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The modular HARTING RJ Industrial® connector family is based on the standard RJ45 pin profile and was developed especially for use in rugged industrial environments.

This technology charts a new course in the wiring of appliances with Ethernet interfaces, enabling the on-site configuration of connectors for many industrial applications, no matter if the product is a power connector or a communications connector. For the fast wiring of all Ethernet networks, HARTING relies consistently on the *HARAX*® IDC connection technology which has proved its worth in many industrial applications.

Solid or flexible conductors up to a cross-section of AWG 22 are terminated by IDC technology, without stripping or using any special tool.

For all Gigabit Ethernet networks HARTING offers the 8-pole data module with piercing connection technology and the new 8-pole data module with *HARAX*® quick termination technology. All data modules have the same dimensions.

The replacement of the data module enables the conversion of any 100 MBit Fast Ethernet network into a Gigabit Ethernet network using HARTING RJ Industrial® connectors. This innovative platform strategy also permits the use of the RJ45 data module in combination with the PushPull, Han-Max® and Han® 3 A connector families.

Based on this data module, HARTING has developed a comprehensive connector family which covers all applications for Fast Ethernet, 1/10 Gigabit Ethernet, PROFINET, Ethernet/IP and other Ethernet profiles in the industrial environment.

Degree of protection IP 20 is available for the standard RJ45 connectors, either for configuration in the field, or as molded system patch cable.

APPLIANCE INTEGRATION:

HARTING offers various RJ45 jacks for direct mounting on the PCBs of appliances.

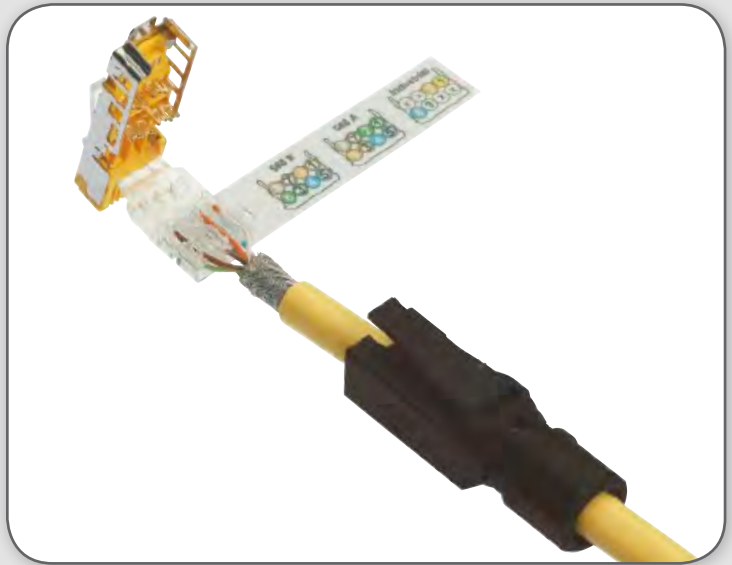


RJ45 QUICK CONNECTION WITH HARAX®:

The HARTING HARAX® quick connection technology is the ideal solution for dressing RJ45 connectors on-site. In order to produce a gas-proof and vibration resistant Ethernet connection, users only have to strip the cable insulation, insert the conductors, terminate the shielding plates and close the connector.

HARAX® is the most convenient handling standard connection for Ethernet where the emphasis is set on the assembly of connectors in the field.

HARAX® is an ideal IDC connection technology which is deployed universally in a very wide range of data, signal and power series.

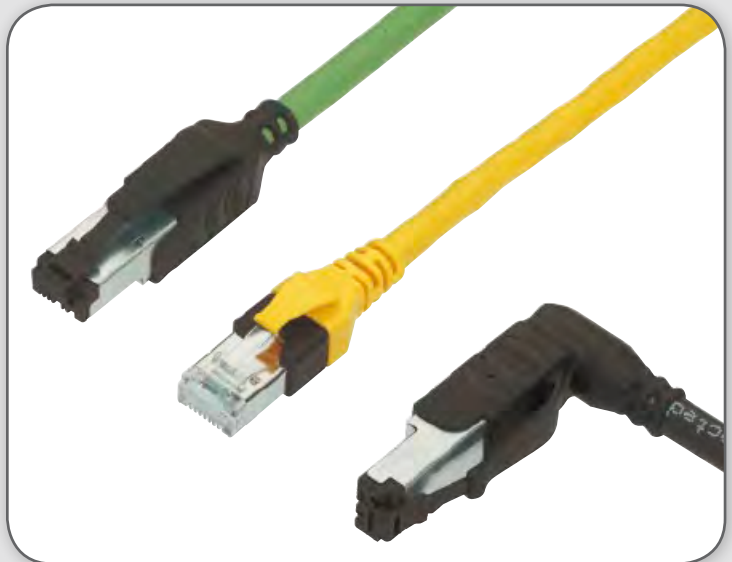


ASSEMBLED SYSTEM CABLES:

HARTING offers a comprehensive range of ready-to-use RJ45 system cables for the simple and easy connection of Ethernet devices. HARTING also provides assembled and tested system cables for special Ethernet profiles such as PROFINET and Ethernet/IP.

The range of solution comprises star quad, double-pair and four-pair cables of diverse structure, as required in drag chain applications, for example.

Consequently, HARTING system cables can be deployed in all Ethernet applications and all ambient conditions.



PERFORMANCE FOR THE FUTURE:

The HARTING RJ Industrial® portfolio offers a wide range of solutions for Industrial Ethernet, independent of wiring strategies to ISO/IEC 11801 currently deployed to wire appliances.

HARTING RJ Industrial® provides field connection technology based on 2-pair category 5 variant and on 4-pair category 6 variant.

HARTING RJ Industrial® is ideal for the future-proof planning of appliance interfaces, regardless of whether your future applications will involve Fast or Gigabit Ethernet, or 10 Gigabit Ethernet.





HARTING RJ Industrial® RJ45 jacks for direct device integration

Advantages

- Compact design
- Category of transmission Cat. 5
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)
- Temperature range -40 °C ... +70 °C

Technical characteristics

Locking	RJ45 acc. to IEC 60 603-7
Number of contacts	8
Degree of protection	IP 20
Rated voltage	125 V AC
Rated current	1.5 A
Mating face	RJ45 acc. to IEC 60 603-7
Mating cycles	min. 750
	UL approval

Identification

Part No.

