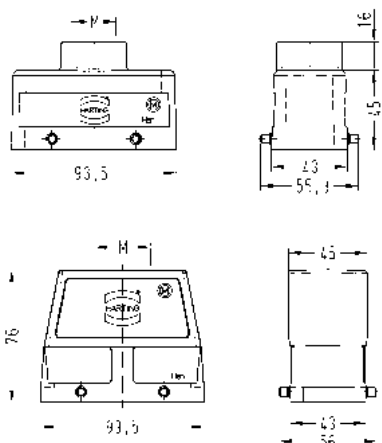
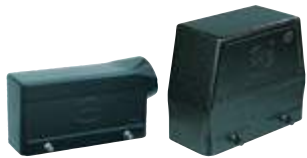
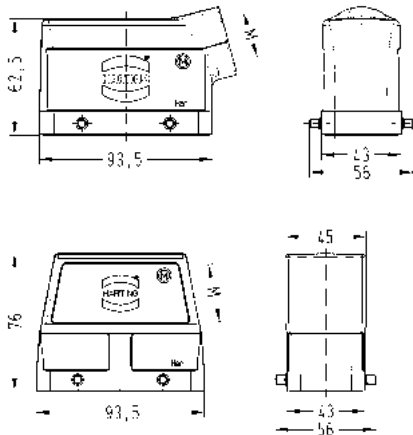
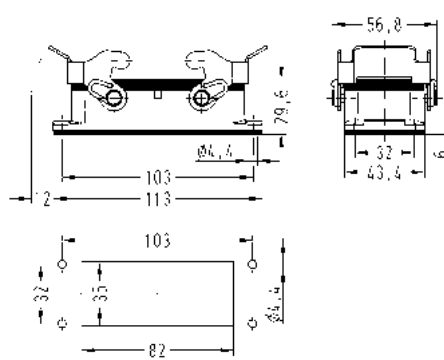
Housings

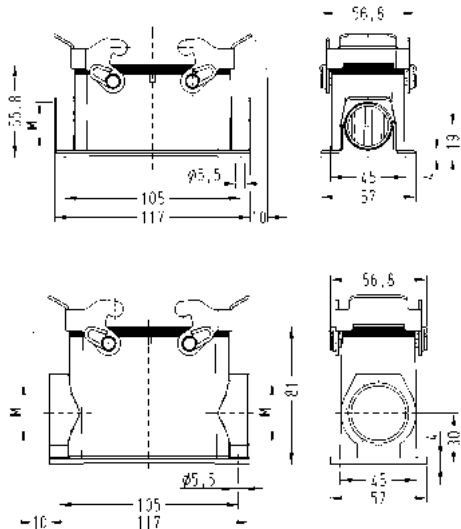
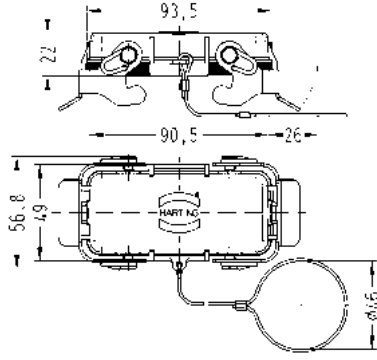
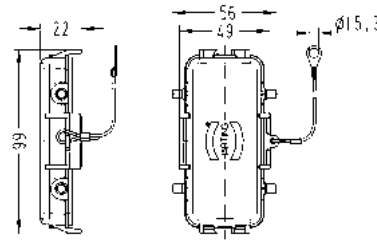
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Hoods, Top entry 	1x M20 1x M25 1x M32 2x M20	19 37 010 1420	19 37 010 0426 19 37 010 0427 19 37 010 0465	
Han® M , Hoods, Side entry 	1x M20 1x M25 1x M32 1x M40	19 37 010 1520	19 37 010 0526 19 37 010 0527 19 37 010 0528	
Han® M , Bulkhead mounted housings 		09 37 010 0301		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Surface mounted housing, Side entry 	2x M20 2x M32	19 37 010 1270	19 37 010 0272	
Han® M , Protection cover, for hoods, Metal, With fixing cord 		09 37 010 5403	09 37 010 5403	
Han® M , Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Metal, With fixing cord 		09 37 010 5405	09 37 010 5405	

Hoods/housings for rough environments
Double locking lever

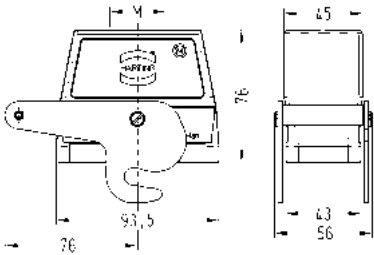
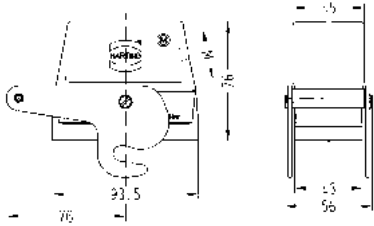
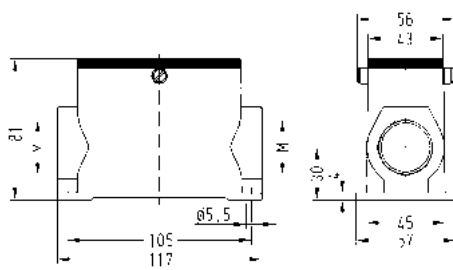
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Hoods, Top entry 	1x M25 1x M32	19 37 016 1421	19 37 016 0427	
Han® M , Hoods, Side entry 	1x M25 1x M32 1x M40	19 37 016 1521	19 37 016 0527 19 37 016 0528	
Han® M , Bulkhead mounted housings 		09 37 016 0301		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Surface mounted housing, Side entry 	1x M25 2x M32 2x M40	19 37 016 1231	19 37 016 0272 19 37 016 0273	
Han® M , Protection cover, for hoods, Metal, With fixing cord 		09 37 016 5402	09 37 016 5402	
Han® M , Protection cover, for bulkhead mounted housings, for cable to cable housing, Metal, With fixing cord 		09 37 016 5405	09 37 016 5405	

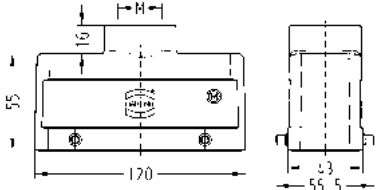
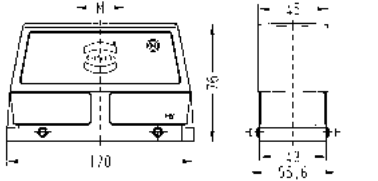
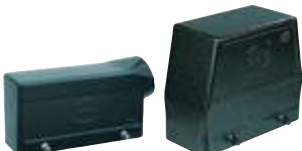
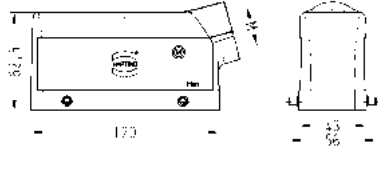
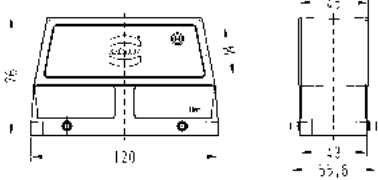
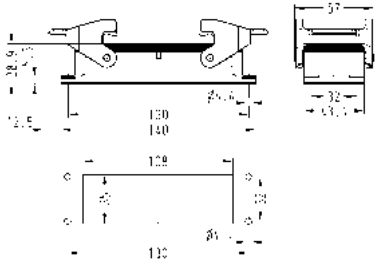
Hoods/housings for rough environments
Central locking lever (on the hood)

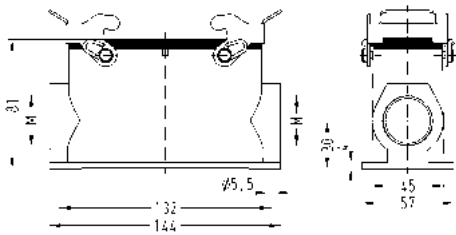
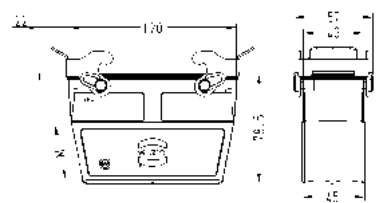
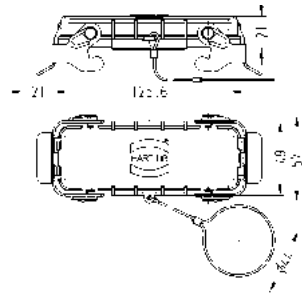
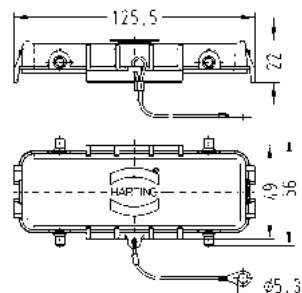
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® M , Hoods, Top entry 	1x M32	19 37 016 0487	
Han® M , Hoods, Side entry 	1x M32	19 37 016 0587	
Han® M , Surface mounted housing, Side entry 	2x M32	19 37 016 0282	

Hoods/housings for rough environments
Double locking lever

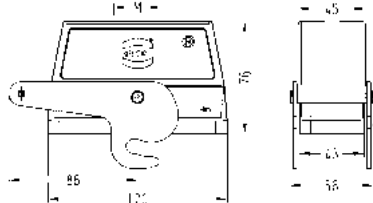
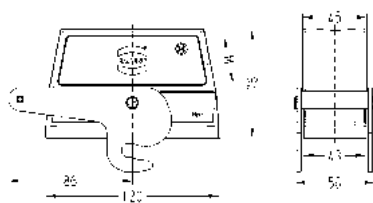
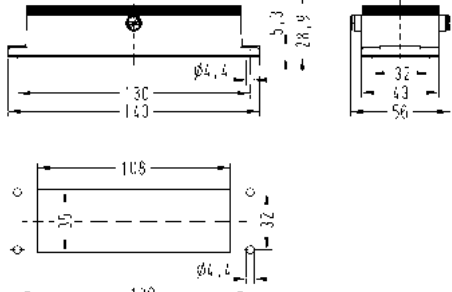
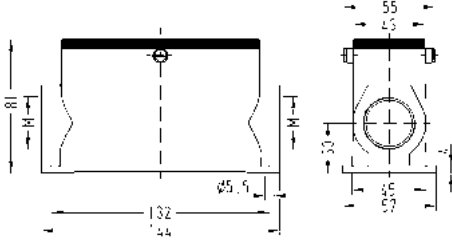
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Hoods, Top entry 	1x M25 1x M32 1x M40 2x M25 2x M32	19 37 024 1421	19 37 024 0427 19 37 024 0428 19 37 024 0466 19 37 024 0467	 
Han® M , Hoods, Side entry 	1x M25 1x M32 1x M40	19 37 024 1521	19 37 024 0527 19 37 024 0528	 
Han® M , Bulkhead mounted housings 		09 37 024 0301		 Panel cut out

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Surface mounted housing, Side entry 	2x M32		19 37 024 0272	
Han® M , Cable to cable housing, Side entry 	1x M40		19 37 024 0733	
Han® M , Protection cover, for hoods, Metal, With fixing cord 		09 37 024 5402	09 37 024 5402	
Han® M , Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Metal, With fixing cord 		09 37 024 5405	09 37 024 5405	

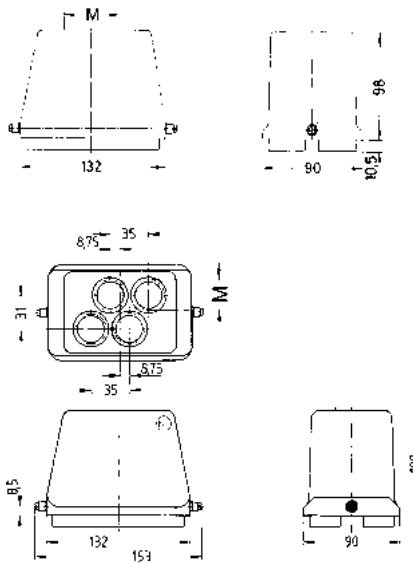
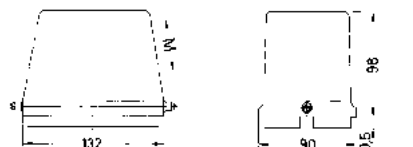
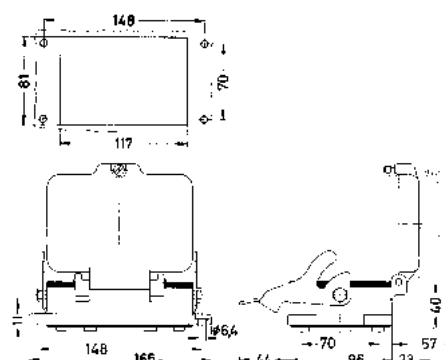
Hoods/housings for rough environments
Central locking lever (on the hood)

