



Pushing Performance

HARTING M8/M12 Circular Connectors



People | Power | Partnership

Technical characteristics

Specifications

IEC 60352-4
IEC 61076-2-101
IEC 61076-2-104

Approval

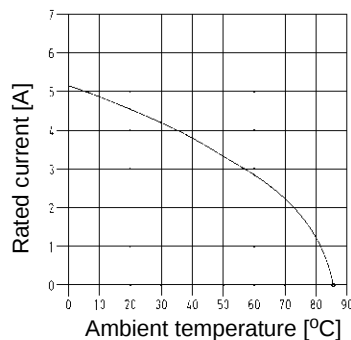


Construction type	HARAX® M8-S (0.08 mm²)	HARAX® M8-S/ M12-S	HARAX® M12 angled	HARAX® M12-L 3 poles, 4 poles	HARAX® M12-L 5 poles
Rated voltage	32 V	32 V	32 V	50 V	50 V
Rated current (see current carrying capacity)	2 A	4 A	4 A	6 A	4 A
Conductor cross section	0.08 - 0.14 mm² AWG 28 - 26	0.14 - 0.34 mm² AWG 26 - 22	0.25 - 0.5 mm² AWG 24/7 - 20	0.34 - 0.75 mm² AWG 22 - 18	0.25 - 0.34 mm² AWG 24 - 22 0.34 - 0.5 mm² AWG 22 - 20
Diameter of individual strands	≥ 0.05 mm	≥ 0.1 mm	≥ 0.1 mm	≥ 0.1 mm	≥ 0.1 mm
Conductor insulation material	PVC / PP / TPE	PVC / PP / TPE	PVC	PVC	PVC
Conductor diameter	0.6 - 1.0 mm	1.0 - 1.6 mm	1.2 - 1.6 mm	1.6 - 2.0 mm 2.0 - 2.6 mm	1.2 - 2.0 mm
Cable diameter	1.9 - 2.5 mm (transp.) 2.5 - 3.5 mm (grey)	M8-S: 2.5 - 5.1 mm M12-S: 2.9 - 4.0 mm (transp.) 4.0 - 5.1 mm (black)	4 - 5.1 mm	3 poles: 5.5 - 7.2 mm 4 poles: 6 - 8 mm	4.7 - 6 mm 6 - 8 mm
Limiting temperatures	- 25 °C / + 85 °C	- 25 °C / + 85 °C	- 25 °C / + 85 °C	- 25 °C / + 85 °C	- 40 °C / + 85 °C
Temperature during connection	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C
Degree of protection	IP 67	IP 67	IP 67	IP 65 / IP 67	IP 65 / IP 67
Termination cycles with the same cross section	10	10	10	10	10
Recommended tightening torque / Hexagonal wrench	0.4 Nm / SW 9	M8-S: 0.4 Nm / SW 9 M12-S: 0.6 Nm / SW 13	0.6 Nm / SW 13	0.6 Nm / SW 17	0.6 Nm / SW 17
Page	8	8 / 13	13	17	17

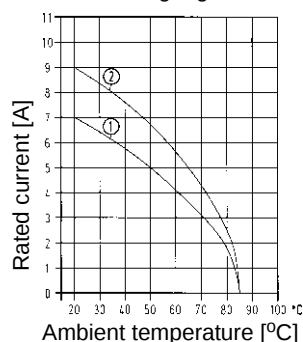
Current carrying capacity The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interruptet current-loaded contacts of connectors when simultaneous power on all contacts is given,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

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

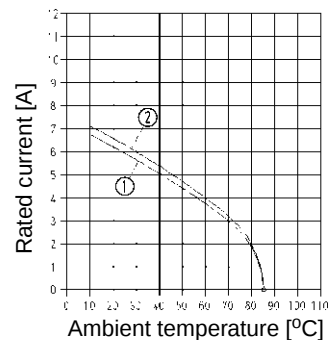
M8-S, 3 poles wire gauge 0.14 mm²



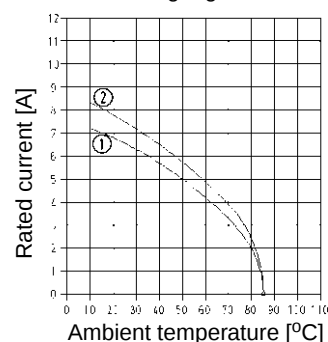
M12-L, 3 poles, 4 poles 1 = wire gauge 0.34 mm²
2 = wire gauge 0.75 mm²



M8-S, 4 poles 1 = wire gauge 0.25 mm²
M12-S, 4 poles 2 = wire gauge 0.34 mm²



M12, 4 poles, angled 1 = wire gauge 0.25 mm²
2 = wire gauge 0.5 mm²



Technical characteristics

Specifications

IEC 60352-4
IEC 61076-2-101
IEC 61076-2-104

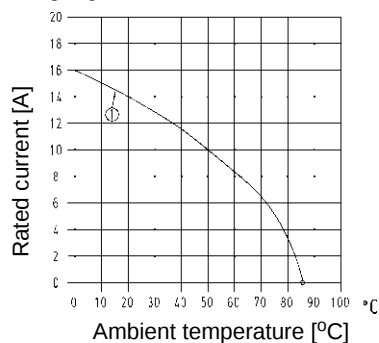
Approval



Construction type	HARAX® M12-L screened version, A-coded	HARAX® M12-L screened version PROFIBUS	Ethernet	Han® M12 Crimp	Han® 7/8"
Rated voltage	50 V	32 V	50 V	50 V	230 V / 400 V
Rated current (see current carrying capacity)	4 A	4 A	4 A	4 A	10 A
Conductor cross section	0.14 - 0.34 mm ² AWG 26 - 22	0.25 - 0.34 mm ² AWG 24 - 22	① 0.14 - 0.34 mm ² AWG 26 - 22 ② 0.34 - 0.5 mm ² AWG 22-20	0.34 - 0.5 mm ² AWG 22 - 20	0.75 - 1.5 mm ² AWG 18 - 16
Diameter of individual strands	≥ 0.1 mm	≥ 0.1 mm	≥ 0.1 mm		≥ 0.15 mm
Conductor insulation material	PVC	PVC, Zell-PE	PVC / PE		PVC, PP, TPE
Conductor diameter	1.2 - 1.6 mm	2 - 2.6 mm	1.2 - 2.0 mm	2.0 - 2.3 mm	≤ 2.8 mm
Cable diameter	7 - 8.8 mm	7 - 8.8 mm	① 5.5 - 7.2 mm (black) ② 7 - 8.8 mm (lightgrey)	4.5 - 5.4 mm (transparent) 7 - 8.8 mm (lightgrey)	6.8 - 9.5 mm (black) 9 - 12.5 mm (grey)
Limiting temperatures	- 25 °C / + 85 °C	- 25 °C / + 85 °C	- 25 °C / + 85 °C	- 40 °C / + 85 °C	- 40 °C / + 85 °C
Temperature during connection	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C	- 5 °C ... + 50 °C
Degree of protection	IP 67	IP 67	IP 67	IP 67	IP 65 / IP 67
Termination cycles with the same cross section	10	10	10		10
Recommended tightening torque / Hexagonal wrench	0.6 Nm / SW 17	0.6 Nm / SW 17	0.6 Nm / SW 17	0.6 Nm / SW 17	1.5 Nm / SW 22
Page	20	22	26	21 / 27	32