Drawing

Dimensions in mm

Components device side

RJ45 jack (low profile)

Solder variant SMD,
90° angled

09 45 551 1100¹⁾
09 45 551 1110²⁾

Solder variant THT,
90° angled
with EMC contacts

09 45 551 1101¹⁾

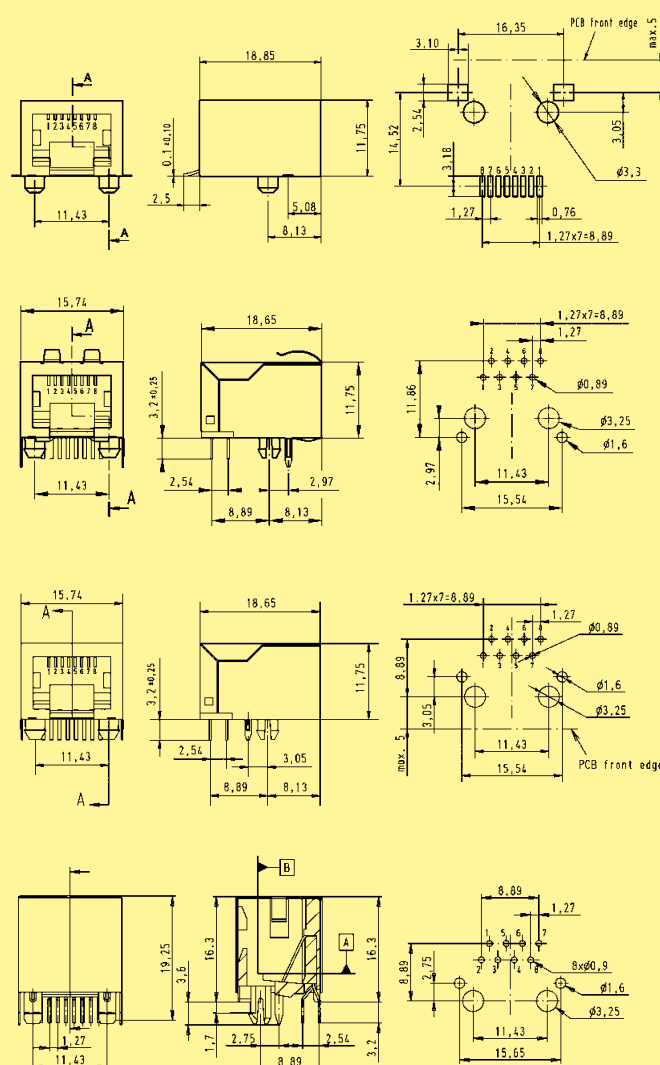
Solder variant THT,
90° angled

09 45 551 1102¹⁾

Solder variant THT,
vertical

09 45 551 1103³⁾

PCB layout, component side



¹⁾ Packaging: Blister à 120 pieces

²⁾ Packaging: Tape & Reel à 130 pieces

³⁾ Packaging: Blister à 80 pieces



Advantages

- ## Technical characteristics

Dimensions in mm

09 45 551 1128

01
05



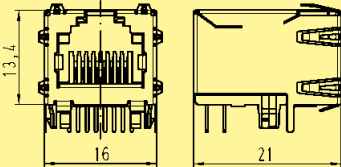
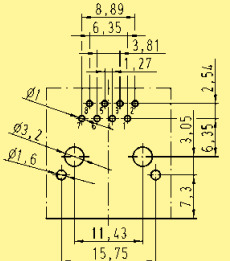
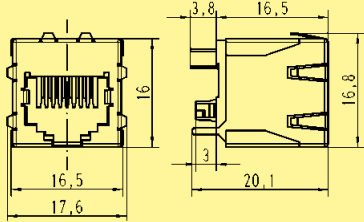
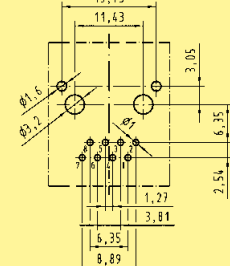
HARTING RJ Industrial® RJ45 jacks for direct device integration

Advantages

- Compact design
- Category of transmission Cat. 6
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)
- Temperature range -40 °C ... +70 °C

Technical characteristics

Locking	RJ45 acc. to IEC 60 603-7
Number of contacts	8
Degree of protection	IP 20
Rated voltage	125 V AC
Rated current	1.5 A
Mating face	RJ45 acc. to IEC 60 603-7
Mating cycles	min. 750
	UL approval

Identification	Part No.	Drawing	Dimensions in mm
Components device side			PCB layout, component side
RJ45 jack (Standard)			
Solder variant overmolded (THT), 90° angled	09 35 002 2101 ¹⁾		
Solder variant overmolded (THT), 180° straight	09 35 002 2102 ²⁾		

¹⁾ Packaging: Blister à 90 pieces
²⁾ Packaging: Blister à 100 pieces



HARTING RJ Industrial® RJ45 jacks with transformer

Advantages

- Compact design
- Integrated optical fibres
- Excellent EMC behaviour due to integrated transformers and filters for 10/100 Mbit or 1 Gbit Ethernet
- SMC compatible
- Versions from 10/100 Mbit up to 10 Gbit Ethernet and PoE
- Usable for IP 65 / IP 67 device integration with HARTING PushPull and Han® 3 A RJ45

Technical characteristics

Mating face	RJ45 acc. to IEC 60603-7
Number of contacts	8
Degree of protection	IP 20
Rated voltage	30 V DC
Rated current	8 mA DC
Mating cycles	min. 750
Temperature range	-25 °C ... +70 °C

Identification

Part No.

Drawing

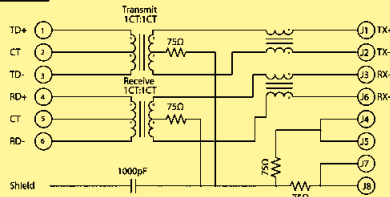
Dimensions in mm

Components device side

RJ45 jack with transformer (low profile)

90° angled, THT
10/100 Mbit Ethernet

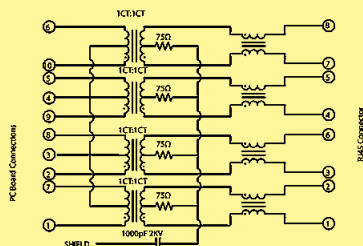
Schematic:



10/100 Mbit Ethernet and PoE

90° angled, THT
1 Gbit Ethernet

Schematic:



1 Gbit Ethernet and PoE

90° angled, THT
10 Gbit Ethernet

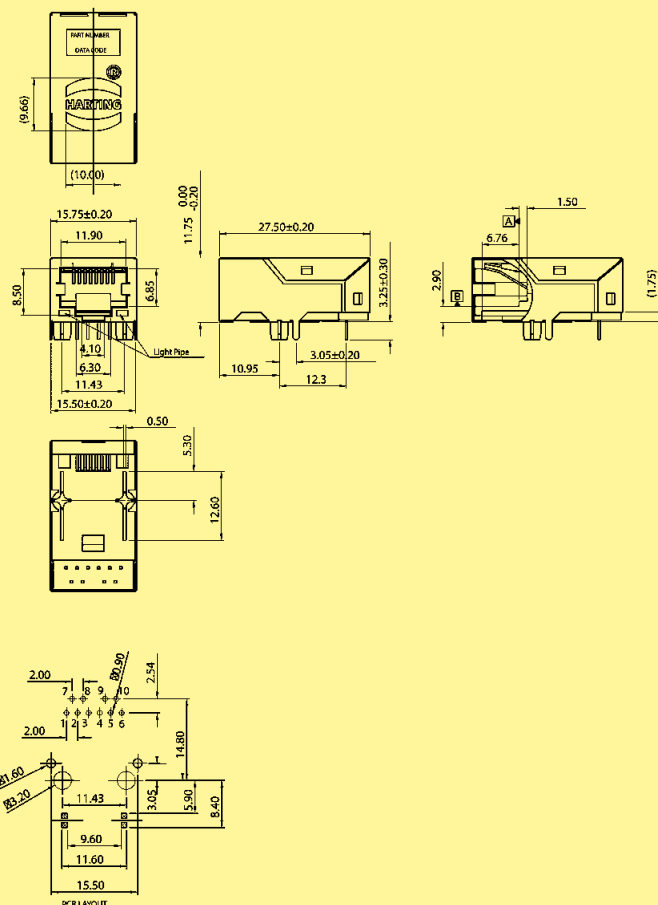
09 45 551 1130¹⁾

09 45 551 1131¹⁾

09 45 551 1530¹⁾

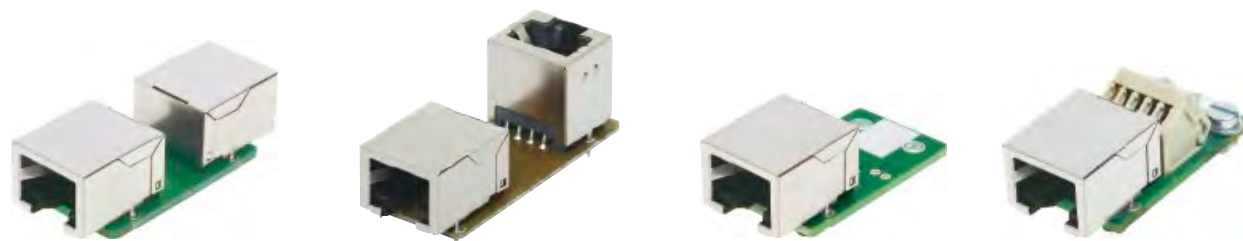
09 45 551 1531¹⁾

09 45 551 1560¹⁾



Customer specific versions on request

¹⁾ Packaging: Blister à 56 pieces



HARTING RJ Industrial® RJ45 – coupler and adapter PCB's

Advantages

- Compatible with Han® 3 A¹⁾ and HARTING PushPull
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)
- Temperature range -40 °C ... +70 °C

Technical characteristics

Rated voltage	125 V AC
Rated current	1.5 A
Mating face	RJ45 acc. to IEC 60603-7
Mating cycles	min. 750

Identification

Part No.

Drawing

Dimensions in mm

Coupler PCB 2x RJ45 8-poles

2 x RJ45 jack
(09 45 551 1102)

09 45 545 1130

1 x RJ45 jack horizontal
(09 45 551 1102) and
1 x RJ45 jack vertical
(09 45 551 1103)

09 45 545 1138

Adapter PCB 1x RJ45 8-poles

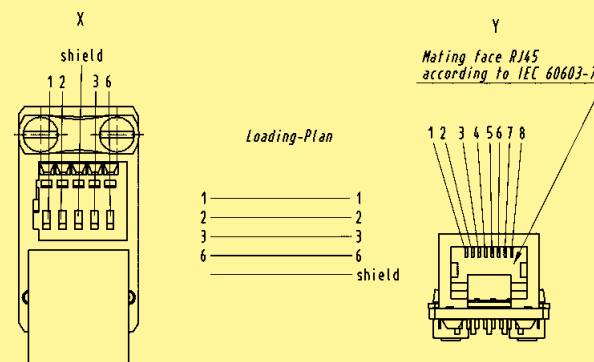
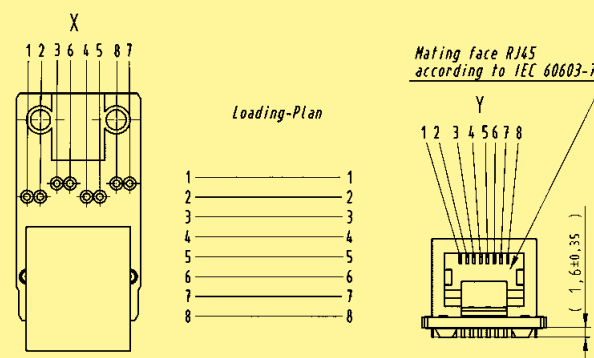
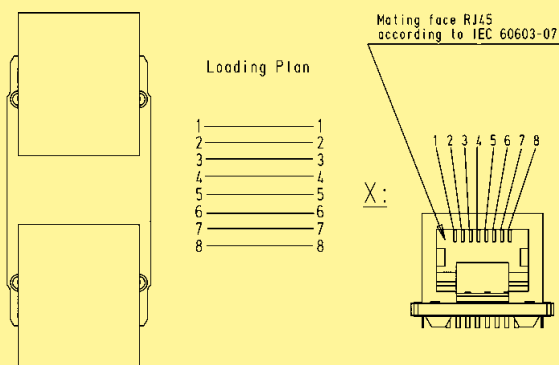
to solder points

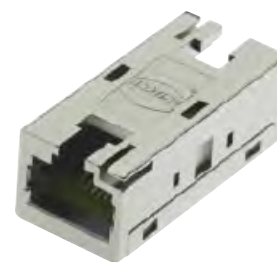
09 45 545 1134

Adapter PCB 1x RJ45 8-poles

cage clamp, 5-pole, 1.5 mm²

09 45 545 1135





HARTING RJ Industrial® 10G RJ45 bulkhead

Advantages

- Compact and robust design
- 360° shielding
- Compatible with HIFF dimensions for use in:
 - Han® 3 A series
 - HARTING PushPull (V4)
 - Han® PushPull (V14)
 - har-port
 Details see page 01.11
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)

Technical characteristics

Mating face	RJ45 acc. to IEC 60 603-7
Number of contacts	8
Transmission category	Cat. 6, performance class E _A , suitable for 1/10 Gigabit Ethernet
Degree of protection	IP 20
Mating cycles	min. 750
Temperature range	–40 °C ... +70 °C
Housing material	Zinc die-cast, nickel-plated
Flammability acc. to UL 94	V0