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Hoods, Top entry 	1x M32		19 37 024 0487	
Han® M , Hoods, Side entry 	1x M32		19 37 024 0587	
Han® M , Bulkhead mounted housings 		09 37 024 0381		 Panel cut out
Han® M , Surface mounted housing, Side entry 	2x M32		19 37 024 0282	

Hoods/housings for rough environments
Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® M , Hoods, Top entry 	1x M40 1x M50 4x M25		19 37 048 0448 19 37 048 0449 19 37 048 0401	
Han® M , Hoods, Side entry 	1x M40		19 37 048 0548	
Han® M , Bulkhead mounted housings, With thermo-plastic cover 		09 37 048 0301		

Features

- Hoods/Housings for higher EMC requirements
- Continuous shield connection using conductive surface and conductive seal
- Metal hoods / housings with high shielding efficiency
- Field of application: for sensitive interconnections that have to be shielded against electrical, magnetic or electro-magnetic interferences
- Distinguishing feature: Electrically conductive surface, internal seal

Technical characteristics

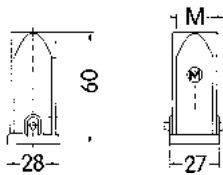
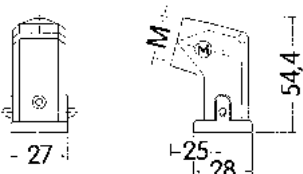
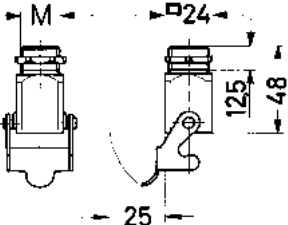
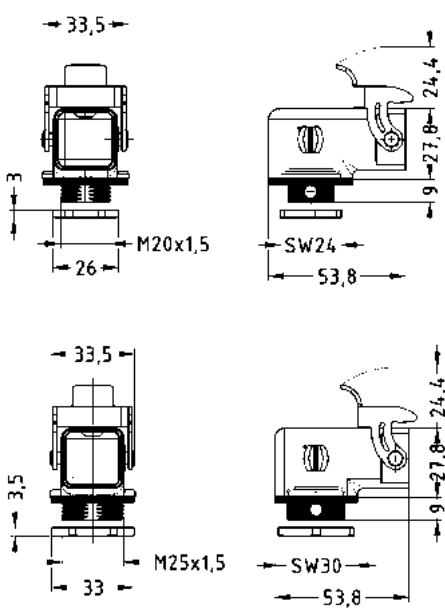
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP44, IP65 / IP67, with seal screw 09 20 000 9918
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Uncoated
Colour (hood/housing)	Unpainted
Material (seal)	PTFE, NBR
Material (locking)	Steel
Surface (locking)	Zinc plated
RoHS	compliant, compliant with exemption
RoHS exemptions	6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight, 6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

DNV GL

Hoods/Housings for higher EMC requirements
Single locking lever

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Hoods, Top entry 	1x M20 1x M25	19 62 003 1440 19 62 003 1445	
Han® EMC , Hoods, Side entry 	1x M20	19 62 003 1640	
Han® EMC , Screw mounted housings, Straight 	1x M20	19 62 003 1150	
Han® EMC , Screw mounted housings, Angled 	1x M20 1x M25	19 62 003 1160 19 62 003 1165	

Identification

Cable entry

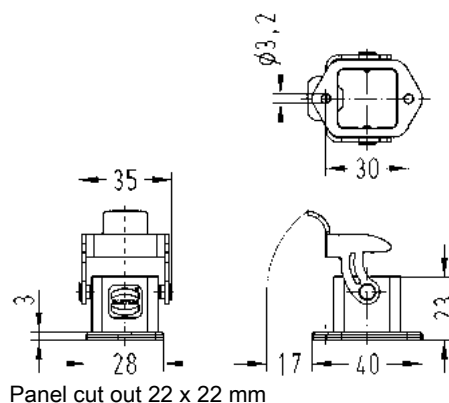
Part number

Drawing
(dimensions in mm)

Han® EMC ,
Bulkhead mounted housings,
Straight



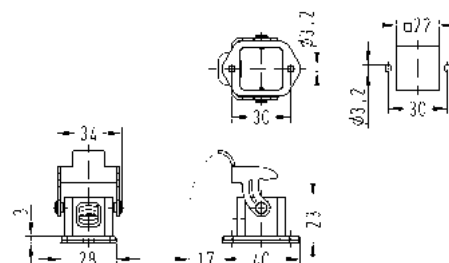
09 62 003 0301



Han® EMC ,
Bulkhead mounted housings,
Straight,
for PCB termination with Han® Q 5/0



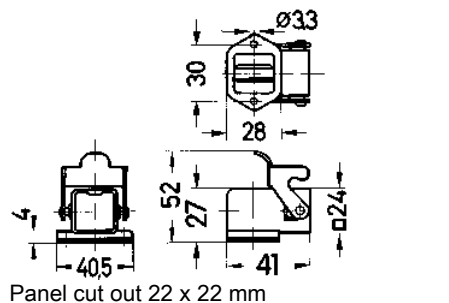
09 62 003 0304



Han® EMC ,
Bulkhead mounted housings,
Angled



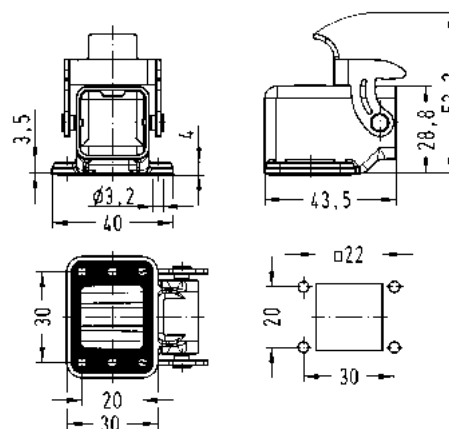
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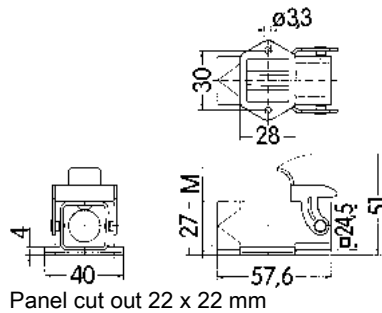
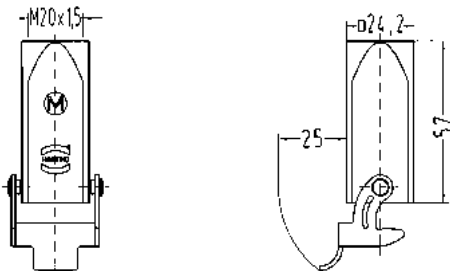
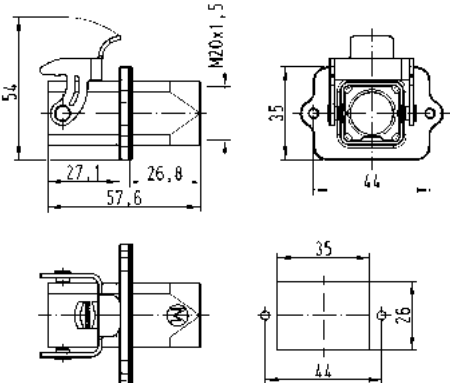


Han® EMC ,
Bulkhead mounted housings,
Angled,
4 fixing screws



09 62 003 0810



Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Surface mounted housing, Top entry 	1x M20	19 62 003 1250	
Han® EMC , Cable to cable housing, Top entry 	1x M20 1x M25	19 62 003 1750 19 62 003 1755	
Han® EMC , Panel feed through housing, Top entry 	1x M20	19 62 003 1120	

Features

- Hoods/Housings for higher EMC requirements
- Continuous shield connection using conductive surface
- Metal hoods / housings with high shielding efficiency
- Field of application: for sensitive interconnections that have to be shielded against electrical, magnetic or electro-magnetic interferences
- Distinguishing feature: Electrically conductive surface, internal seal

Technical characteristics

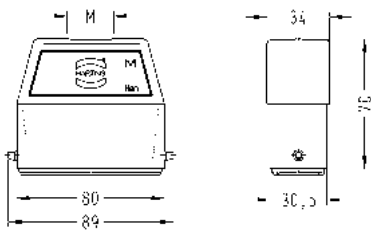
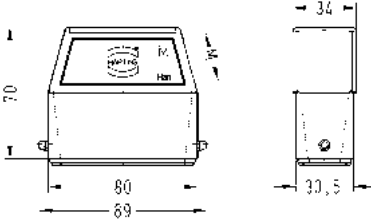
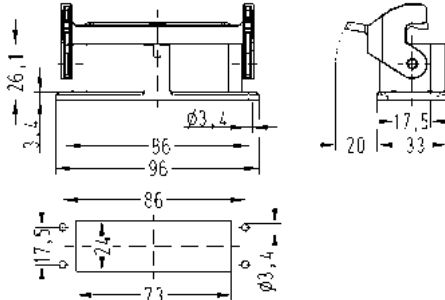
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Uncoated
Colour (hood/housing)	Unpainted
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant

Specifications and approvals

UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

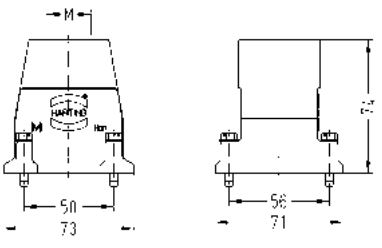
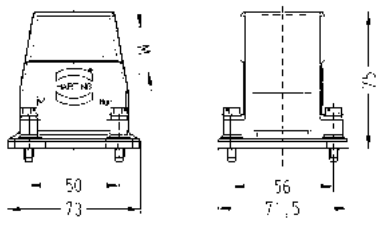
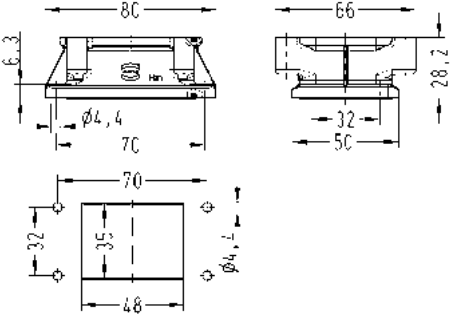
Hoods/Housings for higher EMC requirements
Single locking lever

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Hoods, Top entry 	1x M25	19 62 025 0446	
Han® EMC , Hoods, Side entry 	1x M25	19 62 025 0546	
Han® EMC , Bulkhead mounted housings, Han-Easy Lock® 		09 62 025 0301	 Panel cut out

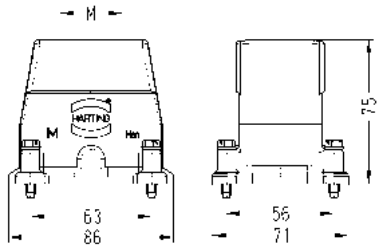
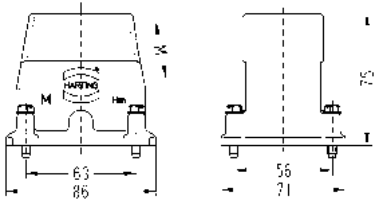
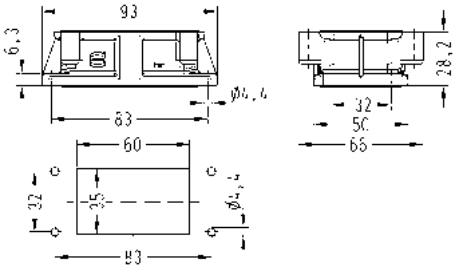
Hoods/Housings for higher EMC requirements
Screw locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Hoods, Top entry 	1x M25 1x M32	19 62 006 0441 19 62 006 0442	
Han® EMC , Hoods, Side entry 	1x M25 1x M32	19 62 006 0541 19 62 006 0542	
Han® EMC , Bulkhead mounted housings 		09 62 006 0301	 Panel cut out