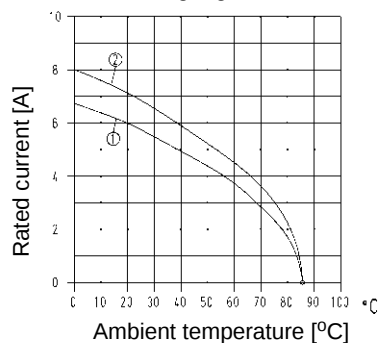
7/8"

1 = wire gauge 0.75 mm² / 1.5 mm²



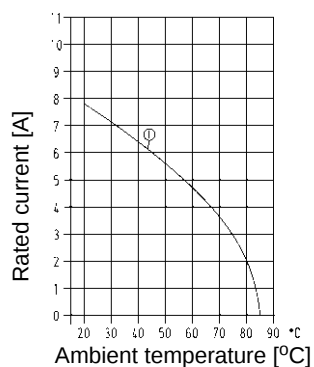
M12L, 5 poles

1 = wire gauge 0.25 mm²
2 = wire gauge 0.34 mm²



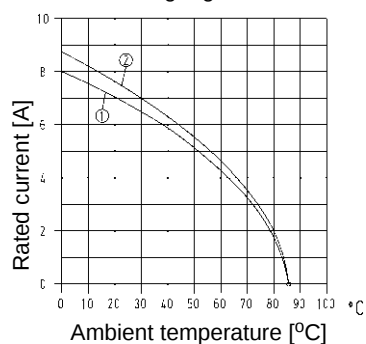
M12, Crimp

1 = wire gauge 0.34 mm² / 0.5 mm²

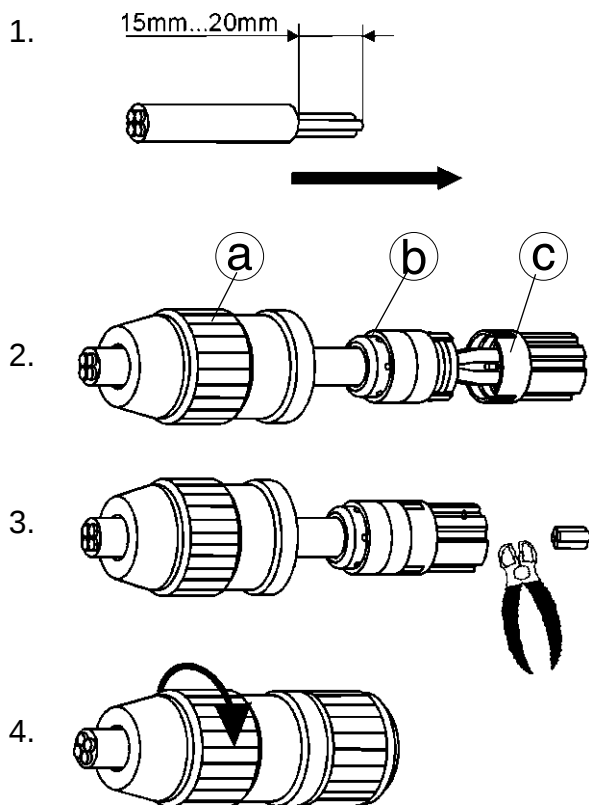


M12L, 5 poles

1 = wire gauge 0.34 mm²
2 = wire gauge 0.5 mm²



Assembly manual HARAX®, M8-S / M12-S unshielded



1. strip cable

2. assemble HARAX® elements

- Ⓐ Nut
- Ⓑ Strain relief
- Ⓒ Insert

3. cut off cable ends

Screw the nut onto the insert until a stop is noticeable.

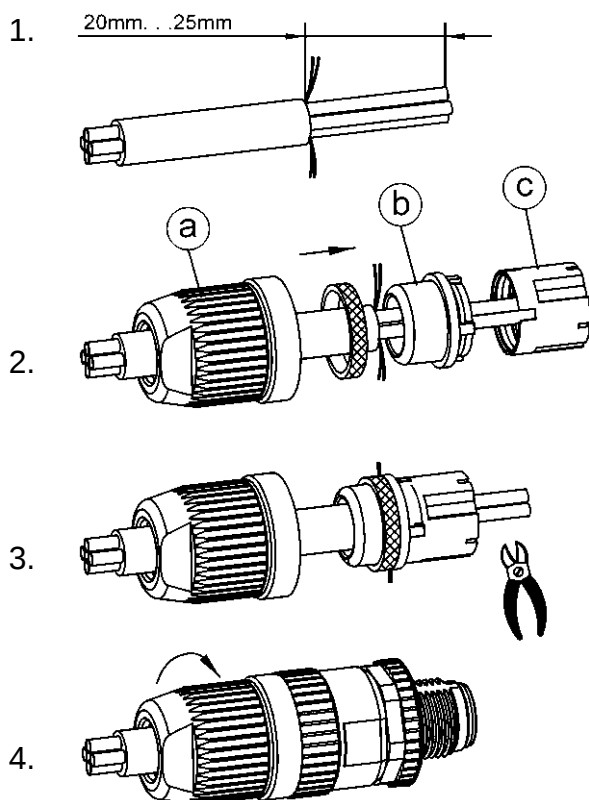
4. screw the connector

Note!

For reconnection cut off the used cable ends and repeat steps 1 to 4.

The seal has to be replaced when worn.

Assembly manual HARAX®, M12-L shielded



1. strip cable

2. assemble HARAX® elements

twist screening braid and push it into the sealing slot

- Ⓐ Nut
- Ⓑ Strain relief
- Ⓒ Insert

3. Slide ring over the sealing cut off cable ends and the screening braid

4. screw the connector

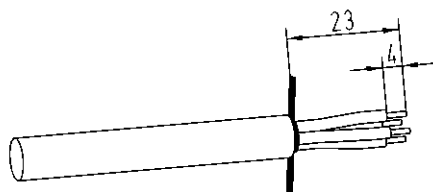
Note!

For reconnection cut off the used cable ends and repeat steps 1 to 4.

The seal has to be replaced when worn.

