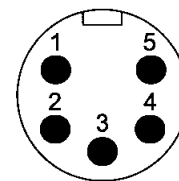


Specifications IEC 60 352-4
DIN 61984

Approval , VDE



Mating face



Mating face
acc. to IEC 61076-2-101

Technical characteristics 7/8" HARAX®

Type	7/8" HARAX®
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General data

Conductor cross section	0.75 - 1.5 mm ² AWG 18-16
Diameter of individual strands	≥ 0.15 mm
Conductor insulation material	PVC, PP, TPE
Conductor diameter	≤ 2.8 mm
Cable diameter	6.8 - 9.5 mm (black) 9 - 12.5 mm (grey)
Temperature range	-40 °C ... +85 °C
Temperature during connection	-5 °C ... +50 °C
Degree of protection	IP65 / IP67
Mating cycles	100
Recommended tightening torque / Hexagonal wrench	1.5 Nm / SW 22

Electrical characteristics

Rated current	10 A
Rated voltage	230 V / 400 V
Rated impulse voltage	4.8 kV
Contact resistance	10 mΩ
Insulation resistance	10 ⁸ Ω
Pollution degree	3
Overvoltage category	3
Isolation group	1

Materials

Contact material	Copper alloy
Contact plating	Gold
Contact carrier material	TPU, PA
Housing material	TPU, zinc die-cast, PA

Technical characteristics – System cables, 7/8" HARAX®

Degree of protection	IP67
Temperature range	
applies to moved cable	-20 °C ... +80 °C
cables permanently installed	-50 °C ... +80 °C
Rated current	max. 8 A every contact (+40 °C)
Rated voltage	230 / 400 V
Rated impulse voltage	3 kV
Pollution degree	3
Material group	Category I acc. to IEC 60664-1

Cable data

Jacket material	PUR
Jacket colour	grey
Wire isolation	TPM
Wire colours	brown, white, blue, black, green/yellow
Wire gauge	5 x 1.5 mm ²
Standards	UL / CSA

05

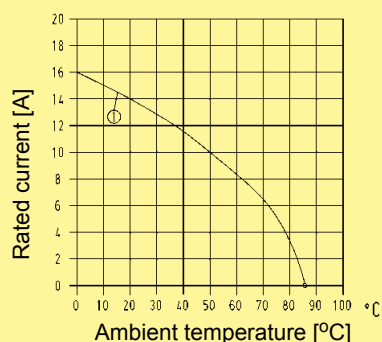
Technical characteristics 7/8" HARAX®

Current carrying capacity The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5.

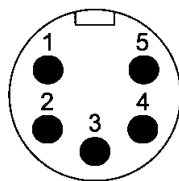
7/8"

1 = Wire gauge 0.75 mm² /
1.5 mm²





Mating face



Mating face
acc. to IEC 61076-2-101



Applications / Advantages

- The reliable connector for power applications
- Patent HARAX® fast termination
- Overmoulded system cables in various lengths
- Robust design, quick assembly

Identification

Part No.

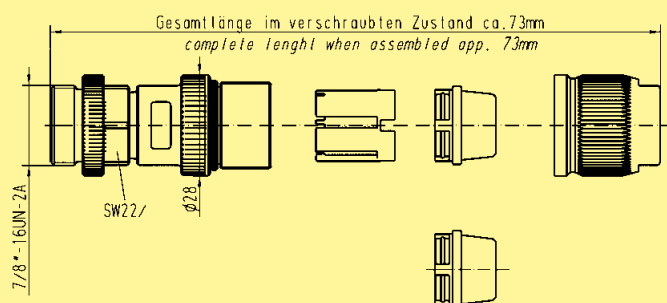
Drawing

Dimensions in mm

7/8" HARAX® Male

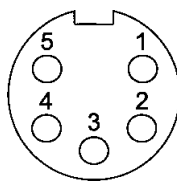


21 04 116 1505





Mating face



Mating face
acc. to IEC 61076-2-101



Identification

Part No.