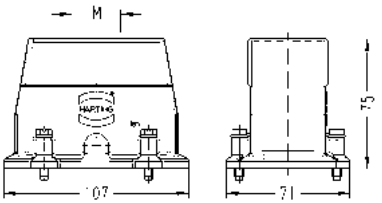
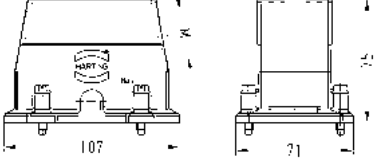
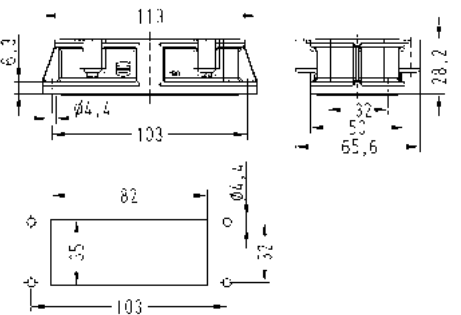
Hoods/Housings for higher EMC requirements
Screw locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Hoods, Top entry 	1x M32	19 62 010 0442	
Han® EMC , Hoods, Side entry 	1x M32 1x M40	19 62 010 0542 19 62 010 0543	
Han® EMC , Bulkhead mounted housings 		09 62 010 0301	 Panel cut out

Hoods/Housings for higher EMC requirements
Screw locking

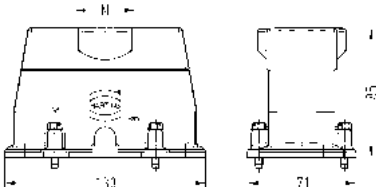
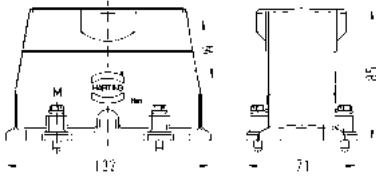
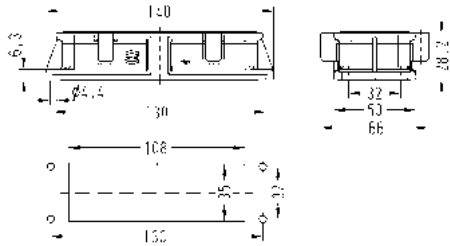
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Hoods, Top entry 	1x M32	19 62 040 0442	
Han® EMC , Hoods, Side entry 	1x M32	19 62 040 0542	
Han® EMC , Bulkhead mounted housings 		09 62 040 0301	 Panel cut out



Hoods/Housings for higher EMC requirements
Screw locking

Housings

Identification		Cable entry	Part number	Drawing (dimensions in mm)
Han® EMC , Hoods, Top entry		1x M40	19 62 064 0443	
		1x M40	19 62 064 0543	
Han® EMC , Bulkhead mounted housings			09 62 064 0301	 Panel cut out

Features

- Hoods/Housings for higher EMC requirements
- Continuous shield connection using conductive surface
- Metal hoods / housings with high shielding efficiency
- Field of application: for sensitive interconnections that have to be shielded against electrical, magnetic or electro-magnetic interferences
- Distinguishing feature: Electrically conductive surface, internal seal
- Locking levers: Han-Easy Lock®

Technical characteristics

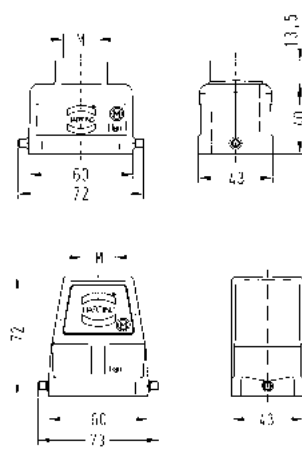
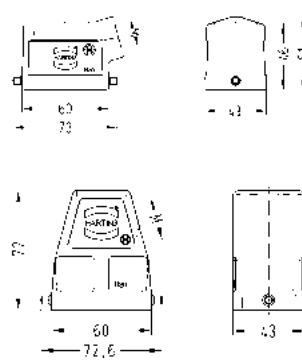
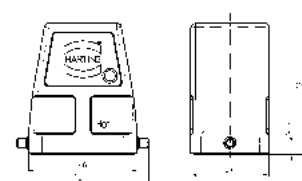
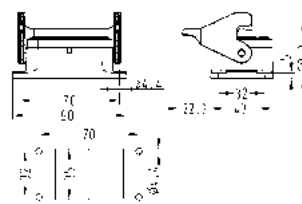
Limiting temperature	-40 ... +125 °C, -40 ... +200 °C With Han® High Temp components
Degree of protection acc. to IEC 60529	IP65
Type rating acc. to UL 50 / UL 50E	4, 12
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Uncoated
Colour (hood/housing)	Unpainted
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Colour (locking)	RAL 7037 (dust grey)
Material flammability class acc. to UL 94 (locking levers)	V-0
RoHS	compliant

Specifications and approvals

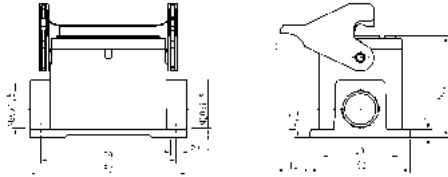
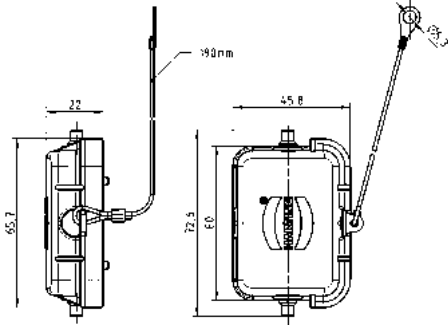
UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

Single locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B Han® High Temp , Hoods, Top entry 	1x M20 1x M25 1x M32	19 62 806 1440	19 62 806 0446 19 62 806 0447	
Han® EMC/B Han® High Temp , Hoods, Side entry 	1x M20 1x M25 1x M32	19 62 806 1540	19 62 806 0546 19 62 806 0547	
Han® EMC/B Han® High Temp , Hoods, Without cable entry 			09 62 806 0801	
Han® EMC/B , Bulkhead mounted housings, Han-Easy Lock® 		09 62 806 0301		 Panel cut out

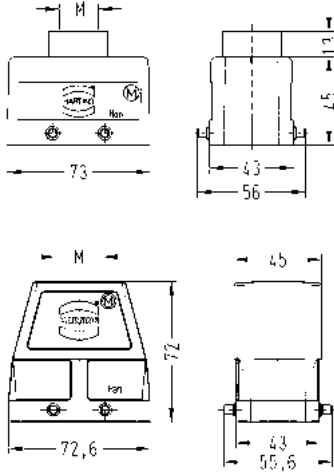
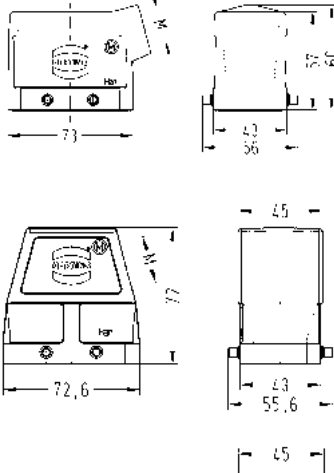
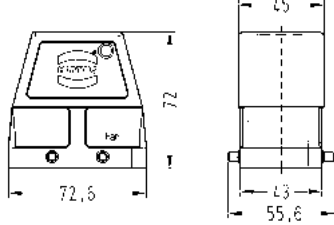


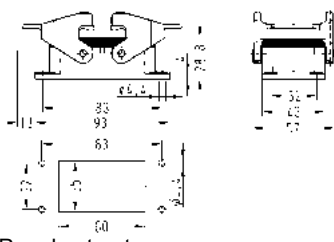
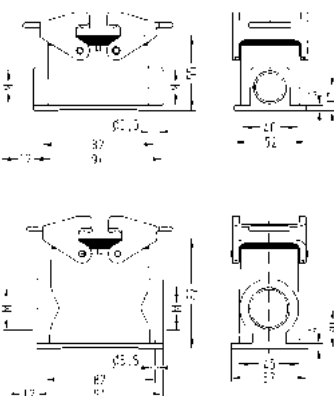
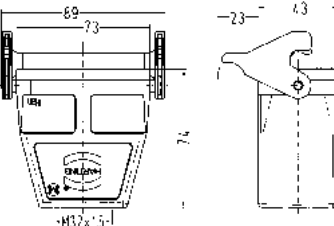
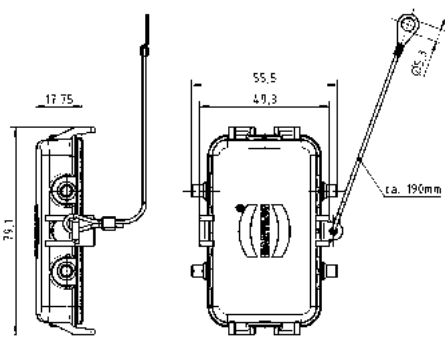
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B , Surface mounted housing, Side entry, Han-Easy Lock® 	2x M20	19 62 806 1290		
Han® EMC/B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 62 806 5425	09 62 806 5425	

Housings

Double locking lever

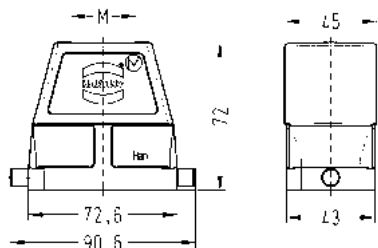
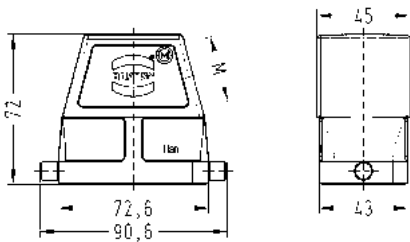
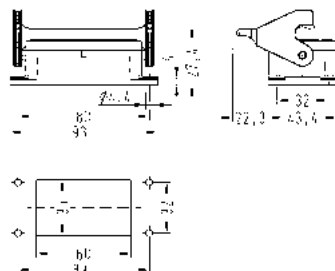
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B Han® High Temp , Hoods, Top entry 	1x M20 1x M25 1x M32	19 62 810 1420 19 62 810 1421	19 62 810 0426 19 62 810 0427	
Han® EMC/B Han® High Temp , Hoods, Side entry 	1x M20 1x M25 1x M32	19 62 810 1520	19 62 810 0526 19 62 810 0527	
Han® EMC/B Han® High Temp , Hoods, Without cable entry 			09 62 810 0801	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B , Bulkhead mounted housings, Han-Easy Lock® 		09 62 810 0301		 Panel cut out
Han® EMC/B , Surface mounted housing, Side entry, Han-Easy Lock® 	2x M25 2x M32	19 62 810 1271	19 62 810 0272	
Han® EMC/B , Cable to cable housing, Top entry, Han-Easy Lock® 	1x M25 1x M32		19 62 810 0766 19 62 810 0757	
Han® EMC/B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 62 810 5425	09 62 810 5425	

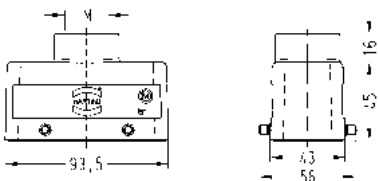
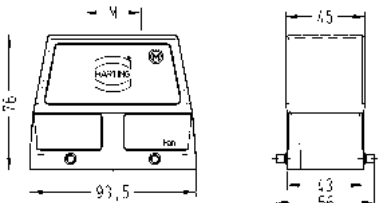
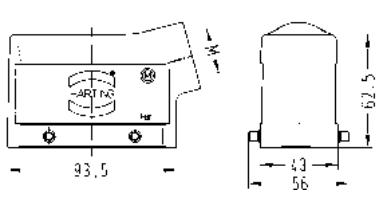
Hoods/Housings for higher EMC requirements
Single locking lever

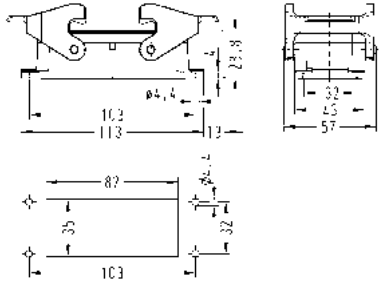
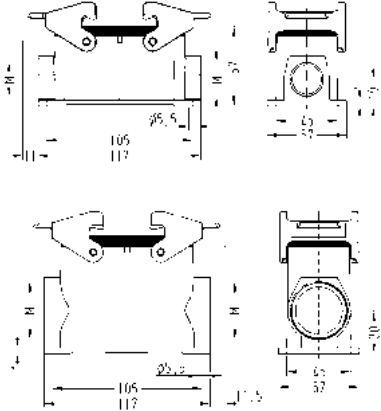
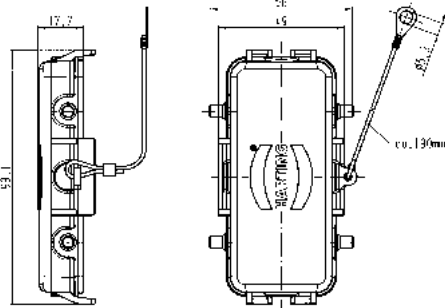
Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B , Hoods, Top entry 	1x M25 1x M32		19 62 810 0446 19 62 810 0447	
Han® EMC/B , Hoods, Side entry 	1x M25 1x M32		19 62 810 0546 19 62 810 0547	
Han® EMC/B , Bulkhead mounted housings, Han-Easy Lock® 		09 62 810 0305		 Panel cut out