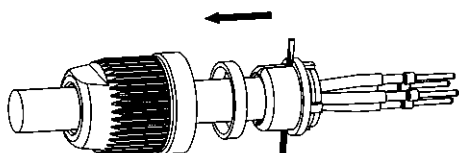
Assembly manual Han® M12 Crimp

1.



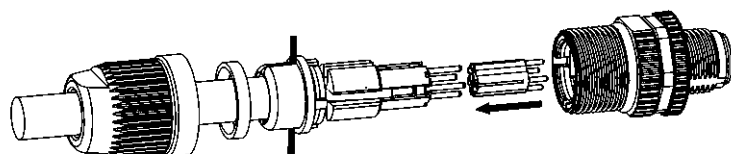
1. Remove cable jacket and strip cores. Twist screening braid as shown and crimp contacts.

2.



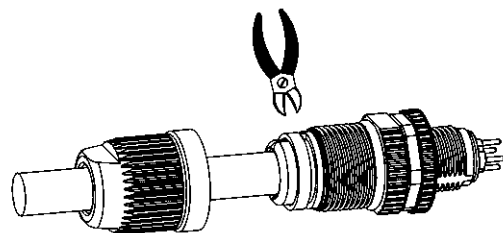
2. Slide screw cap, ring and sealing onto the cable. Push screening braid into the sealing slot.

3.



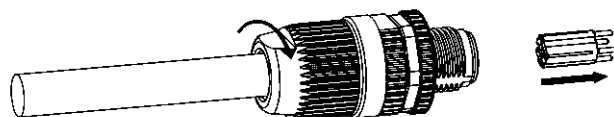
3. Insert contacts into locator from the side. Fix contacts with the aid of assembly aid. Slide locator into connector, pay attention to the coding.

4.



4. Sealing has to be flush with connector. Slide ring over the sealing and cut off screening braid.

5.

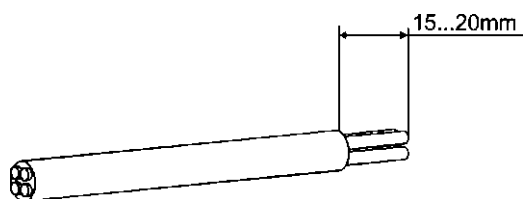


5. Tighten screw cap. Remove assembly aid.

The seal has to be replaced when worn.

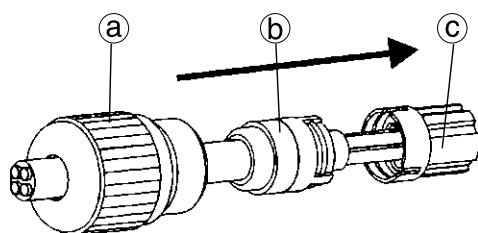
Assembly manual HARAX® Pg 9 panel feed-through

1.



1. Strip cable jacket

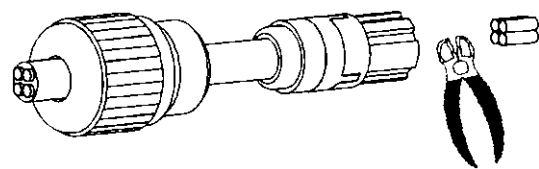
2.



2. Assemble HARAX® elements

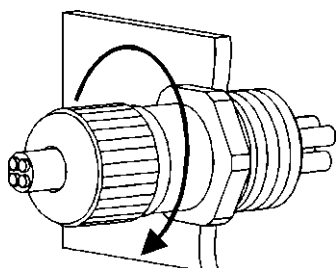
- Ⓐ Nut
- Ⓑ Strain relief
- Ⓒ Insert

3.



3. Cut off cable ends

4.



4. Twist the nut onto the insert until a stop is noticeable

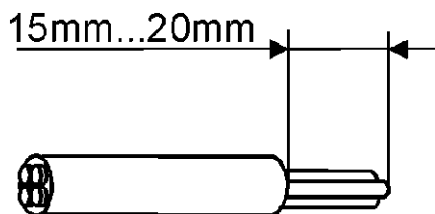
Note!

For reconnection cut off the used cable ends and repeat steps 1 to 4.

The seal has to be replaced when worn.

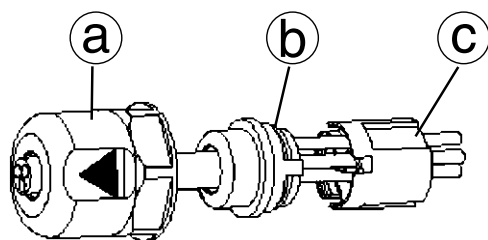
Assembly manual HARAX® Pg 13.5 / M20 panel feed-through

1.



1. Connection and disconnection of the cable must only be performed by suitably qualified persons when supply is isolated.

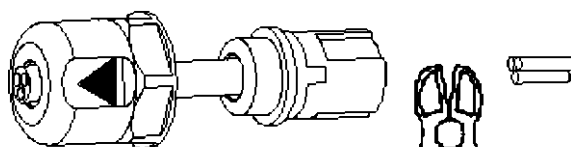
2.



2. HARAX® Pg 13.5 – 3 contacts – is supplied with either faston blades or solder terminals.

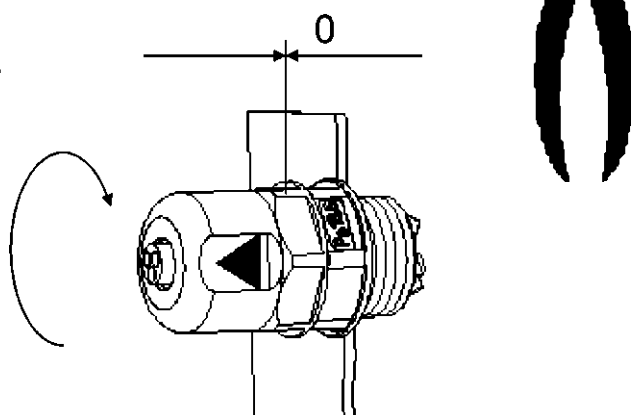
- (a) Nut
- (b) Strain relief
- (c) Insert

3.



3. HARAX® Pg 13.5 / M20 – 4 contacts – is supplied only with solder termination.

4.



4. The nut must be tightened completely down so that the notches engage on the contact carrier.

The opening of the gland always requires a wrench.

Note: For reconnection cut off the used cable ends and repeat steps 1 to 4.