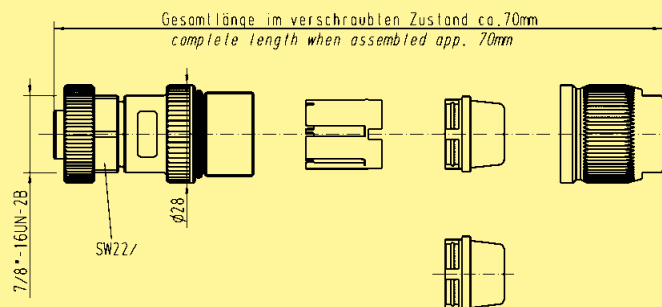
Drawing

Dimensions in mm

7/8" HARAX® Female

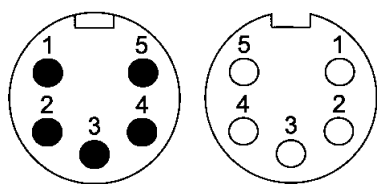


21 04 116 2505

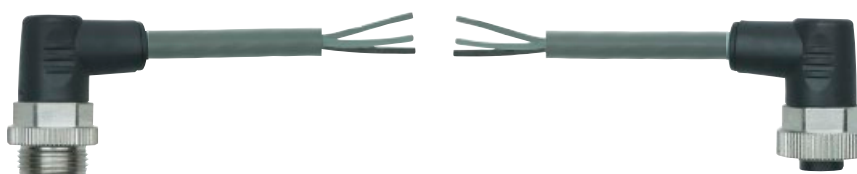


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Mating face



Mating face
acc. to IEC 61076-2-101



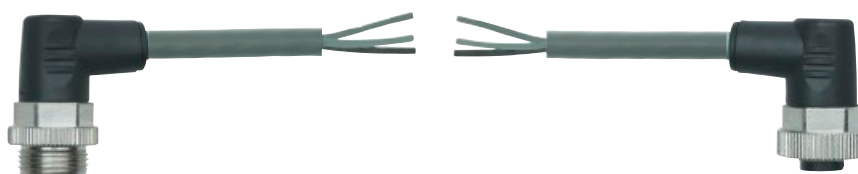
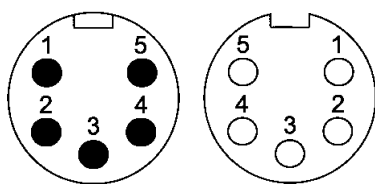
Technical characteristics

Degree of protection	IP67
Temperature range	
applies to moved cable	-20 °C ... +80 °C
cables permanently installed	-50 °C ... +80 °C
Rated current	max. 8 A every contact (+40 °C)
Rated voltage	230 / 400 V
Rated impulse voltage	3 kV
Pollution degree	3
Material group	Category I acc. to IEC 60664-1
Cable data	
Jacket material	PUR
Jacket colour	grey
Wire isolation	TPM
Wire colours	brown, white, blue, black, green/yellow
Wire gauge	5 x 1.5 mm ²
Standards	UL / CSA

7/8" System cables

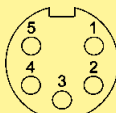
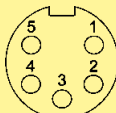


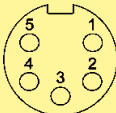
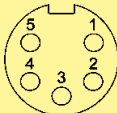
Mating face



Mating face
acc. to IEC 61076-2-101

Overview system cables 7/8"

Number of contacts			Male 7/8"			
			straight		angled	
			 Cable material: PUR		 Cable material: PUR	
Female 7/8"	straight		0.3 m	21 04 416 1501	xxx	
			0.6 m	21 04 416 1502	xxx	
			1.0 m	21 04 416 1503	xxx	
			1.5 m	21 04 416 1504	xxx	
			2.0 m	21 04 416 1505	xxx	
	angled		xxx		0.3 m	21 04 416 3501
			xxx		0.6 m	21 04 416 3502
			xxx		1.0 m	21 04 416 3503
			xxx		1.5 m	21 04 416 3504
			xxx		2.0 m	21 04 416 3505