Double locking lever

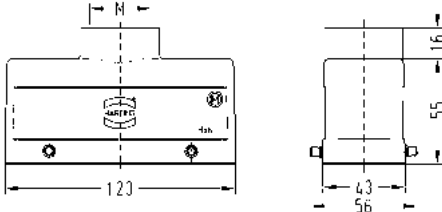
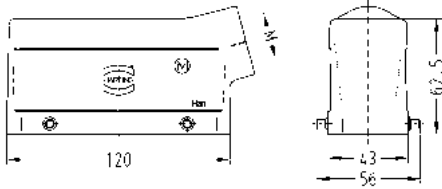
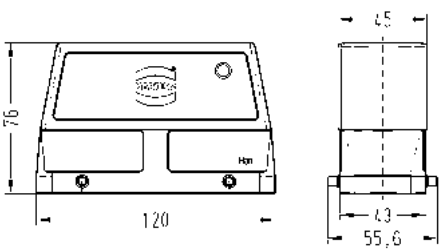
Housings

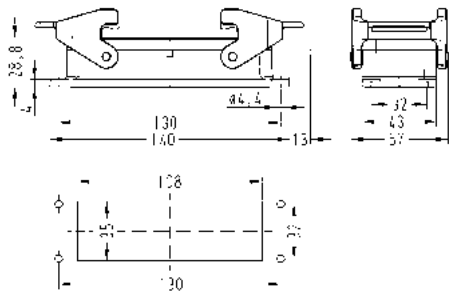
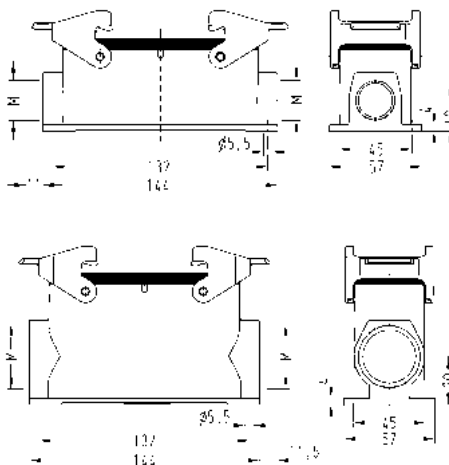
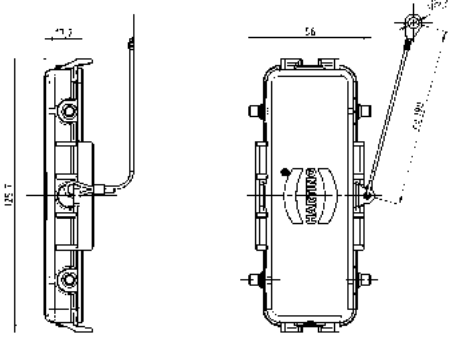
Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B Han® High Temp , Hoods, Top entry 	1x M25 1x M32 1x M40	19 62 816 1421	19 62 816 0427 19 62 816 0428	
Han® EMC/B Han® High Temp , Hoods, Side entry 	1x M25 1x M32 1x M40	19 62 816 1521	19 62 816 0527 19 62 816 0528	
Han® EMC/B Han® High Temp , Hoods, Without cable entry 			09 62 816 0801	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B , Bulkhead mounted housings, Han-Easy Lock® 		09 62 816 0301		 Panel cut out
Han® EMC/B , Surface mounted housing, Side entry, Han-Easy Lock® 	2x M25 2x M40	19 62 816 1271	19 62 816 0273	
Han® EMC/B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 62 816 5425	09 62 816 5425	

Double locking lever

Housings

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B Han® High Temp , Hoods, Top entry 	1x M32	19 62 824 1422	19 62 824 0427	
Han® EMC/B Han® High Temp , Hoods, Side entry 	1x M25 1x M32 1x M40	19 62 824 1521	19 62 824 0527 19 62 824 0528	
Han® EMC/B Han® High Temp , Hoods, Without cable entry 			09 62 824 0801	

Identification	Cable entry	Part number		Drawing (dimensions in mm)
		Low construction	High construction	
Han® EMC/B , Bulkhead mounted housings, Han-Easy Lock® 		09 62 824 0301		 Panel cut out
Han® EMC/B , Surface mounted housing, Side entry, Han-Easy Lock® 	2x M25 2x M40	19 62 824 1271	19 62 824 0273	
Han® EMC/B , Protection cover, for bulkhead mounted housings, for surface mounted housings, Metal, With fixing cord 		09 62 824 5425	09 62 824 5425	

Features

- Hoods/housings for harsh outdoor environments
- Metal hoods and housings with excellent corrosion resistance
- Corrosion resistance ASTM B117-09 (500 h)
- Excellent EMC characteristics
- Screw locking M4
- Field of application: for external electrical interconnections in vehicles, in highly demanding environments and wet areas, as well as for sensitive interconnections that have to be shielded
- Distinguishing feature: colour-coded black, internal seal

Technical characteristics

Limiting temperature	-40 ... +125 °C
Tightening torque (screw locking)	2 Nm
Degree of protection acc. to IEC 60529	IP65, IP68, IP69 / IPX9K acc. to ISO 20653
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated, Chromated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR, FPM
Material (locking)	Stainless steel
RoHS	compliant

Specifications and approvals

UL 1977 ECBT2.E235076
CSA-C22.2 No. 182.3 ECBT8.E235076
DNV GL

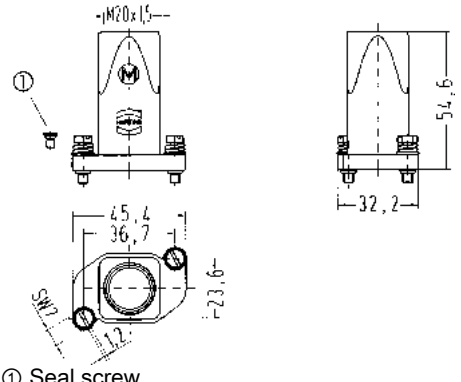
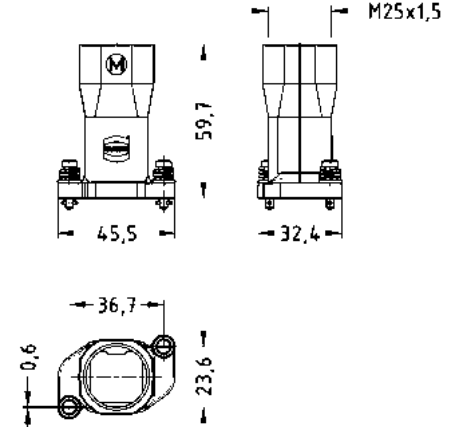
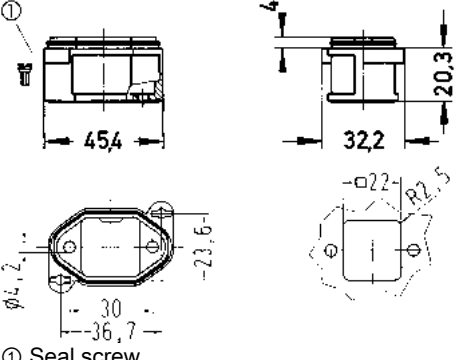
Details

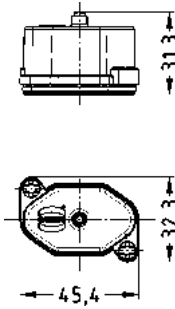
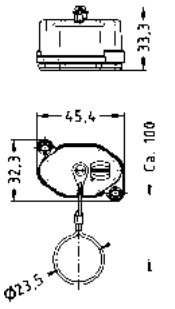
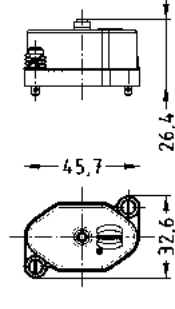
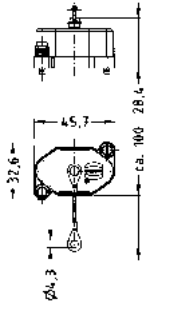
By using the inserts of Han® Q and Han A® series, the sealing on the insert has to be removed. The sealing screw of the insert must be replaced by the sealing screw of the hood/housing.

By using the angled bulkhead and surface mounted housings with through holes in the mounting flanges, it has to be ensured by the customer that the fixing screws appropriately sealed from the inside of the housing.

Hoods/housings for harsh outdoor environments
Toggle locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry, Pack contents: With seal screw 	1x M20 1x M25	19 40 703 0400 19 40 703 0401	 ① Seal screw 
Han® HPR , Bulkhead mounted housings, Straight, Pack contents: With seal screw 		09 40 703 0301	 ① Seal screw

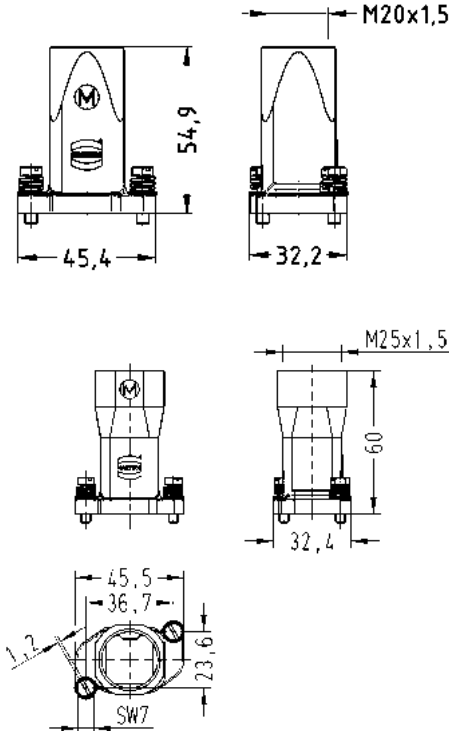
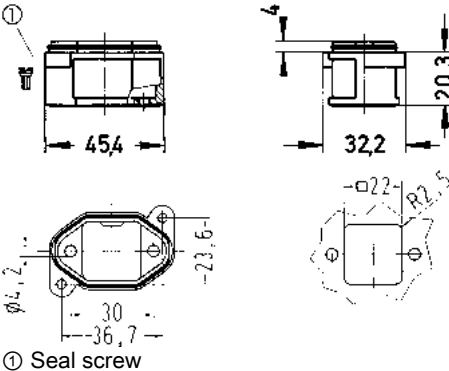
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Protection cover, for hoods 		09 40 703 5403	
Han® HPR , Protection cover, for hoods, With fixing cord 		09 40 703 5404	
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings 		09 40 703 5401	
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings, With fixing cord 		09 40 703 5402	

Housings



Hoods/housings for harsh outdoor environments
Screw locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry, Pack contents: With seal screw 	1x M20 1x M25	19 40 703 0410 19 40 703 0411	
Han® HPR , Bulkhead mounted housings, Straight, Pack contents: With seal screw 		09 40 703 0311	

31
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132

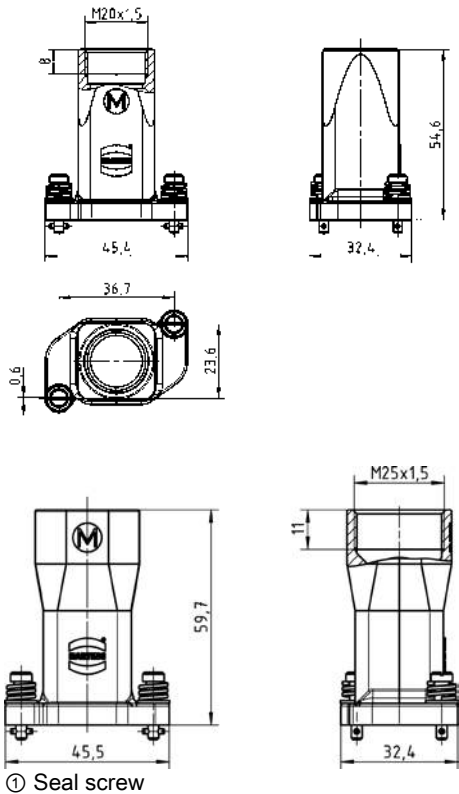
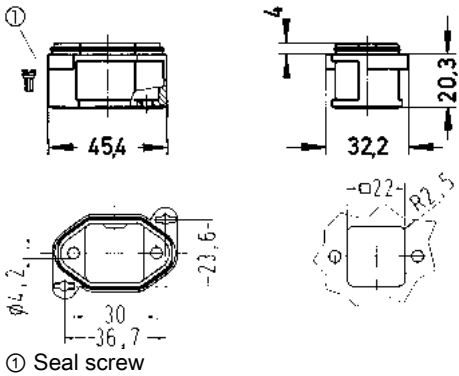
Housings