Part No.				
Identification	Male	Female	Drawing	Dimensions in mm
HARAX® M8-S				
straight version, 3 poles for 0,14 - 0,34 mm ²	21 02 151 1305			
straight version, 4 poles for 0,14 - 0,34 mm ²	21 02 151 1405			
straight version, 3 poles for 0.08 - 0.14 mm ²	21 02 159 1305			
straight version, 3 poles for 0,14 - 0,34 mm ²		21 02 151 2305		
straight version, 4 poles for 0,14 - 0,34 mm ²		21 02 151 2405		
			View mating side: 3 poles, male version	View mating side: 4 poles, male version



System cables with
Han® M8 Circular connector

Technical characteristics

Han® M8 Circular connector, without PE

Rated voltage	max. 60 V AC/DC
Rated current/contact	max. 4 A
Locking	Screw locking M8x1, self securing
Recommended torque	0.4 Nm
Temperature range (dependant on connected conductor)	-25 °C ... +85 °C
Degree of protection	IP 67
Number of wires / wire gauge	3 x 0.25 mm ²
Conductor insulation	PP (br, bl, sw)
Arrangement of insulated strands	32 x 0.1 mm
Sheath	PUR (UL, CSA)
Outer diameter	appr. 4.1 mm
Bending radius	10 x outer diameter
Temperature range (working and storage)	-5 °C ... + 80 °C



Identification

Part No.

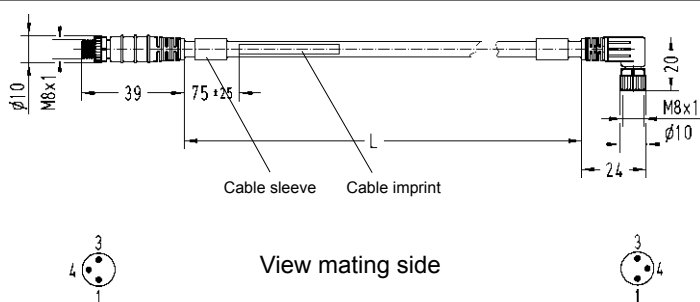
Drawing

Dimensions in mm

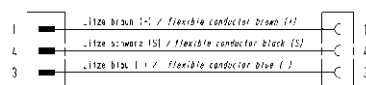
Han® M8 Circular connector Female angled, Male straight

Length: 0.3 m
0.6 m
1.0 m
1.5 m
2.0 m

21 02 454 5301
21 02 454 5302
21 02 454 5303
21 02 454 5304
21 02 454 5305



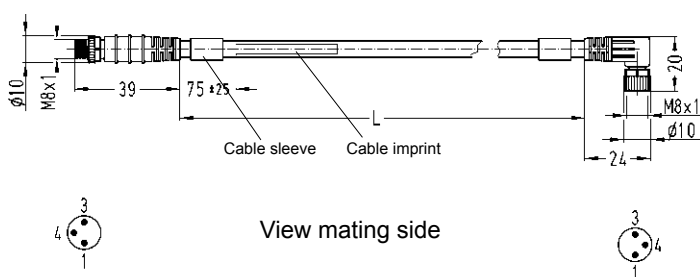
Schematic diagram



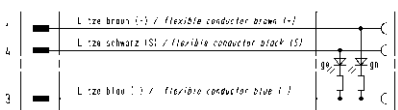
Han® M8 Circular connector Female angled, with LED Male straight

Length: 0.3 m
0.6 m
1.0 m
1.5 m
2.0 m

21 02 454 7301
21 02 454 7302
21 02 454 7303
21 02 454 7304
21 02 454 7305

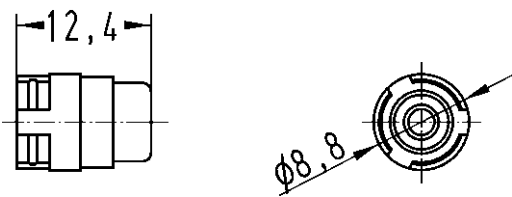


Schematic diagram

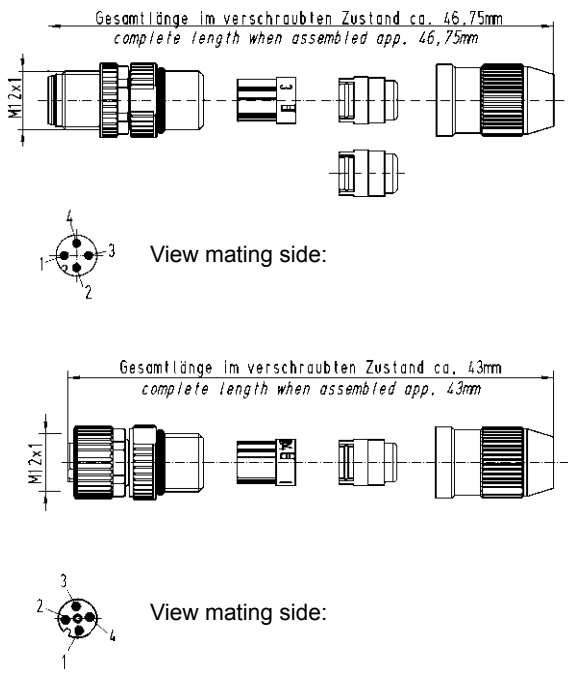
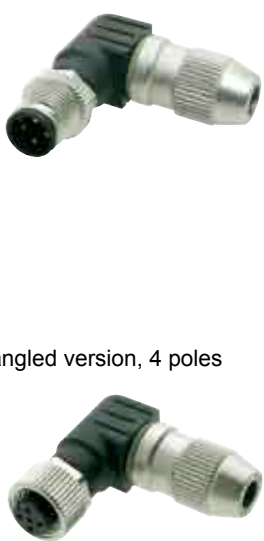
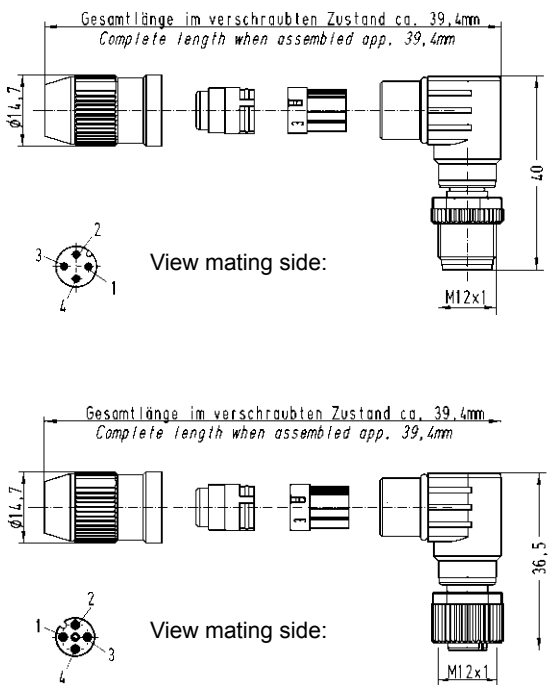