Identification

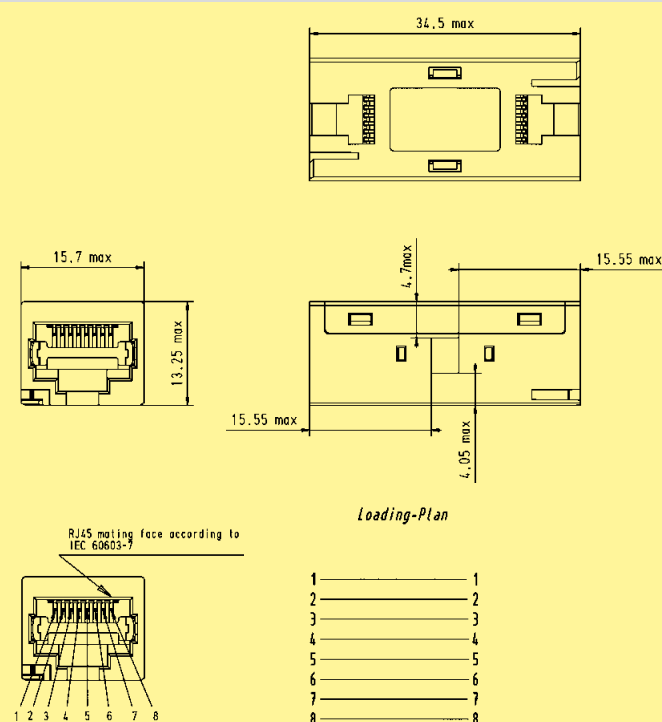
HARTING RJ Industrial® 10G RJ45 bulkhead

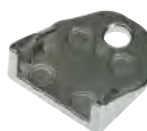
Part No.

09 45 545 1560

Drawing

Dimensions in mm





Ha-VIS preLink® RJ45 jack

Advantages

- Compact and robust design
- 360° shielding
- Compatible with HIFF dimensions for use in:
 - Han® 3 A series
 - HARTING PushPull (V4)
 - Han® PushPull (V14)
 - *har-port*
 Details see page 01.11
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)

Technical characteristics

Mating face	RJ45 acc. to IEC 60 603-7
Number of contacts	8
Transmission category	Cat. 6, performance class E _A , suitable for 1/10 Gigabit Ethernet
Connectable cables	
- Conductor cross section	AWG 22 - AWG 24 solid and stranded (0.25 - 0.34 mm ²)
- Cable diameter	5 - 9 mm
- Conductor diameter	1.3 - 1.6 mm
Degree of protection	IP 20
Mating cycles	min. 750
Temperature range	-40 °C ... +70 °C
Housing material	Zinc die-cast, nickel-plated

Identification	Part No.	Drawing	Dimensions in mm
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Ha-VIS preLink® set RJ45 jack

consists of:

- 1x RJ45 module
- 1x terminal module
- 1x cable tie

AWG 22/23
AWG 26/27

20 82 001 0001
20 82 001 0002

Ha-VIS preLink® RJ45 jack module

20 82 000 0002

Ha-VIS preLink® RJ45 terminal module

AWG 22/23, yellow¹⁾
AWG 26/27, white¹⁾

20 82 000 0001
20 82 000 0003

Ha-VIS preLink® protection cover

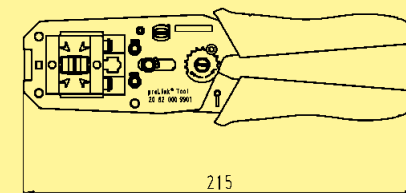
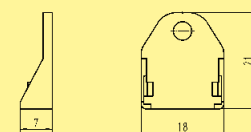
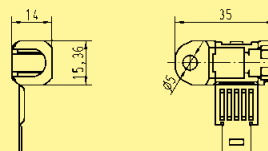
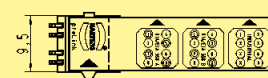
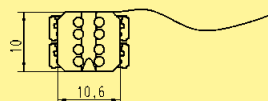
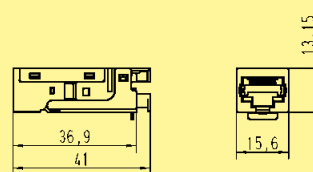
20 82 000 9915

Ha-VIS preLink® unlocking tool

20 82 000 9916

Ha-VIS preLink® assembly tool

20 82 000 9901





HARTING RJ Industrial® cable jack

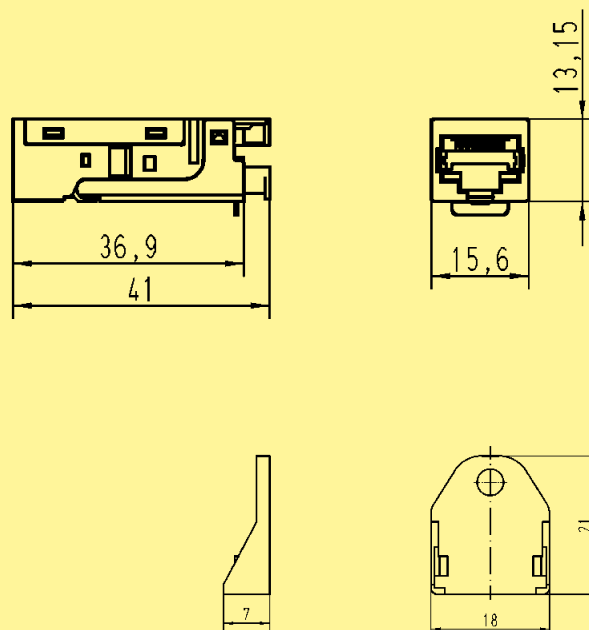
Advantages

- Compact and robust design
- 360° shielding
- Category of transmission Cat. 6
- Suitable for solid and stranded wires
- Field-assembly with *HARAX*® quick termination in IDC technology
- Compatible with HIFF dimensions for use in:
 - Han® 3 A series with HIFF adapter 09 45 515 0024
 - HARTING PushPull (V4)
 - Compact bulkhead mounting housing 09 45 545 0028
 - EasyInstall bulkhead mounting housing 09 45 545 0032
 - Han® PushPull (V14)
 - Panel feed-through plastic 09 35 012 0331
 - Panel feed-through metal rectangular 09 35 012 0311
 - Panel feed-through metal circular 09 35 012 0312
 - *har*-port 09 45 452 0000
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)

Technical characteristics

Connector type	RJ45 connector acc. to IEC 60 603-7
Number of contacts	8
Transmission category	Category 6, class E _A , suitable for 1/10 Gigabit Ethernet
Transmission performance	Category 6 / Class E _A up to 500 MHz acc. to ISO/IEC 11 801:2002, EN 50 173-1
Transmission rate	10/100 Mbit/s and 1/10 Gbit/s
Shielding	fully shielded, 360° shielding contact
Mounting	Field-assembly
Cable termination	with IDC-contacts, without tools
Connectable cables	
- Conductor cross section	AWG 27 ... AWG 24 (solid/stranded) ¹⁾
- Conductor diameter	AWG 24 ... AWG 22 (solid/stranded) ²⁾
- Cable diameter	max. 1.6 mm (incl. insulation)
- Cable diameter	5 ... 9 mm
Mating cycles	min. 750
Degree of protection	IP 20
Temperature range	-40 °C ... +70 °C
Housing material	Zinc die-cast, nickel-plated