Number of contacts			Female 7/8"			
			straight		angled	
			 Cable material: PUR		 Cable material: PUR	
Open end		1.5 m	21 04 516 2501	1.5 m	21 04 516 4501	
		3.0 m	21 04 516 2502	3.0 m	21 04 516 4502	
		5.0 m	21 04 516 2503	5.0 m	21 04 516 4503	
		7.5 m	21 04 516 2504	7.5 m	21 04 516 4504	
		10.0 m	21 04 516 2505	10.0 m	21 04 516 4505	

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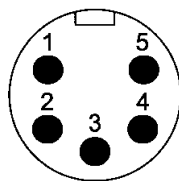


Identification	Part No.	Drawing	Dimensions in mm
Overmoulded cordsets 7/8" Female straight 5 poles Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 04 516 2501 21 04 516 2502 21 04 516 2503 21 04 516 2504 21 04 516 2505	Schematic diagram View mating side	
Overmoulded cordsets 7/8" Female angled 5 poles Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 04 516 4501 21 04 516 4502 21 04 516 4503 21 04 516 4504 21 04 516 4505	Schematic diagram View mating side	
Overmoulded cordsets 7/8" Male-Female straight 5 poles Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m	21 04 416 1501 21 04 416 1502 21 04 416 1503 21 04 416 1504 21 04 416 1505	Schematic diagram View mating side	
Overmoulded cordsets 7/8" Male-Female angled 5 poles Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m	21 04 416 3501 21 04 416 3502 21 04 416 3503 21 04 416 3504 21 04 416 3505	Schematic diagram View mating side	

7/8" Panel feed-through



Mating face



Mating face
acc. to IEC 61076-2-101



Identification

Part No.

Drawing

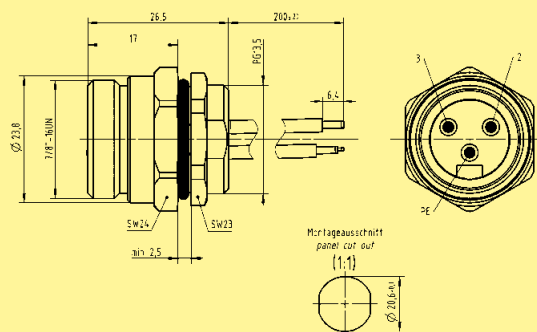
Dimensions in mm

7/8" Panel feed-through

20 cm conductors, AWG 18, 1 mm², 3 poles

Male

21 04 316 1305

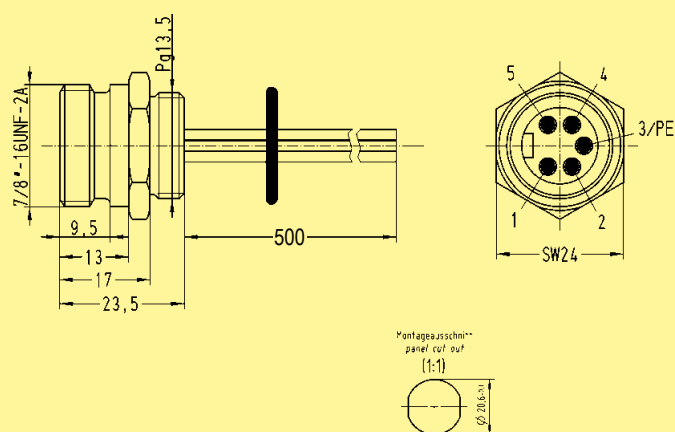


7/8" Panel feed-through

50 cm conductors, AWG 18, 1 mm², 5 poles

Male

21 04 316 1505

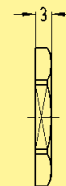
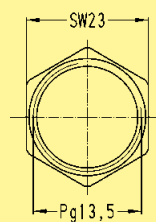


Identification	Part No.	Drawing	Dimensions in mm
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Lock nut Pg 13.5
nickel plated



21 01 000 0020



7/8"
dynamometric screwdriver
Tightening torque 1.5 Nm

for 7/8"

SW 23

09 99 000 0395