Housings



Hoods/housings for harsh outdoor environments
Toggle locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry, Pack contents: With seal screw 	1x M20 1x M25	19 40 003 0400 19 40 003 0401	 ① Seal screw
Han® HPR , Bulkhead mounted housings, Straight, Pack contents: With seal screw 		09 40 003 0301	 ① Seal screw

Housings

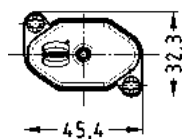
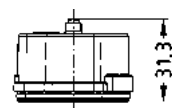
Identification

Cable entry

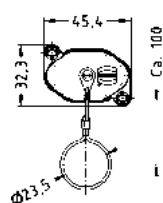
Part number

Drawing
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Protection cover,
for hoods

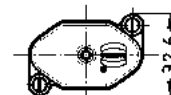
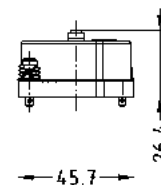
09 40 003 5403

Han® HPR ,
Protection cover,
for hoods,
With fixing cord

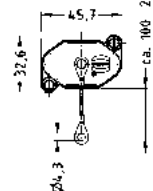
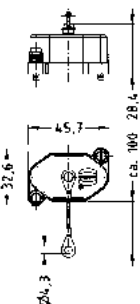
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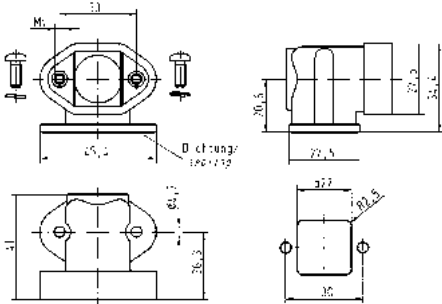
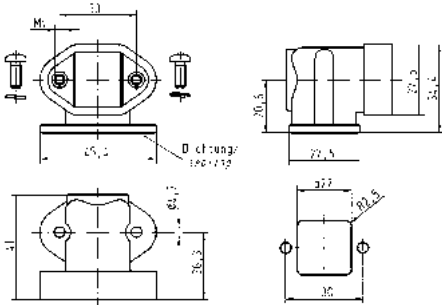
Han® HPR ,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings

09 40 003 5401

Han® HPR ,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
With fixing cord

09 40 003 5402

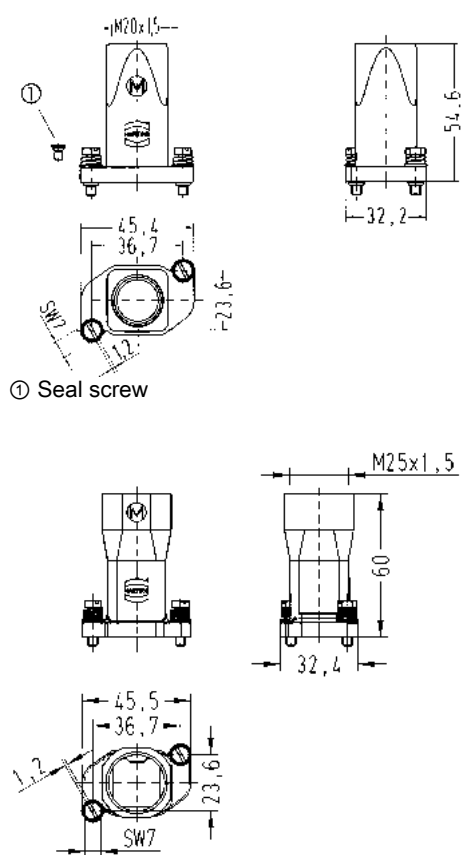
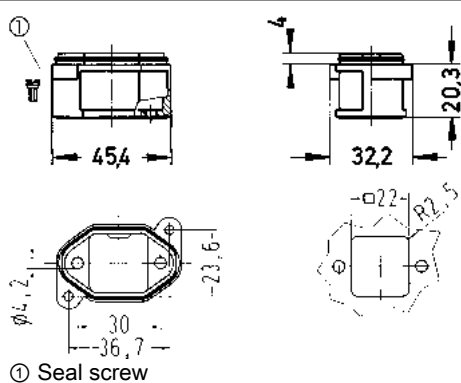


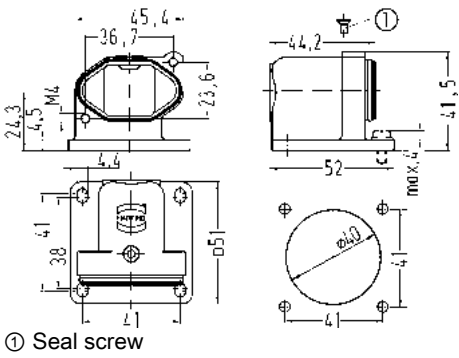
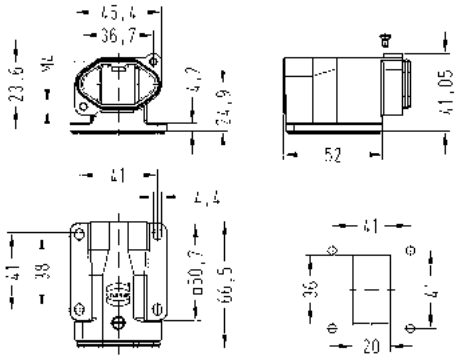
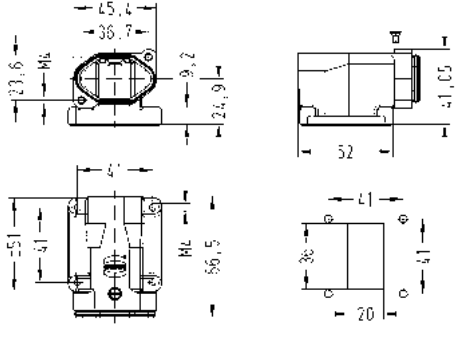
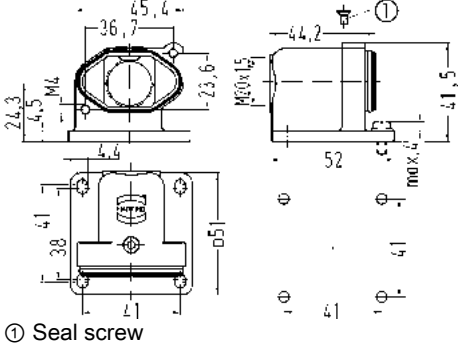
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Adapter, Open bottom, for assembly of bulkhead mounted bulk- head mounted position, Top entry 	1x M20	19 40 003 0900	
Han® HPR , Adapter, Open bottom, for assembly of bulkhead mounted bulk- head mounted position 		09 40 003 0902	

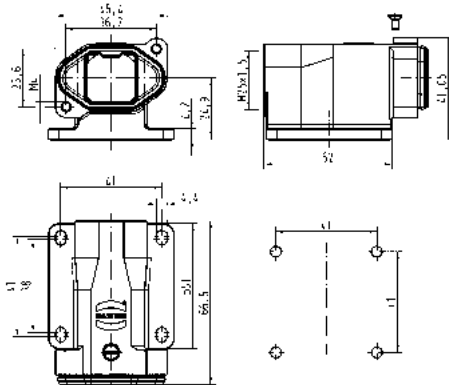
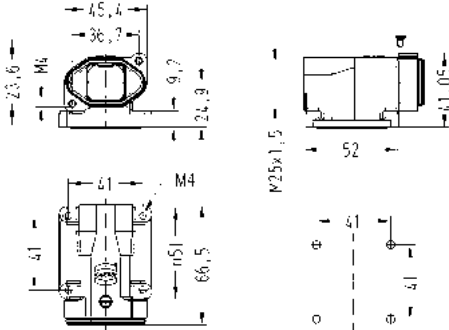
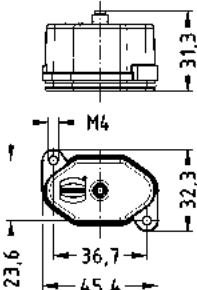
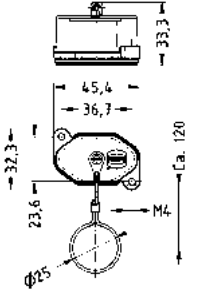
Housings

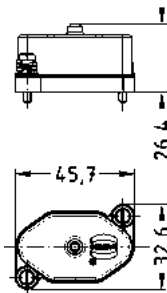
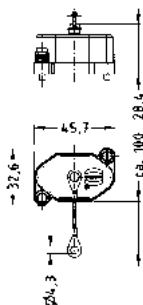
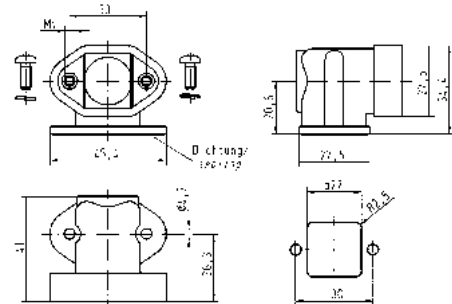
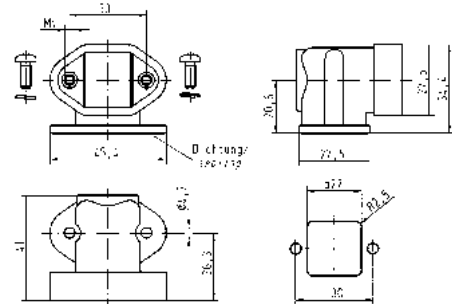
Hoods/housings for harsh outdoor environments
Screw locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry, Pack contents: With seal screw 	1x M20 1x M25	19 40 003 0410 19 40 003 0411	 ① Seal screw
Han® HPR , Bulkhead mounted housings, Straight, Pack contents: With seal screw 		09 40 003 0311	 ① Seal screw

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Bulkhead mounted housings, Angled, Open bottom, Feed through hole for fixing screws, Pack contents: With seal screw 		09 40 003 0950	 ① Seal screw
Han® HPR , Bulkhead mounted housings, Angled, Long version, Open bottom, Feed through hole for fixing screws, Pack contents: With seal screw 		09 40 003 0951	 ① Seal screw
Han® HPR , Bulkhead mounted housings, Angled, Long version, Open bottom, Tapped blind hole for fixing screws, Pack contents: With seal screw 		09 40 003 0953	 ① Seal screw
Han® HPR , Surface mounted housing, Bottom closed, Feed through hole for fixing screws, Top entry, Pack contents: With seal screw 	1x M20	19 40 003 0950	 ① Seal screw

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Surface mounted housing, Long version, Bottom closed, Feed through hole for fixing screws, Top entry, Pack contents: With seal screw 	1x M25	19 40 003 0951	
Han® HPR , Surface mounted housing, Long version, Bottom closed, Tapped blind hole for fixing screws, Top entry, Pack contents: With seal screw 	1x M25	19 40 003 0953	
Han® HPR , Protection cover, for hoods 		09 40 003 5413	
Han® HPR , Protection cover, for hoods, With fixing cord 		09 40 003 5414	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings 		09 40 003 5411	
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings, With fixing cord 		09 40 003 5412	
Han® HPR , Adapter, Open bottom, for assembly of bulkhead mounted bulk- head mounted position, Top entry 	1x M20	19 40 003 0900	
Han® HPR , Adapter, Open bottom, for assembly of bulkhead mounted bulk- head mounted position 		09 40 003 0902	

Features

- Hoods/housings for harsh outdoor environments
- Metal hoods and housings with excellent corrosion resistance
- Corrosion resistance ASTM B117-09 (500 h)
- Excellent EMC characteristics
- Screw locking M6
- Field of application: for external electrical interconnections in vehicles, in highly demanding environments and wet areas, as well as for sensitive interconnections that have to be shielded
- Distinguishing feature: colour-coded black, internal seal