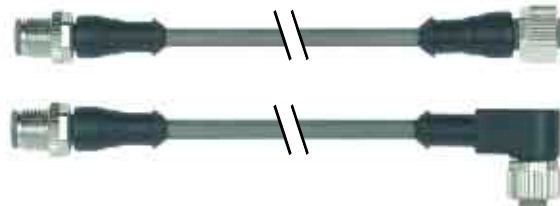
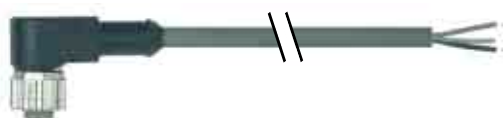


Identification	Part No.	Drawing	Dimensions in mm
Han® M8 Circular connector Female angled pre-assembled on one end Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 02 554 4301 21 02 554 4302 21 02 554 4303 21 02 554 4304 21 02 554 4305	 Schematic diagram View mating side 	
Han® M8 Circular connector Female angled, with LED pre-assembled on one end Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 02 554 7301 21 02 554 7302 21 02 554 7303 21 02 554 7304 21 02 554 7305	 Schematic diagram View mating side 	
HARAX® M8 cable-Set without LED Delivery range: Han® M8 connector with individually adaptable cable and HARAX® M8-S Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 82 554 4301 21 82 554 4302 21 82 554 4303 21 82 554 4304 21 82 554 4305	 View mating side 	
HARAX® M8 cable-Set with LED Delivery range: Han® M8 connector with individually adaptable cable and HARAX® M8-S Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 82 554 7301 21 82 554 7302 21 82 554 7303 21 82 554 7304 21 82 554 7305	 View mating side 	

Identification		Part No.	Drawing	Dimensions in mm
Seal M8 for 2.5 - 3.5 mm cable Ø for 3.2 - 4.4 mm cable Ø for 4.2 - 5.4 mm cable Ø		21 01 010 2008 21 01 010 2004 21 01 010 2005		
Set of 3 seals for HARAX® M8-S for 2.5 - 3.2 mm cable Ø for 3.2 - 4.0 mm cable Ø for 4.0 - 5.1 mm cable Ø		21 01 010 2013		
Han® M8 dynamometric screwdriver	SW 9	09 99 000 0380		



Identification		Part No.		Drawing	Dimensions in mm
Male	Female				
HARAX® M12-S straight version, 4 poles 		21 03 111 1405	21 03 111 2405		
HARAX® M12 angled version, 4 poles 		21 01 140 5081	21 01 140 5091		



System cables with
Han® M12 Circular connector, A-coded

Technical characteristics

Han® M12 Circular connector, without PE

Rated voltage	max. 250 V AC/DC, max. 30 V DC (with LED)
Rated current/contact	max. 4 A
Locking	Screw locking M12x1, self securing
Recommended torque	0.6 Nm
Temperature range (dependant on connected conductor)	- 25 °C ... +85 °C
Degree of protection	IP 67
Number of wires / wire gauge	4 x 0.34 mm ²
Conductor insulation	PP (br, ws, bl, sw)
Arrangement of insulated strands	42 x 0.1 mm
Sheath	PUR (UL, CSA)
Outer diameter	appr. 4.7 mm
Bending radius	10 x outer diameter
Temperature range (working and storage)	-25 °C ... + 80 °C

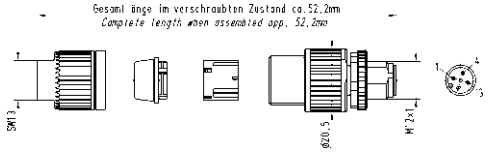
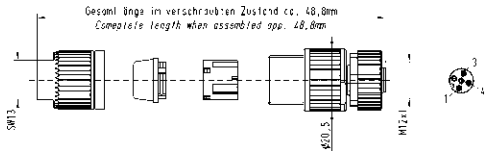
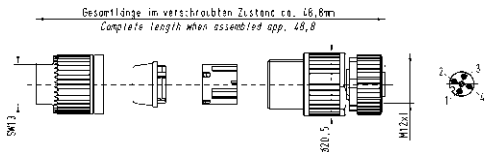
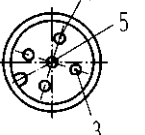
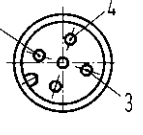
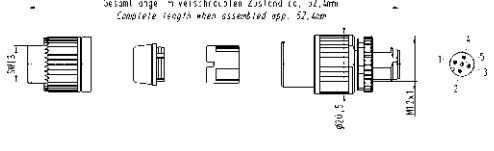
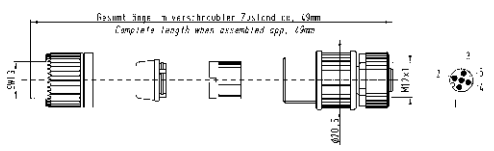


Identification	Part No.	Drawing	Dimensions in mm
Han® M12 Circular connector Female straight, Male straight Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m	21 03 415 2401 21 03 415 2402 21 03 415 2403 21 03 415 2404 21 03 415 2405	View mating side Schematic diagram	
Han® M12 Circular connector Female angled, Male straight Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m	21 03 415 5401 21 03 415 5402 21 03 415 5403 21 03 415 5404 21 03 415 5405	View mating side Schematic diagram	
Han® M12 Circular connector Female angled, with LED, Male straight Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m	21 03 415 7401 21 03 415 7402 21 03 415 7403 21 03 415 7404 21 03 415 7405	View mating side Schematic diagram	



Identification	Part No.	Drawing	Dimensions in mm
Han® M12 Circular connector Female angled pre-assembled on one end Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 03 515 4401 21 03 515 4402 21 03 515 4403 21 03 515 4404 21 03 515 4405	 Schematic diagram 1 Litze braun (+) / flexible conductor brown (+) 2 Litze weiss (0) / flexible conductor white (0) 4 Litze schwarz (S) / flexible conductor black (S) 3 Litze blau I-I / flexible conductor blue I-I	View mating side
Han® M12 Circular connector Female angled, with LED pre-assembled on one end Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 03 515 7401 21 03 515 7402 21 03 515 7403 21 03 515 7404 21 03 515 7405	 Schematic diagram 1 Litze braun I-I / flexible conductor brown I-I 2 Litze weiss (0) / flexible conductor white (0) 4 Litze schwarz (IS) / flexible conductor black (IS) 3 Litze blau I-I / flexible conductor blue I-I	View mating side
HARAX® M12 cable-Set without LED Delivery range: Han® M12 connector with individually adaptable cable and HARAX® M12-S Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 83 515 4401 21 83 515 4402 21 83 515 4403 21 83 515 4404 21 83 515 4405	 HARAX® M12-S (21 03 111 1405) c.a. 43, 45	View mating side
HARAX® M12 cable-Set with LED Delivery range: Han® M12 connector with individually adaptable cable and HARAX® M12-S Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 83 515 7401 21 83 515 7402 21 83 515 7403 21 83 515 7404 21 83 515 7405	 HARAX® M12-S (21 03 111 1405) c.a. 43, 45	View mating side