Identification	Part No.	Drawing	Dimensions in mm
HARTING RJ Industrial® 10G cable jack, 8-poles			
AWG 28 ... 24	09 45 545 1561		
AWG 24 ... 22	09 45 545 1562		
HARTING RJ Industrial® PN cable jack, 4-poles, Cat. 5			
AWG 24 ... 22	09 45 545 1120		
Unlocking tool for opening of the HARTING RJ Industrial® cable jacks	20 82 000 9916		



¹⁾ For part number 09 45 545 1561

²⁾ For part number 09 45 545 1562 and 09 45 545 1120



Advantages

- RJ45 Ethernet-Data connector suitable for industry
- Tool-less field-assembly with *HARAX*® rapid termination in IDC technology
- Compact design
- Ergonomical unlocking clip
- Less weight assures shock- and vibration-resisting connection
- Category of transmission Cat. 5
- Suitable for termination of solid and stranded cables
- Up to 10 x reconductable
- PROFINET compatible
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)

Technical characteristics

Connector type	RJ45 connector acc. to IEC 60 603-7
Number of contacts	4
Transmission performance	Category 5 / Class D up to 100 MHz acc. to ISO/IEC 11 801:2002, EN 50 173-1
Transmission rate	10/100 Mbit/s
Mounting	field-assembly
Cable termination	with IDC-contacts, without tools
Connectable cables	
- Conductor cross section	AWG 24/7 ... AWG 22/7 (stranded) AWG 23/1 ... AWG 22/1 (solid) AWG 26/7 (09 45 151 1109)
- Conductor diameter	max. 1.6 mm (09 45 151 1100 / 09 45 151 1108) max. 1.2 mm (09 45 151 1109)
- Cable diameter	6.1 ... 6.9 mm
Mating cycles	min. 750
Degree of protection	IP 20
Temperature range	-40 °C ... +70 °C
Housing material	Polyamide, UL 94-V0
Colour	black
	UL approval (E102079)

Identification

HARTING RJ Industrial®
connector set RJ45, 4-poles

incl.:
housing with shielding,
splicing element, cable gland
and instruction manual

like 09 45 151 1100
but for AWG 26

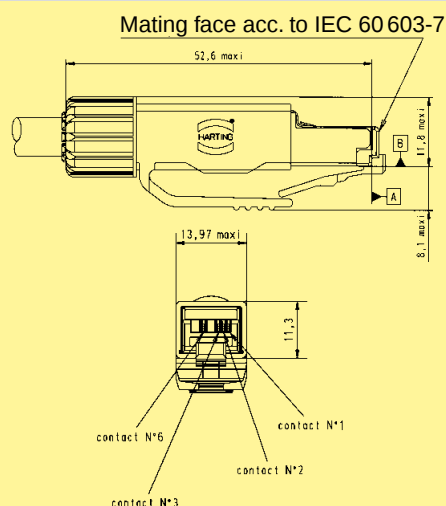
Part No.

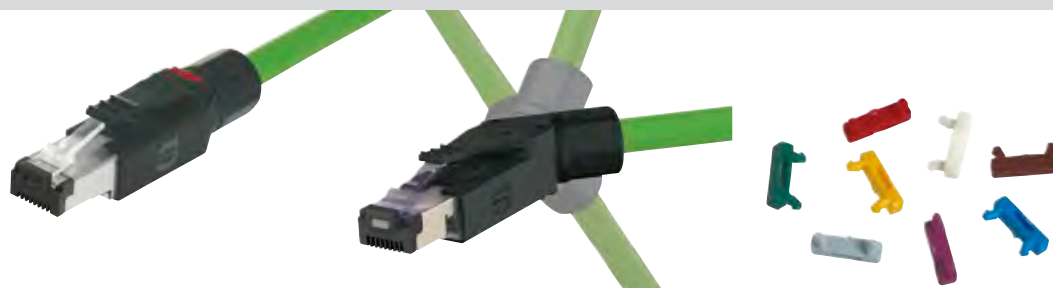
09 45 151 1100
09 45 151 1108¹⁾

09 45 151 1109

Drawing

Dimensions in mm





HARTING RJ Industrial® PN connector set RJ45, 4-poles

Advantages

- RJ45 Ethernet-Data connector suitable for industry
- Field-assembly with *HARAX*® quick termination in IDC technology
- Compact design
- Ergonomically unlocking clip
- Less weight assures shock- and vibration resisting connection
- Category of transmission Cat. 5
- Suitable for solid and stranded wires
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)

Technical characteristics

Connector type	RJ45 connector acc. to IEC 60 603-7
Number of contacts	4
Transmission category	Category 5, class D
Transmission performance	Category 5 / Class D up to 100 MHz acc. to ISO/IEC 11 801:2002, EN 50 173-1
Transmission rate	10/100 Mbit/s
Shielding	fully shielded, 360° shielding contact
Mounting	Field-assembly
Cable termination	with IDC-contacts, without tools
Connectable cables	
- Conductor cross section	AWG 27 ... AWG 22 (solid / stranded)
- Conductor diameter	max. 1.6 mm (incl. insulation)
- Cable diameter	4.5 ... 9 mm (straight version) 4.5 up to 8 mm (45° angled version)
Mating cycles	min. 750
Degree of protection	IP 20
Temperature range	-40 °C ... +70 °C
Housing material	Polyamide, UL 94-V0
Colour	black

Identification

Part No.

Drawing

Dimensions in mm

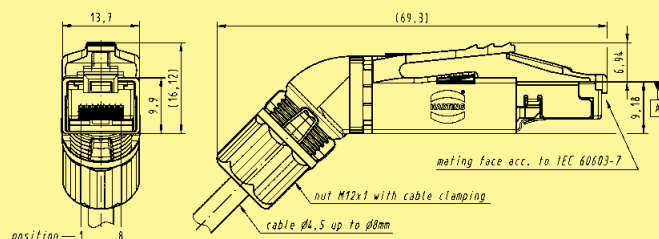
HARTING RJ Industrial® PN connector set RJ45, 4-poles

straight version

09 45 151 1120

45° angled version
(four different cable outlets possible)

09 45 151 1121



Identification

Colour

Part No.

Colour clips for colour coding the HARTING RJ Industrial® PN connector

If required the colour clips can be equipped with an RFID-chip for automatic patch cable-ID recognition and storage.