Technical characteristics

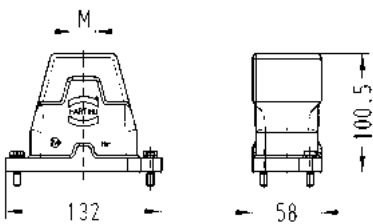
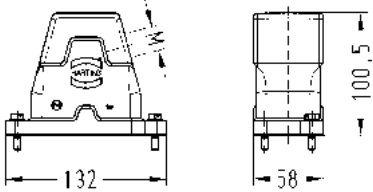
Limiting temperature	-40 ... +125 °C
Tightening torque (screw locking)	4 Nm
Degree of protection acc. to IEC 60529	IP65, IP68, IP69 / IPX9K acc. to ISO 20653
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Aluminium die-cast, Corrosion resistant
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Stainless steel
RoHS	compliant, compliant with exemption
RoHS exemptions	6c: Copper alloy containing up to 4 % lead by weight

Specifications and approvals

UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Hoods/housings for harsh outdoor environments
Toggle locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M25	19 40 006 0401	
Han® HPR , Hoods, Side entry 	1x M25	19 40 006 0501	
Han® HPR , Bulkhead mounted housings 		09 40 006 0301	



Housings

Identification

Cable entry

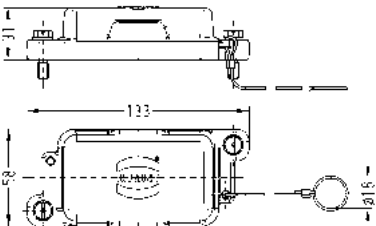
Part number

Drawing
(dimensions in mm)

Han® HPR ,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings

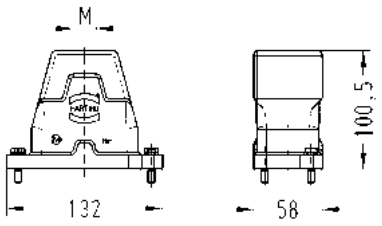
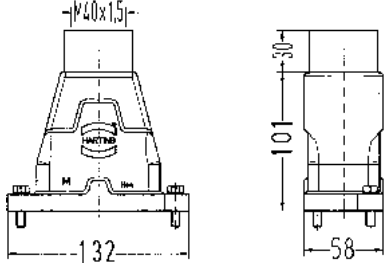
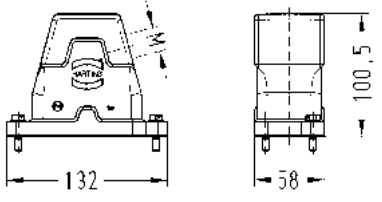
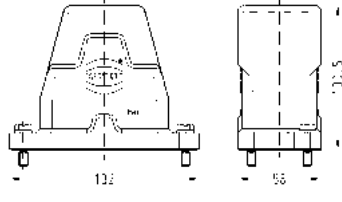
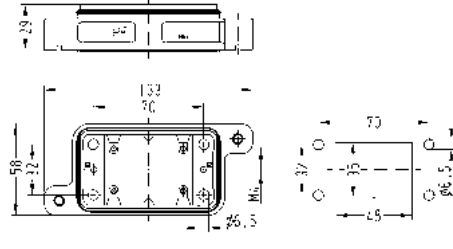


09 40 006 5401

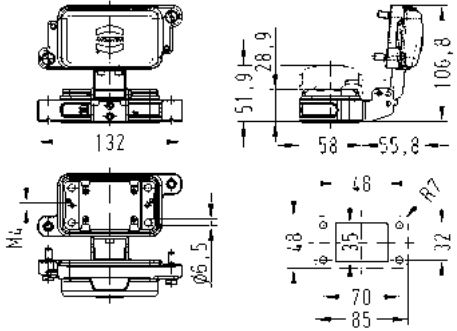
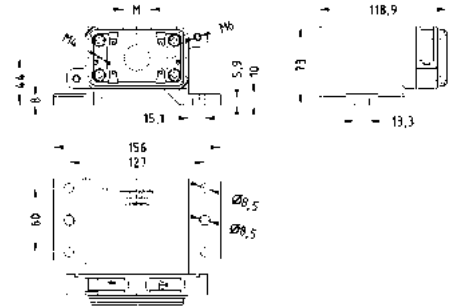
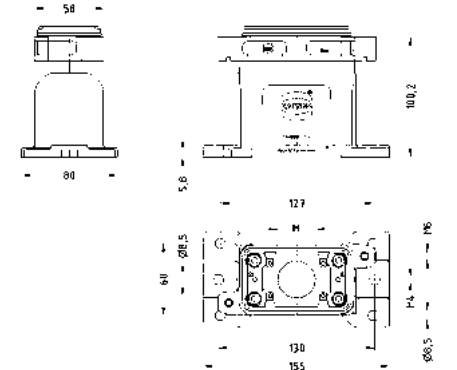
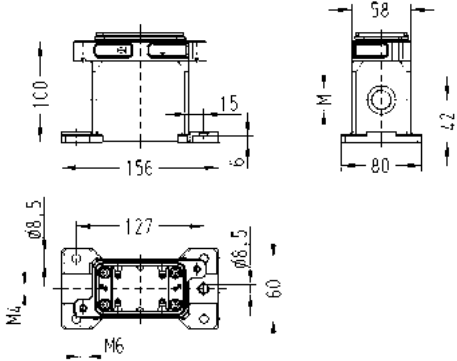


Hoods/housings for harsh outdoor environments
Screw locking

Housings

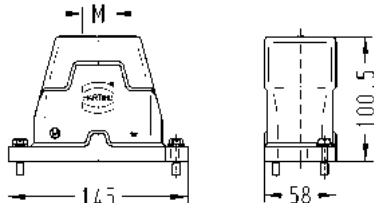
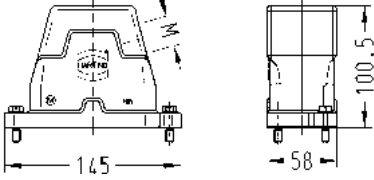
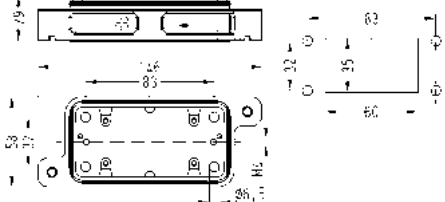
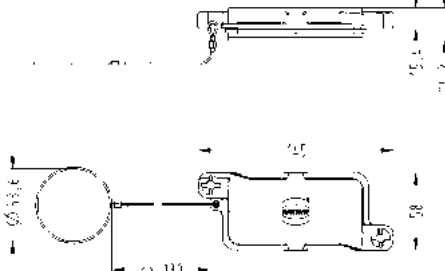
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M20 1x M25 1x M32 1x M40	19 40 006 0410 19 40 006 0411 19 40 006 0412 19 40 006 0413	
Han® HPR , Hoods, With adapter, Top entry 	1x M40	19 40 006 0418	
Han® HPR , Hoods, Side entry 	1x M20 1x M25 1x M32 1x M40	19 40 006 0510 19 40 006 0511 19 40 006 0512 19 40 006 0513	
Han® HPR , Hoods, Without cable entry 		09 40 006 0811	
Han® HPR , Bulkhead mounted housings 		09 40 006 0311	

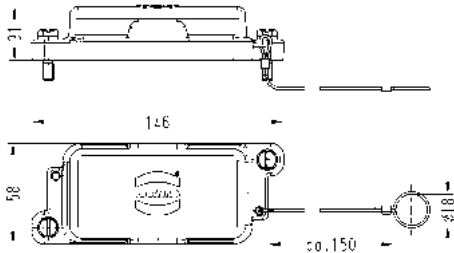
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Bulkhead mounted housings, With metal cover 		09 40 006 0317	
Han® HPR , Surface mounted housing, Horizontal version, Top entry 	1x M25 1x M40	19 40 006 0911 19 40 006 0913	
Han® HPR , Surface mounted housing, Top entry 	1x M32 1x M40	19 40 006 1212 19 40 006 1213	
Han® HPR , Surface mounted housing, Side entry	1x M20 1x M25 1x M32	19 40 006 1260 19 40 006 1261 19 40 006 1262	

Hoods/housings for harsh outdoor environments
Toggle locking

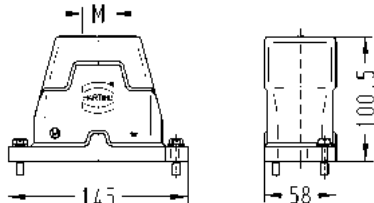
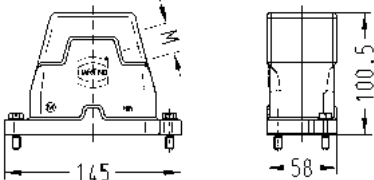
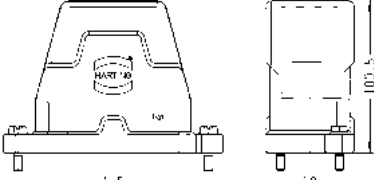
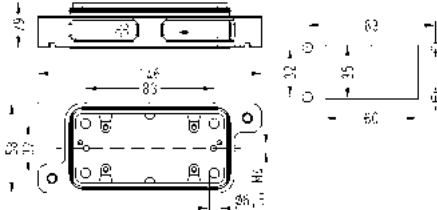
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M25	19 40 010 0401	
Han® HPR , Hoods, Side entry 	1x M25	19 40 010 0501	
Han® HPR , Bulkhead mounted housings 		09 40 010 0301	
Han® HPR , Protection cover, for hoods 		09 40 010 5404	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings 		09 40 010 5401	

Hoods/housings for harsh outdoor environments
Screw locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M25 1x M32 1x M40 2x M20	19 40 010 0411 19 40 010 0412 19 40 010 0413 19 40 010 0430	
Han® HPR , Hoods, Side entry 	1x M25 1x M32 1x M40	19 40 010 0511 19 40 010 0512 19 40 010 0513	
Han® HPR , Hoods, Without cable entry 		09 40 010 0811	
Han® HPR , Bulkhead mounted housings 		09 40 010 0311	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Bulkhead mounted housings, With metal cover		09 40 010 0317	Technical drawing showing dimensions for the bulkhead mounted housing with metal cover (Part number 09 40 010 0317). The drawing includes four views: front, side, top, and bottom. Key dimensions include overall width of 145mm, height of 58mm, and mounting hole diameter of Ø6.5mm.
Han® HPR , Surface mounted housing, Side entry	1x M20 1x M32 1x M40 2x M25 2x M32	19 40 010 1260 19 40 010 1262 19 40 010 1263 19 40 010 1271 19 40 010 1272	Technical drawing showing dimensions for the surface mounted housing with side entry (Part numbers 19 40 010 1260-1272). The drawing includes three views: front, side, and top. Key dimensions include overall width of 169mm, height of 100mm, and mounting hole diameter of Ø8.5mm.
Han® HPR , Panel feed through housing, for mounting from inside, Top entry	1x M40	19 40 010 1113	Technical drawing showing dimensions for the panel feed through housing for mounting from inside with top entry (Part number 19 40 010 1113). The drawing includes two views: front and side. Key dimensions include overall width of 175mm, height of 153mm, and mounting hole diameter of Ø6.5mm.
Han® HPR , Panel feed through housing, for mounting from outside, Top entry	1x M40	19 40 010 1118	Technical drawing showing dimensions for the panel feed through housing for mounting from outside with top entry (Part number 19 40 010 1118). The drawing includes two views: front and side. Key dimensions include overall width of 175mm, height of 153mm, and mounting hole diameter of Ø6.5mm.

The fixing screws must be sealed separately to reach the given degree of protection.