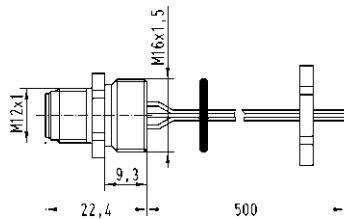
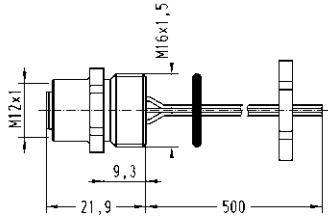
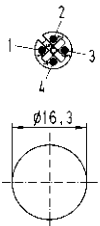
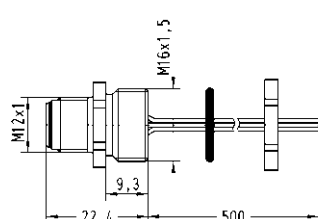
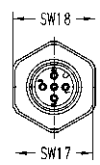
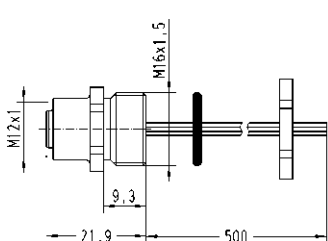


Identification	Part No.		Drawing	Dimensions in mm
	Male	Female		
HARAX® M12-L 3 poles, A-coded, with pre-leading contact (assignment 3, 4, 5) 3 poles, A-coded (assignment 1, 3, 4) 4 poles, A-coded (assignment 1, 2, 3, 4) 4 poles, A-coded, to 2.6 mm core diameter (assignment 1, 2, 3, 4)  3 poles, A-coded (assignment 3, 4, 5) 3 poles, A-coded (assignment 1, 3, 4) 4 poles, A-coded (assignment 1, 2, 3, 4) 4 poles, A-coded, to 2.6 mm core diameter (assignment 1, 2, 3, 4)  5 poles, A-coded, 0.25 - 0.34 mm², AWG 24 - 22 Cable diameter: 4.7 - 6 mm  5 poles, A-coded, 0.34 - 0.5 mm², AWG 22 - 20 Cable diameter: 6 - 8 mm 	21 03 212 1400 21 03 212 1306 21 03 212 1305 21 03 212 1407	21 03 212 2400 21 03 212 2306 21 03 212 2305 21 03 212 2407	    View mating side, male version: HARAX® M12-L 3 poles with pre-leading contact 3 poles  4 poles   	



Technical characteristics: Han® M12 panel feed-through

Degree of protection	IP 67 when mated and screwed
Rated current	max. 4 A (each contact)
Rated voltage	50 V
Mating cycles	max. 100
Limiting temperature	-25 °C ... +85 °C

Identification	Part No.	Drawing	Dimensions in mm
Han® M12 panel feed-through Male, A-coded, 50 cm conductors, 0.5 mm ² 	21 03 311 1402		
Han® M12 panel feed-through Female, A-coded, 50 cm conductors, 0.5 mm ² 	21 03 311 2400		
Han® M12 panel feed-through Male, A-coded, 50 cm conductors, 0.5 mm ² , 5 poles 	21 03 311 1501		
Han® M12 panel feed-through Female, A-coded, 50 cm conductors, 0.5 mm ² , 5 poles 	21 03 311 2501		

Identification		Part No.	Drawing	Dimensions in mm
Seal M12 2.9 - 4.0 mm 4 - 5.1 mm		21 01 010 2011 21 01 010 2001		
Seal M12-L 3 poles: 5.5 - 7.2 mm 4 + 5 poles: 6 - 8 mm		21 01 010 2003 21 01 010 2007		
Cap M12		21 01 000 0003		
Han® M8 dynamometric screwdriver		for M12-S SW 13 09 99 000 0382 for M12-L SW 17 09 99 000 0384		

Circular connector M12 shielded, A-coded



Part No.

Identification

Male

Female

Drawing

Dimensions in mm

HARAX® M12-L, screened version

4 poles, A-coded
0.14 - 0.34 mm² / AWG 26 - 22

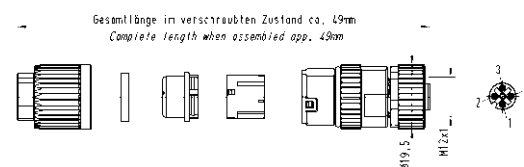
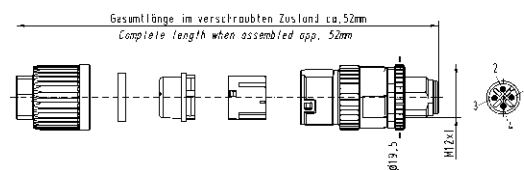


21 03 221 1405

4 poles, A-coded
0.14 - 0.34 mm² / AWG 26 - 22

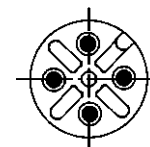


21 03 221 2405



View mating side, male version:
HARAX® M12-L, screened version

4 poles
A-coded



HARAX® panel feed-through

4 poles, A-coded
0.14 - 0.34 mm² / AWG 26 - 22
5.5 - 7.2 mm



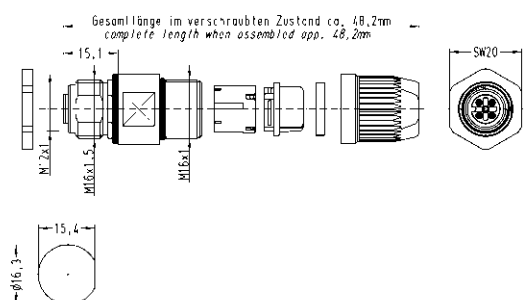
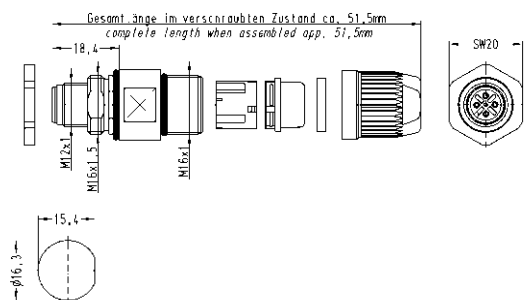
21 03 321 1425

4 poles, A-coded
0.14 - 0.34 mm² / AWG 26 - 22

5.5 - 7.2 mm



21 03 321 2425



Circular connector M12 shielded, A-coded



Part No.				
Identification	Male	Female	Drawing	Dimensions in mm
Han® M12 Crimp 4 poles, A-coded 4.5 - 5.4 mm / 7 - 8.8 mm	21 03 812 1405			
4 poles, A-coded 4.5 - 5.4 mm / 7 - 8.8 mm	21 03 812 2405			
Han® M12 panel feed-through Crimp 4 poles, A-coded 5.5 - 7.2 / 7 - 8.8 mm	21 03 822 1425			
4 poles, A-coded 5.5 - 7.2 / 7 - 8.8 mm	21 03 822 2425			

Circular connector M12 shielded, B-coded



Part No.