White
Grey
Yellow
Magenta
Red
Blue
Green
Brown

09 45 850 0001
09 45 850 0002
09 45 850 0003
09 45 850 0005
09 45 850 0007
09 45 850 0008
09 45 850 0009
09 45 850 0010



HARTING RJ Industrial® connector set RJ45, 8-poles

Advantages

- RJ45 Ethernet-Data connector suitable for industry
- Field-assembly with piercing contacts
- Compact design
- Ergonomically unlocking clip
- Less weight assures shock- and vibration resisting connection
- Category of transmission Cat. 6_A
- Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)

Technical characteristics

Connector type	RJ45 connector acc. to IEC 60 603-7
Number of contacts	8
Transmission performance	Category 6 _A / Class E _A up to 500 MHz acc. to ISO/IEC 11 801:2002, EN 50 173-1
Transmission rate	10/100 Mbit/s and 1/10 Gbit/s
Shielding	fully shielded, 360° shielding contact
Mounting	Field-assembly
Cable termination	with piercing contacts
Connectable cables	
- Conductor cross section	AWG 28/7 ... AWG 24/7 (stranded)
- Conductor diameter	max. 1.05 mm (incl. insulation)
- Cable diameter	6.1 ... 6.9 mm
Mating cycles	min. 750
Degree of protection	IP 20
Temperature range	-40 °C ... +70 °C
Housing material	Polycarbonate, UL 94-V0
Colour	black
	UL approval (E102079)



Identification

Part No.

Drawing

Dimensions in mm

HARTING RJ Industrial® connector set RJ45, 8-poles

incl.:
housing with shielding, cable gland
and instruction manual

09 45 151 1520
09 45 151 1520 XL¹⁾

Assembly tool
for 09 45 151 1520

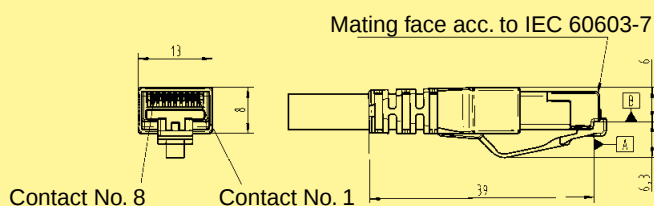
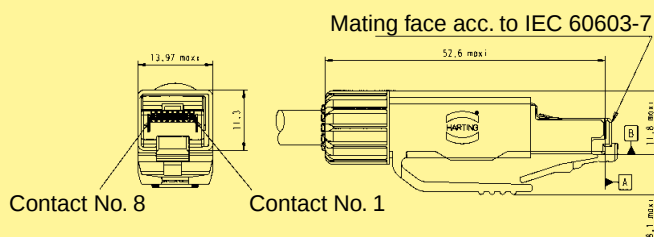
09 45 800 0520

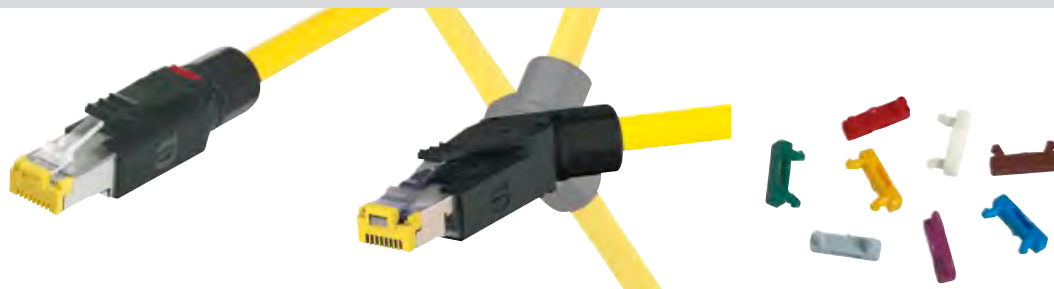
Compact version

09 45 151 1525¹⁾

Assembly tool
for 09 45 151 1525

09 45 800 0025



RJ45
RJ Industrial

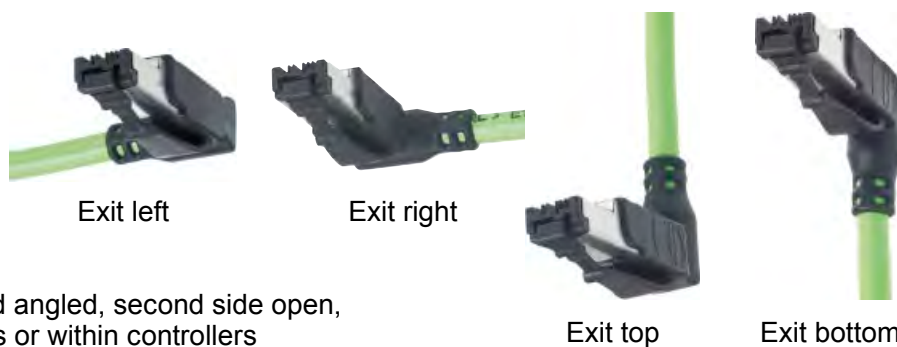
RJ45 RJ Industrial	Identification	Part No.	
	HARTING RJ Industrial® Stripping Tool Stripping tool for Ethernet cables including blade cassette Spare blade cassette	09 45 800 0000 09 45 800 0001	 The RJ Industrial Stripping Tool is ready to remove insulation from cables for fast mounting with diameters from 2.5 to 8 mm quick and easy. It allows to remove cable sheath and shielding braid in one.
	Stripping tool	09 45 800 0002	
	HARTING RJ Industrial® Gigalink Mounting tools for HARTING RJ Industrial® Gigalink connectors for HARTING RJ Industrial® Gigalink Cat. 6A compact connectors	09 45 800 0520 09 45 800 0525	 With the RJ Industrial Gigalink Assembly Tool Ethernet connectors can be quickly, easily and reliably connected to flexible cables.
	Wire cutter	09 45 800 0005	
	Cable shear	09 45 800 0004	



HARTING RJ Industrial® system cable RJ45, 4-wire, IP 20 RJ45 patch cords for switch cabinet or PLC