Housings

Identification

Cable entry

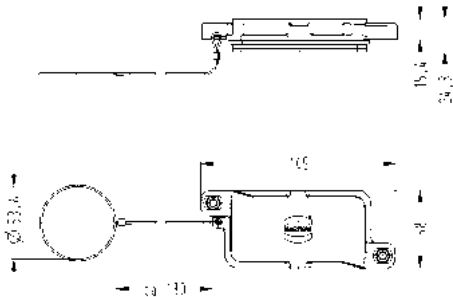
Part number

Drawing
(dimensions in mm)

Han® HPR ,
Protection cover,
for hoods



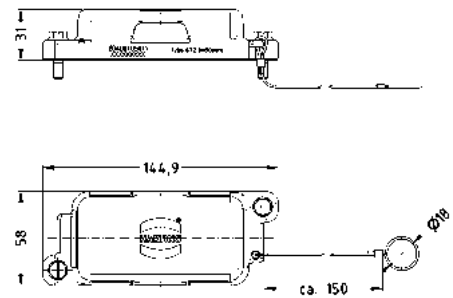
09 40 010 5414



Han® HPR ,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings

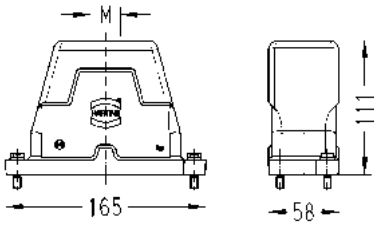
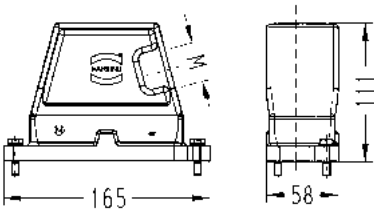
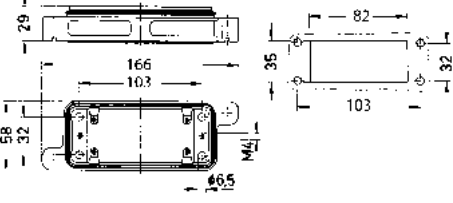
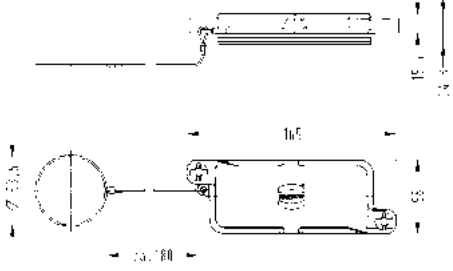


09 40 010 5411



Hoods/housings for harsh outdoor environments
Toggle locking

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M32	19 40 016 0402	
Han® HPR , Hoods, Side entry 	1x M32	19 40 016 0502	
Han® HPR , Bulkhead mounted housings 		09 40 016 0301	
Han® HPR , Protection cover, for hoods 		09 40 016 5404	



Housings

Identification

Cable entry

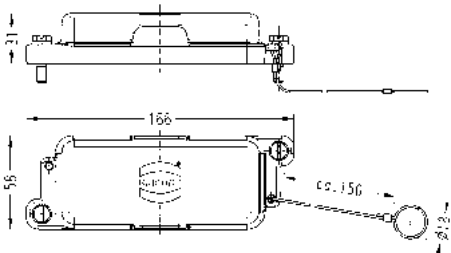
Part number

Drawing
(dimensions in mm)

Han® HPR ,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings

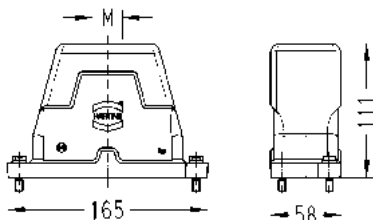
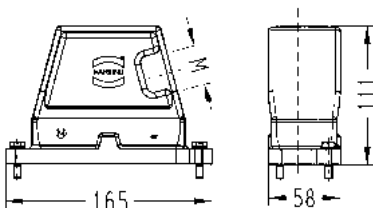
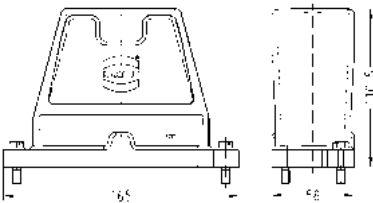
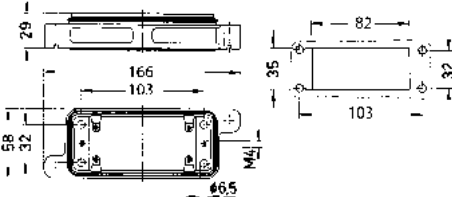
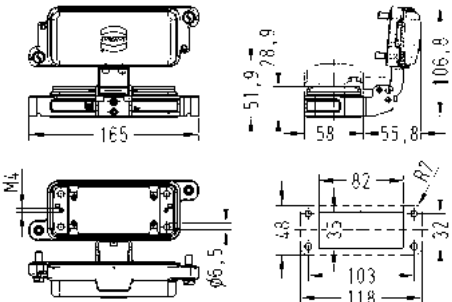


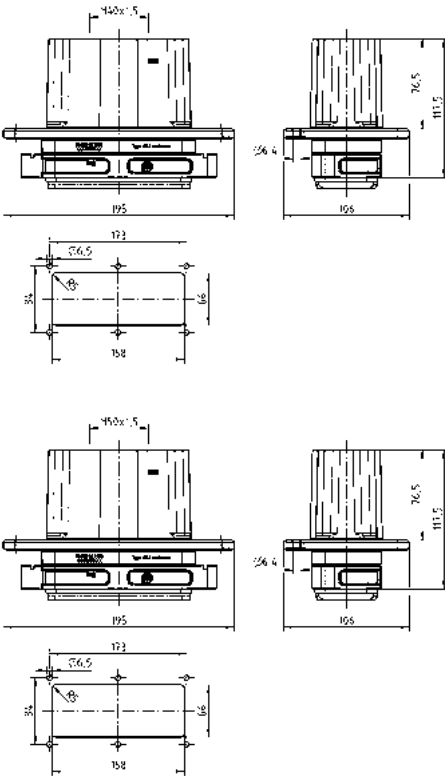
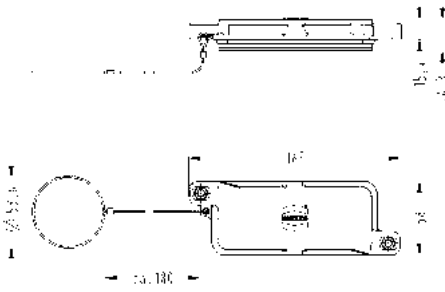
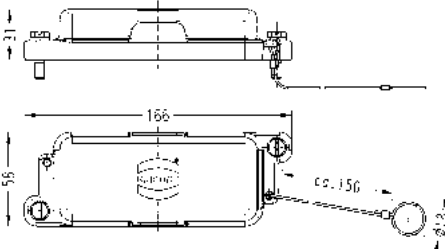
09 40 016 5401



Hoods/housings for harsh outdoor environments
Screw locking

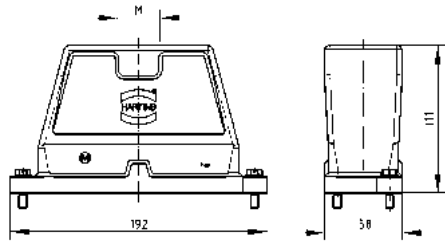
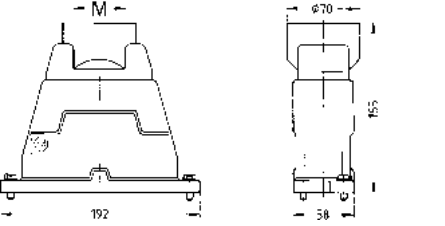
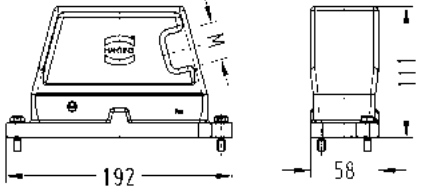
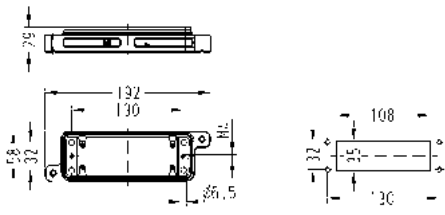
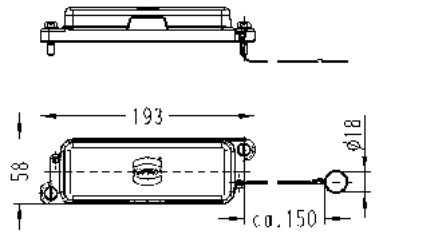
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M25 1x M32 1x M40 1x M50 2x M25	19 40 016 0411 19 40 016 0412 19 40 016 0413 19 40 016 0414 19 40 016 0431	
Han® HPR , Hoods, Side entry 	1x M20 1x M25 1x M32 1x M40 1x M50	19 40 016 0510 19 40 016 0511 19 40 016 0512 19 40 016 0513 19 40 016 0514	
Han® HPR , Hoods, Without cable entry 		09 40 016 0811	
Han® HPR , Bulkhead mounted housings 		09 40 016 0311	
Han® HPR , Bulkhead mounted housings, With metal cover 		09 40 016 0317	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Panel feed through housing, for mounting from outside, Top entry  The fixing screws must be sealed separately to reach the given degree of protection.	1x M40 1x M50 2x M25	19 40 016 1118 19 40 016 1119 19 40 016 1134	
Han® HPR , Protection cover, for hoods 		09 40 016 5414	
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings 		09 40 016 5411	

Hoods/housings for harsh outdoor environments
Toggle locking

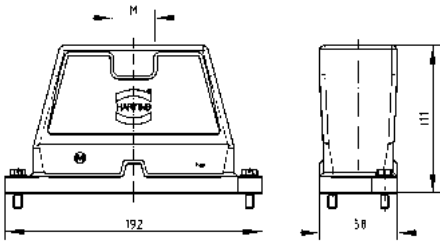
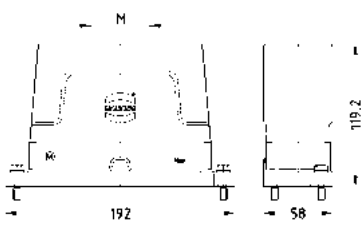
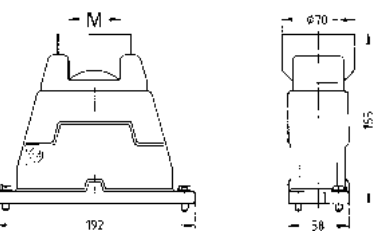
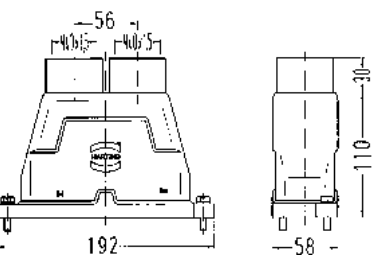
Housings

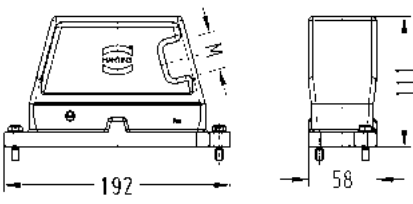
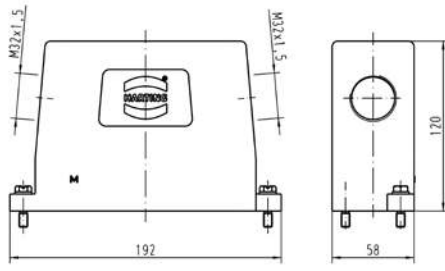
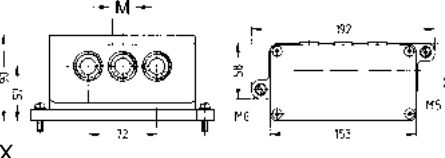
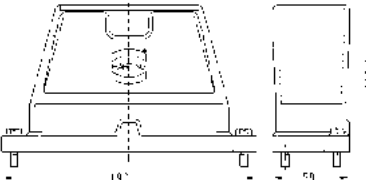
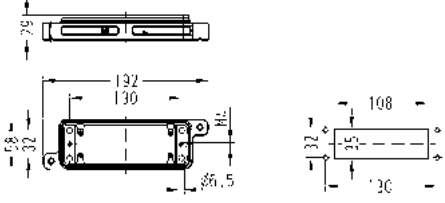
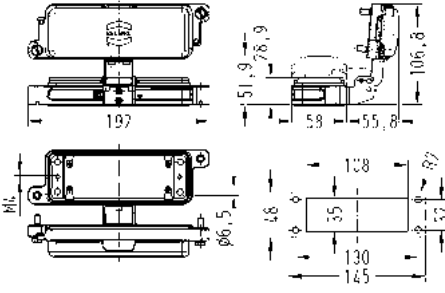
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M32 1x M63	19 40 024 0402 19 40 024 0410	 
Han® HPR , Hoods, Side entry 	1x M40	19 40 024 0503	
Han® HPR , Bulkhead mounted housings 		09 40 024 0301	
Han® HPR , Protection cover, for hoods 		09 40 024 5404	