Identification

Male

Female

Drawing

Dimensions in mm

HARAX® M12-L, screened version

2 poles, B-coded
2 poles and shield, B-coded

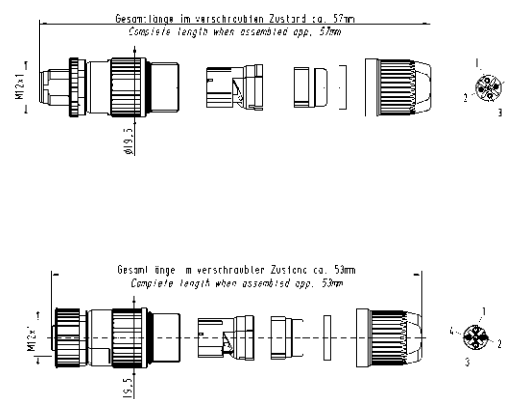


2 poles, B-coded
2 poles and shield, B-coded

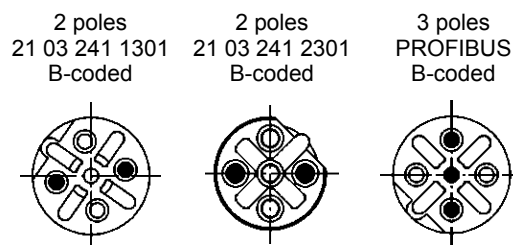


21 03 241 1301
21 03 241 1300

21 03 241 2301
21 03 241 2300



View mating side, male version:
HARAX® M12-L, screened version



HARAX® panel feed-through

2 poles and shield, B-coded



5.5 - 7.2 mm

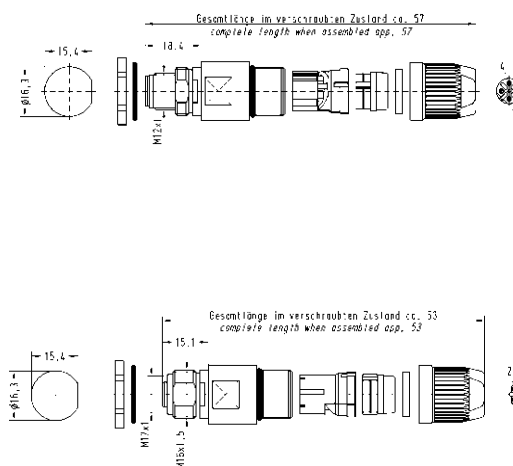
21 03 341 1425

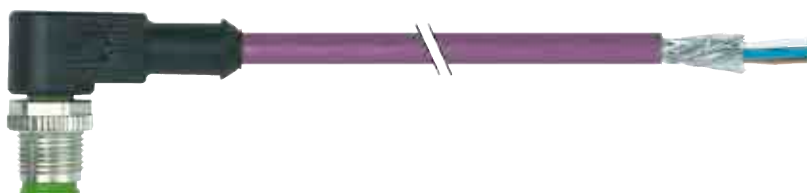
2 poles and shield, B-coded



5.5 - 7.2 mm

21 03 341 2425

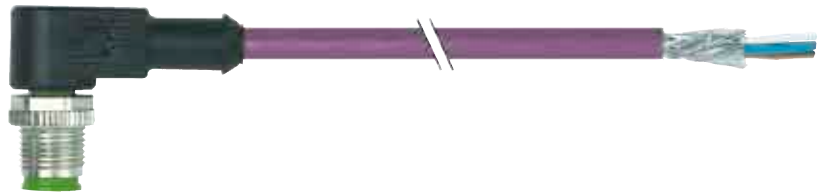




Technical characteristics

Rated voltage	max. 125 V AC/ DC
Rated current/contact	max. 4 A
Locking	Screw locking M12 x 1 mm, self securing
Recommended torque	0.6 Nm
Temperature range (male) °C	-25 °C ... +85 °C (dependant on connected conductor)
Degree of protection	IP 67
Number of wires / wire gauge	4 x 0.64 mm ²
Conductor insulation	PUR (rt, gn)
Arrangement of insulated strands	19 x 0.13 mm
Sheath	PUR (UL/CSA)
Outer diameter	appr. 7.8 mm
Bending radius	65 x outer diameter
Temperature range °C (applicate with fixed cable)	-30 °C ... + 80 °C

Identification	Part No.	Drawing
Han® M12 Circular connector, Male, straight pre-assembled on one end, useable as trailing cable Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 03 549 1301 21 03 549 1302 21 03 549 1303 21 03 549 1304 21 03 549 1305	Schematic diagram 2 green 4 red shielding
Han® M12 Circular connector, Male, angled pre-assembled on one end, useable as trailing cable Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	21 03 549 3301 21 03 549 3302 21 03 549 3303 21 03 549 3304 21 03 549 3305	Schematic diagram 2 green 4 red shielding



Identification

Part No.

Drawing

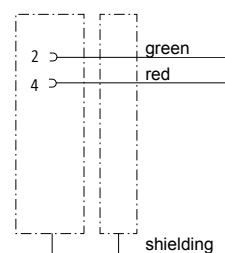
Han® M12 Circular connector, Female, straight

pre-assembled on one end,
useable as trailing cable

Length: 1.5 m
3.0 m
5.0 m
7.5 m
10.0 m

21 03 549 2301
21 03 549 2302
21 03 549 2303
21 03 549 2304
21 03 549 2305

Schematic diagram



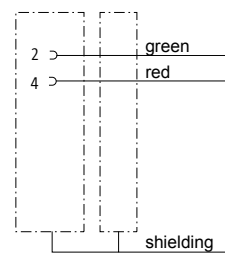
Han® M12 Circular connector, Female, angled

pre-assembled on one end,
useable as trailing cable

Length: 1.5 m
3.0 m
5.0 m
7.5 m
10.0 m

21 03 549 4301
21 03 549 4302
21 03 549 4303
21 03 549 4304
21 03 549 4305

Schematic diagram



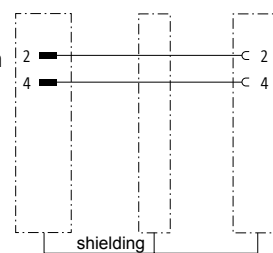
Han® M12 Circular connector, Male, straight Female, straight