Description	Part No.		Technical characteristics
	Standard	Multipoint	
For the cabling of Industrial Ethernet networks (for example in accordance with the PROFINET guideline), based on RJ45 connectors. Wiring: Contacts RJ45 1/2 and 3/6			Transmission properties in accordance with ISO/IEC 11801:2002: Class D Mating face: 2 x RJ45 in acc. with IEC 60603-7 Protection level: IP 20 (if mated) Temperature range -40 °C ... +70 °C Electrical characteristics at 20 °C Contact resistance: ≤ 20 mΩ Insulation resistance: ≥ 500 MΩ Dielectric withstanding voltage: contact - contact 1 kV contact - ground 1.5 kV Electrical characteristics after damp heat cycles Contact resistance: ≤ 20 mΩ Insulation resistance: ≥ 100 MΩ Dielectric withstanding voltage: contact - contact 1 kV contact - ground 1.5 kV
HARTING RJ Industrial® system cable RJ45, 4-wire Type A  Length 1.5 m Length 3.0 m Length 5.0 m Length 10.0 m Length 20.0 m	09 45 771 0023 09 45 771 0025 09 45 771 0027 09 45 771 0051 09 45 771 0053	09 47 343 4006 09 47 343 4009 09 47 343 4012 09 47 343 4018 09 47 343 4020	Cable type: Industrial Ethernet Standard Cable, 2 x 2 x AWG 22/1, double shielding (PROFINET Typ A) Sheath: PVC green, Ø 6.5 mm Connectors: 2 x HARTING RJ Industrial® IP 20 Data with overmolded housings
HARTING RJ Industrial® system cable RJ45, 4-wire Type B  Length 1.5 m Length 3.0 m Length 5.0 m Length 10.0 m Length 20.0 m	09 45 771 1123 09 45 771 1125 09 45 771 1127 09 45 771 1151 09 45 771 1153	09 47 343 4034 09 47 343 4037 09 47 343 4040 09 47 343 4046 09 47 343 4048	Cable type: Industrial Ethernet Stranded Cable, 2 x 2 x AWG 22/7, double shielding (PROFINET Typ B) Sheath: PVC green, Ø 6.5 mm Connectors: 2 x HARTING RJ Industrial® IP 20 Data with overmolded housings
HARTING RJ Industrial® system cable RJ45, 4-wire Type C  Length 1.5 m Length 3.0 m Length 5.0 m Length 10.0 m Length 20.0 m	09 45 771 1164 09 45 771 1166 09 45 771 1168 09 45 771 1173 09 45 771 1175	09 47 343 4090 09 47 343 4093 09 47 343 4096 09 47 343 4102 09 47 343 4104	Cable type: Industrial Ethernet Trailing Cable, 2 x 2 x AWG 22/7, double shielding (PROFINET Typ C) Sheath: PUR green, Ø 6.5 mm Connectors: 2 x HARTING RJ Industrial® IP 20 Data with overmolded housings



HARTING RJ Industrial® system cable RJ45 angled, 4-wire, IP 20

RJ45 connection cable, first end angled, second side open,
for control or distributor cabinets or within controllers

Identification		Part No.			
		angled left	angled right	angled top	angled bottom
HARTING RJ Industrial® System cable RJ45 angled, 4-wire					
one side pre-assembled, second side open	Length 0.5 m	09 47 050 0001	09 47 060 0001	09 47 030 0001	09 47 040 0001
	Length 1.0 m	09 47 050 0002	09 47 060 0002	09 47 030 0002	09 47 040 0002
Cable type A, green 2 x 2 x AWG 22/1	Length 1.5 m	09 47 050 0003	09 47 060 0003	09 47 030 0003	09 47 040 0003
	Length 2.0 m	09 47 050 0004	09 47 060 0004	09 47 030 0004	09 47 040 0004
	Length 3.0 m	09 47 050 0005	09 47 060 0005	09 47 030 0005	09 47 040 0005
	Length 5.0 m	09 47 050 0007	09 47 060 0007	09 47 030 0007	09 47 040 0007
HARTING RJ Industrial® System cable RJ45 angled, 4-wire					
one side pre-assembled, second side open	Length 0.5 m	09 47 050 0023	09 47 060 0023	09 47 030 0023	09 47 040 0023
	Length 1.0 m	09 47 050 0024	09 47 060 0024	09 47 030 0024	09 47 040 0024
Cable type B, green 2 x 2 x AWG 22/7	Length 1.5 m	09 47 050 0025	09 47 060 0025	09 47 030 0025	09 47 040 0025
	Length 2.0 m	09 47 050 0026	09 47 060 0026	09 47 030 0026	09 47 040 0026
	Length 3.0 m	09 47 050 0027	09 47 060 0027	09 47 030 0027	09 47 040 0027
	Length 5.0 m	09 47 050 0029	09 47 060 0029	09 47 030 0029	09 47 040 0029
HARTING RJ Industrial® System cable RJ45 angled, 4-wire					
one side pre-assembled, second side open	Length 0.5 m	09 47 050 0045	09 47 060 0045	09 47 030 0045	09 47 040 0045
	Length 1.0 m	09 47 050 0046	09 47 060 0046	09 47 030 0046	09 47 040 0046
Cable type C, green 2 x 2 x AWG 22/7	Length 1.5 m	09 47 050 0047	09 47 060 0047	09 47 030 0047	09 47 040 0047
	Length 2.0 m	09 47 050 0048	09 47 060 0048	09 47 030 0048	09 47 040 0048
	Length 3.0 m	09 47 050 0049	09 47 060 0049	09 47 030 0049	09 47 040 0049
	Length 5.0 m	09 47 050 0051	09 47 060 0051	09 47 030 0051	09 47 040 0051
HARTING RJ Industrial® System cable RJ45 angled, 4-wire					
one side pre-assembled, second side open	Length 0.5 m	09 47 050 0067	09 47 060 0067	09 47 030 0067	09 47 040 0067
	Length 1.0 m	09 47 050 0068	09 47 060 0068	09 47 030 0068	09 47 040 0068
Outdoor cable, black 2 x 2 x AWG 22/7	Length 1.5 m	09 47 050 0069	09 47 060 0069	09 47 030 0069	09 47 040 0069
	Length 2.0 m	09 47 050 0070	09 47 060 0070	09 47 030 0070	09 47 040 0070
	Length 3.0 m	09 47 050 0071	09 47 060 0071	09 47 030 0071	09 47 040 0071
	Length 5.0 m	09 47 050 0073	09 47 060 0073	09 47 030 0073	09 47 040 0073



har-port USB coupler

Advantages

- Compact and well-shaped service interface in a timeless attractive design
- Easy mounting
- Compact and robust design
- Practical accessories

Technical characteristics

Number of ports	2x USB Typ A
Mounting	Screwable in cover plates
Degree of protection	IP 20
Mating cycles	min. 1500
Temperature range	-25 °C ... +70 °C
Housing material	Polyamide

Identification

Part No.