Housings

Hoods/housings for harsh outdoor environments
Screw locking

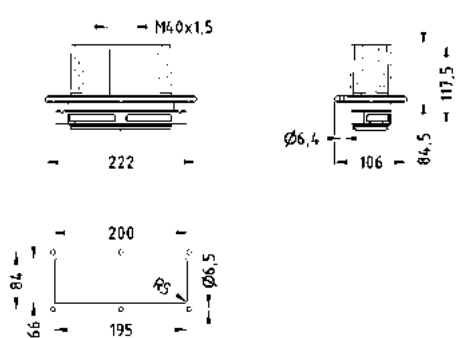
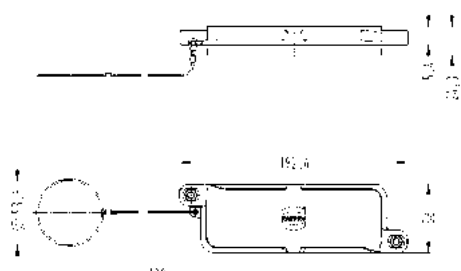
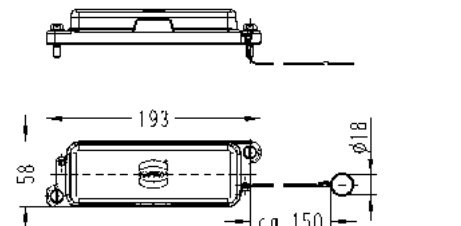
Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Top entry 	1x M32 1x M40 1x M50 2x M25 2x M32 2x M40 3x M25 3x M25, 1x M20 4x M20 4x M25	19 40 024 0412 19 40 024 0413 19 40 024 0414 19 40 024 0431 19 40 024 0432 19 40 024 0433 19 40 024 0461 19 40 024 0471 19 40 024 0473 19 40 024 0474	
Han® HPR , Hoods, Top entry, High construction 	1x M50 3x M32 4x M25	19 40 024 0419 19 40 024 0467 19 40 024 0477	
Han® HPR , Hoods, Special type, Top entry 	1x M63	19 40 024 0420	
Han® HPR , Hoods, With adapter, Top entry 	2x M40	19 40 024 0438	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Hoods, Side entry	1x M32 1x M40 1x M50	19 40 024 0512 19 40 024 0513 19 40 024 0514	
Han® HPR , Hoods, Side entry, High construction	2x M32	19 40 024 0537	
Han® HPR , Hoods, Special type, Angled entry	3x M25	19 40 024 0631	
Han® HPR , Hoods, Without cable entry		09 40 024 0811	
Han® HPR , Bulkhead mounted housings		09 40 024 0311	
Han® HPR , Bulkhead mounted housings, With metal cover		09 40 024 0317	

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Surface mounted housing, Horizontal version, Top entry	1x M50 2x M32 3x M25 3x M25, 1x M20 4x M25	19 40 024 0914 19 40 024 0925 19 40 024 0931 19 40 024 0971 19 40 024 0941	
Han® HPR , Surface mounted housing, Top entry	3x M25 3x M25, 1x M20 4x M25	19 40 024 1231 19 40 024 1271 19 40 024 1242	
Han® HPR , Surface mounted housing, Side entry	1x M40 2x M40 2x M50	19 40 024 1263 19 40 024 1273 19 40 024 1274	
Han® HPR , Panel feed through housing, for mounting from inside, Top entry	1x M40 1x M50	19 40 024 1113 19 40 024 1114	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han® HPR , Panel feed through housing, for mounting from outside, Top entry  The fixing screws must be sealed separately to reach the given degree of protection.	1x M40 1x M50 2x M32	19 40 024 1118 19 40 024 1119 19 40 024 1135	
Han® HPR , Protection cover, for hoods 		09 40 024 5414	
Han® HPR , Protection cover, for bulkhead mounted housings, for surface mounted housings 		09 40 024 5411	

Features

- Hoods/housings for harsh environments
- Extremely resistant to chemicals and other aggressive influences
- Made completely from high-quality stainless steel
- Extremely resistant to corrosion

Technical characteristics

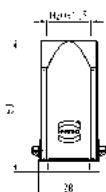
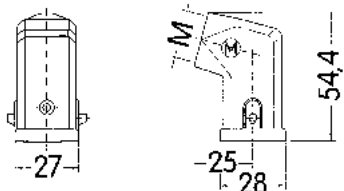
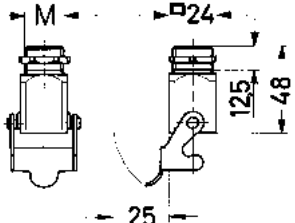
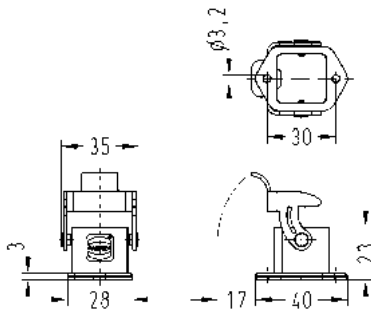
Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP67, IP65
Type rating acc. to UL 50 / UL 50E	4, 4X, 12
Material (hood/housing)	Stainless steel
Surface (hood/housing)	Uncoated
Colour (hood/housing)	Unpainted
Material (seal)	NBR
Material (locking)	Stainless steel
RoHS	compliant

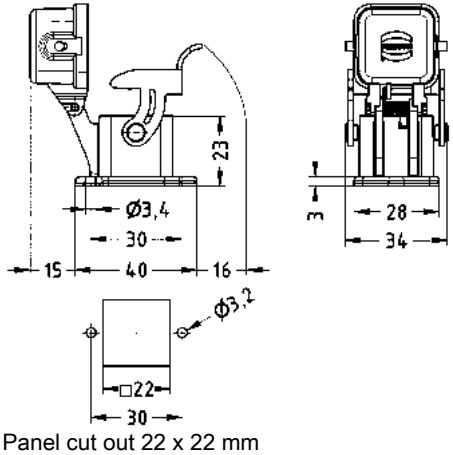
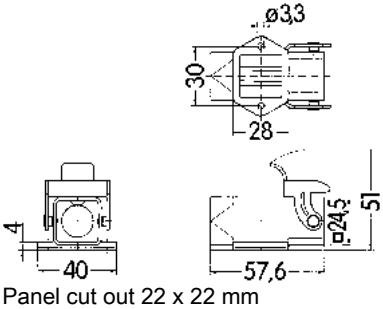
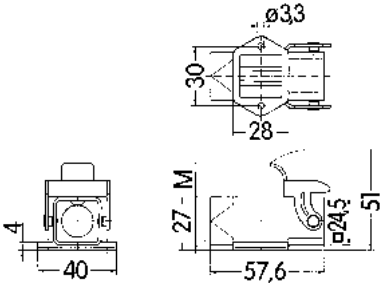
Specifications and approvals

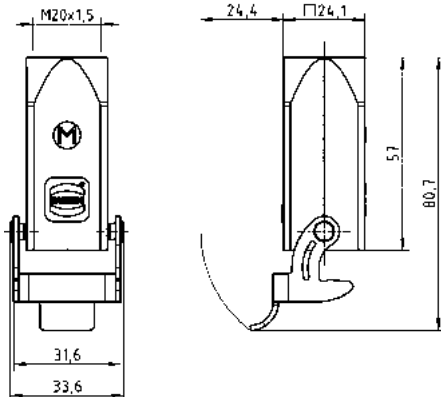
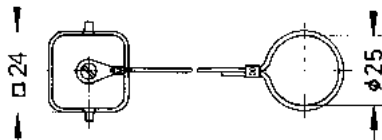
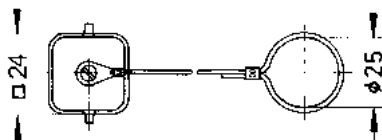
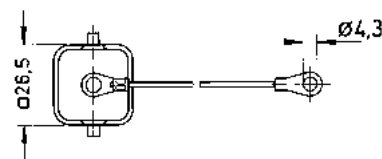
UL 1977 ECBT2.E235076
 CSA-C22.2 No. 182.3 ECBT8.E235076
 DNV GL

Hoods/housings for harsh environments
Single locking lever

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-INOX®, Hoods, Top entry	1x M20	19 44 003 1440	
Han-INOX®, Hoods, Side entry	1x M20	19 44 003 1640	
Han-INOX®, Screw mounted housings, Top entry, Pack contents: 1x M20 stainless steel screw nut	1x M20	19 44 003 1150	
Han-INOX®, Bulkhead mounted housings, Straight		19 44 003 0301	 Panel cut out 22 x 22 mm

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-INOX®, Bulkhead mounted housings, Straight, With metal cover  for mounted male insert		19 44 003 0305	 Panel cut out 22 x 22 mm
Han-INOX®, Bulkhead mounted housings, Straight, With metal cover, With seal  for mounted female insert or for mounted Han-Brid® insert		19 44 003 0306	
Han-INOX®, Bulkhead mounted housings, Angled 		19 44 003 0801	 Panel cut out 22 x 22 mm
Han-INOX®, Surface mounted housing, Side entry 	1x M20	19 44 003 1250	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-INOX®, Cable to cable housing, Top entry 	1x M20	19 44 003 1750	
Han-INOX®, Protection cover, for hoods, Metal, With fixing cord 		19 44 003 5421	
for mounted female insert or for mounted Han-Brid® insert Han-INOX®, Protection cover, for hoods, Metal, With fixing cord 		19 44 003 5422	
for mounted male insert Han-INOX®, Protection cover, for bulkhead mounted housings, for surface mounted housings, for cable to cable housing, Metal, With fixing cord 		19 44 003 5425	
for mounted female insert or for mounted Han-Brid® insert			

Housings

Identification

Cable entry

Part number

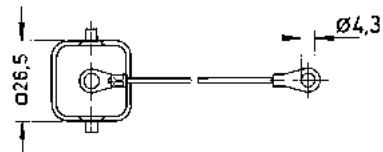
Drawing
(dimensions in mm)

Han-INOX®,
Protection cover,
for bulkhead mounted housings,
for surface mounted housings,
for cable to cable housing,
Metal,
With fixing cord



for mounted male insert

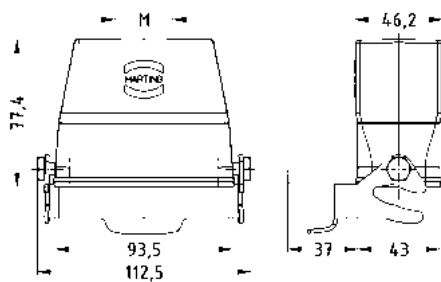
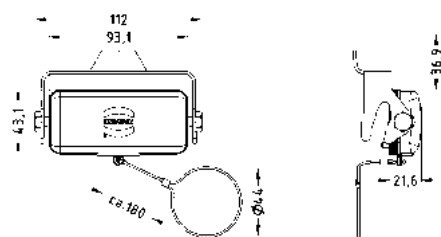
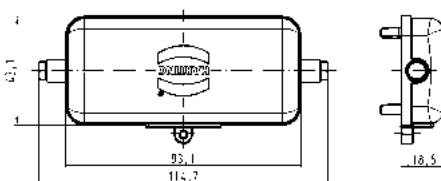
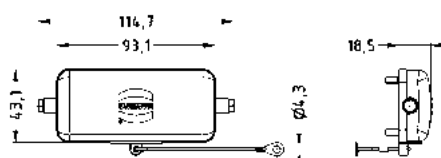
19 44 003 5426



Hoods/housings for harsh environments
Single locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-INOX®, Hoods, Top entry	1x M32	19 44 310 0447	
Han-INOX®, Hoods, Side entry	1x M20 1x M25 1x M32	19 44 310 0545 19 44 310 0546 19 44 310 0547	
Han-INOX®, Bulkhead mounted housings		19 44 310 0305	Panel cut out
Han-INOX®, Bulkhead mounted housings, With metal cover		19 44 310 0303	Panel cut out

Housings

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-INOX®, Cable to cable housing, Top entry 	1x M32	19 44 310 0757	
Han-INOX®, Protection cover, for hoods, Metal, With fixing cord 		19 44 310 5422	
Han-INOX®, Protection cover, for bulkhead mounted housings, for cable to cable housing, Metal 		19 44 310 5421	
Han-INOX®, Protection cover, for bulkhead mounted housings, for cable to cable housing, Metal, With fixing cord 		19 44 310 5423	

Technical characteristics

Material (seal) NBR
Colour (seal) Black

Technical characteristics

Material (cable glands) Metal
Material (clamping ring) Polyamide compliant
RoHS

Identification	Size	Clamping range (mm)	Size	Part number	Drawing (dimensions in mm)
Han-INOX®, Flange gasket			10 B	19 44 000 9902	
Han-INOX®, Cable gland	M20 M25 M32 M40	6 ... 13 9 ... 17 13 ... 21 16 ... 28		19 44 000 5082 19 44 000 5083 19 44 000 5084 19 44 000 5085	



Photo courtesy: MAN Diesel & Turbo SE



HARTING Han® Hoods/Housings
for control of marine Diesel engines.