Drawing

Dimensions in mm

har-port USB 2.0 A-A coupler

09 45 452 1901

har-port USB 3.0 A-A coupler

09 45 452 1902

har-port USB 2.0 A-A coupler with cable

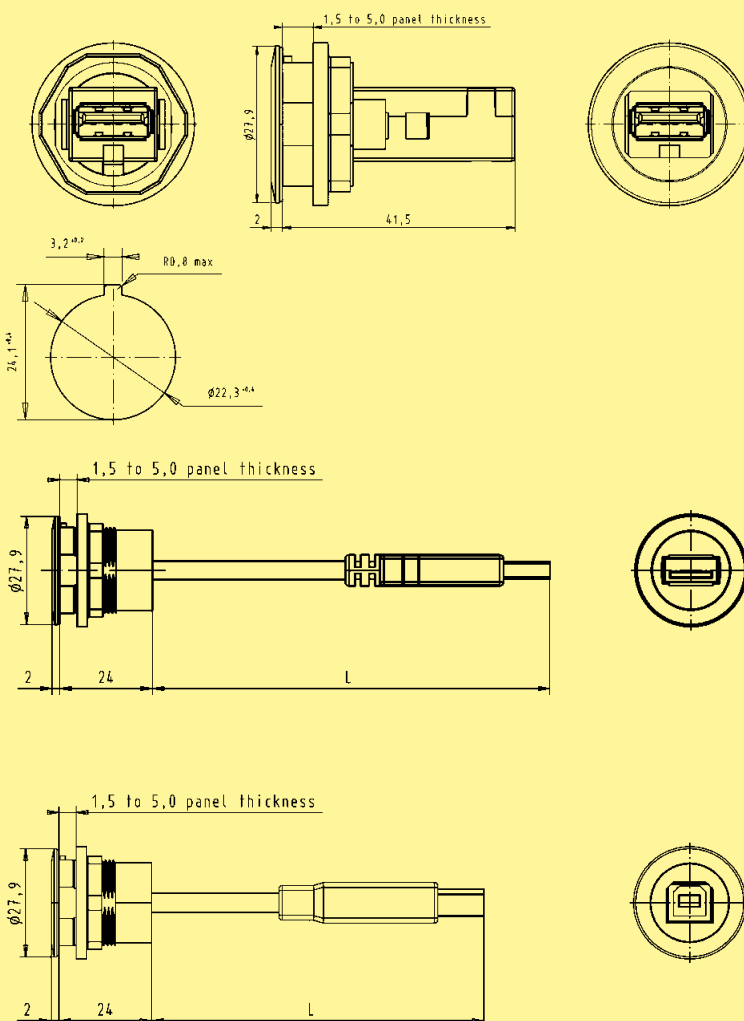
Length: 0.5 m
1.0 m
1.5 m
2.0 m
3.0 m
5.0 m

09 45 452 1920
09 45 452 1921
09 45 452 1922
09 45 452 1923
09 45 452 1924
09 45 452 1925

har-port USB 2.0 B-B coupler with cable

Length: 0.5 m
1.0 m
1.5 m
2.0 m
3.0 m
5.0 m

09 45 452 1910
09 45 452 1911
09 45 452 1912
09 45 452 1913
09 45 452 1914
09 45 452 1915





har-port RJ45 coupler

Advantages

- Compact and well-shaped service interface in a timeless attractive design
- Easy mounting
- Transmission category 6, performance class E_A, suitable for 1/10 Gigabit Ethernet
- Compact and robust design
- Practical accessories

Technical characteristics

Number of ports	2x RJ45
Transmission performance	Category 6 / class E _A acc. to ISO/IEC 11 801:2002, EN 50 173-1
Transmission rate	10/100 Mbit/s and 1/10 Gbit/s
Shielding	Fully shielded, 360° shielding contact
Mounting	Screwable in cover plates
Degree of protection	IP 20
Mating cycles	min. 750
Temperature range	-25 °C ... +70 °C
Housing material	Polyamide

Identification

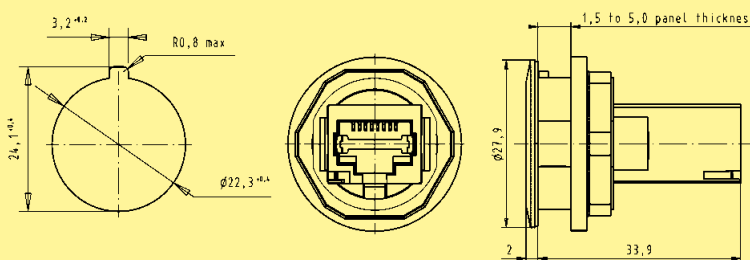
Part No.

Drawing

Dimensions in mm

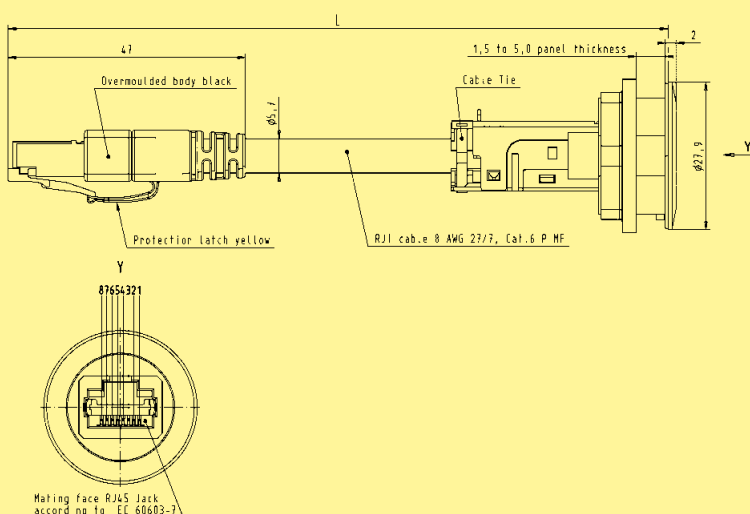
har-port RJ45 Cat. 6 coupler

09 45 452 1560



har-port RJ45 Cat. 6 coupler with cable

Length:	0.2 m	09 45 452 1501
	0.3 m	09 45 452 1502
	0.5 m	09 45 452 1504
	0.7 m	09 45 452 1506
	1.0 m	09 45 452 1509
	1.5 m	09 45 452 1510
	2.0 m	09 45 452 1511
	3.0 m	09 45 452 1513
	5.0 m	09 45 452 1516
	7.5 m	09 45 452 1517
	10.0 m	09 45 452 1518



har-port HIFF coupler housing (for all HIFF compatible modules)

09 45 452 0000



har-port accessories

Advantages

- Compact and well-shaped service interface in a timeless attractive design
- Easy mounting
- Compact and robust design
- Practical accessories

Technical characteristics

Temperature range -25 °C ... +70 °C
Housing material Polyamide

Identification	Part No.	Drawing	Dimensions in mm
Accessories			
har-port protection cover IP 65 / IP 67 black	09 45 502 0000		
har-port sealing cover	09 45 502 0001		
har-port label holder	09 45 502 0002		
har-port label for label holder 09 45 502 0002	09 45 502 0003		
har-port blind cover IP 65 / IP 67	09 45 502 0004		
har-port protection cover IP 65 / IP 67 transparent	09 45 502 0005		