pre-assembled on one end,
useable as trailing cable

Length: 0.3 m
0.6 m
1.0 m
1.5 m
2.0 m

21 03 449 4301
21 03 449 4302
21 03 449 4303
21 03 449 4304
21 03 449 4305

Schematic diagram



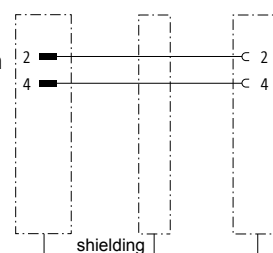
Han® M12 Circular connector, Male, angled Female, angled

pre-assembled on one end,
useable as trailing cable

Length: 0.3 m
0.6 m
1.0 m
1.5 m
2.0 m

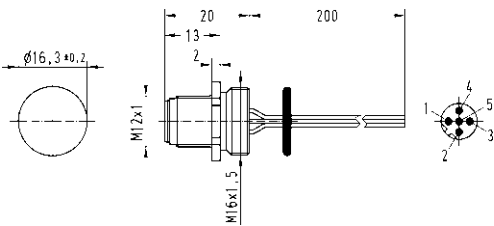
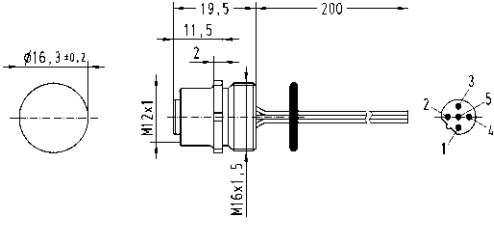
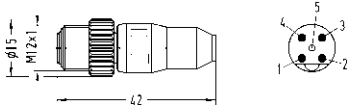
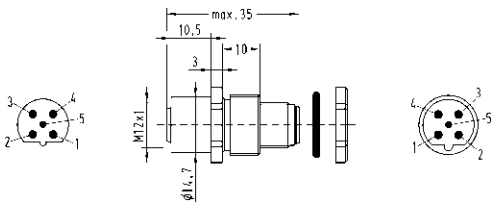
21 03 449 6301
21 03 449 6302
21 03 449 6303
21 03 449 6304
21 03 449 6305

Schematic diagram



Technical characteristics: Han® M12 panel feed-through

Degree of protection	IP 67 in locked position
Rated current	max. 4 A (each contact)
Rated voltage	250 V AC/DC
Mating cycles	max. 100
Limiting temperatures	-25 °C ... +85 °C
Termination	solder, with pigtails (TPE insulation) assembled

Identification	Part No.		Drawing	Dimensions in mm
	Male	Female		
Han® M12-panel feed-through Male, B-coded, 20 cm conductor, 0.25 mm ² 	21 03 339 1301			
Han® M12-panel feed-through Female, B-coded, 20 cm conductor, 0.25 mm ² 		21 03 339 2301		
Han® M12-male moving load B-coded 	21 03 030 1300			
Han® M12-male/female panel feed-through B-coded 	21 03 330 1300		 Rated voltage 24 V AC/DC Thread M16 x 1,5	

Circular connector M12 shielded, D-coded



Part No.

Identification

Male

Female

Drawing

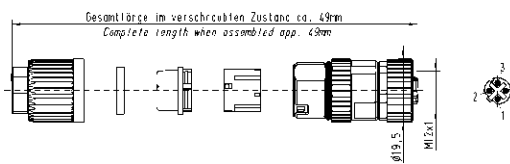
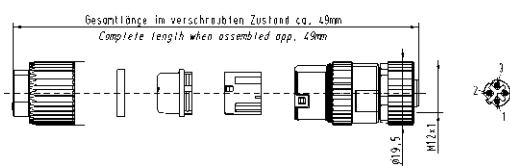
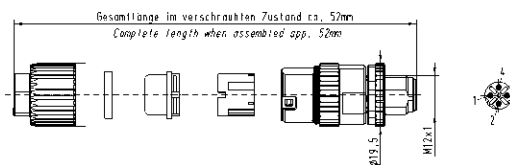
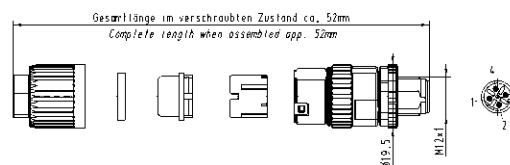
Dimensions in mm

HARAX® M12-L,
screened version

4 poles, D-coded,
0.14 - 0.34 mm², AWG 26-22
0.34 - 0.5 mm², AWG 22-20

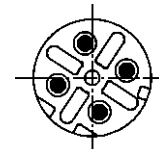


21 03 281 1405
21 03 282 1405



View mating side, male version:
HARAX® M12-L, screened version

4 poles
Ethernet
D-coded

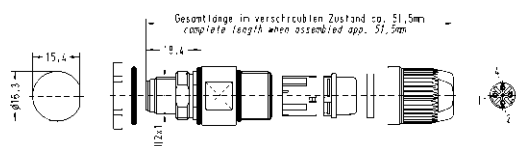


HARAX® panel feed-through
D-coded



5.5 - 7.2 mm

21 03 381 1425

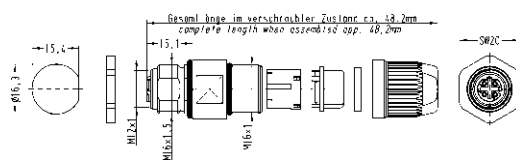


D-coded



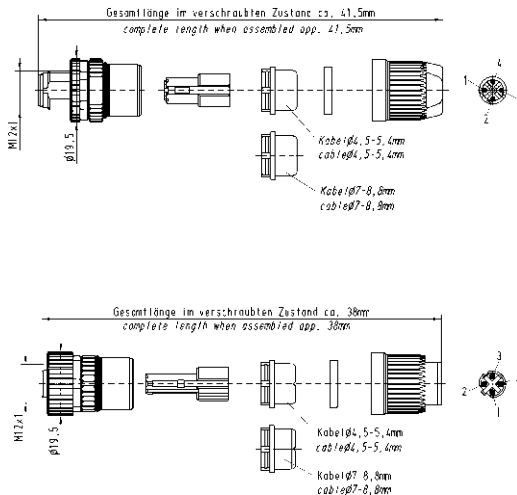
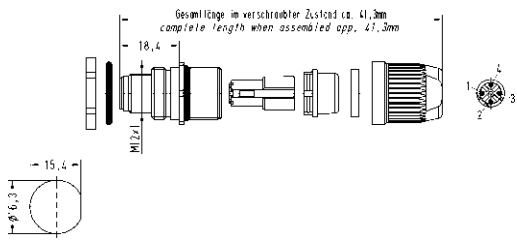
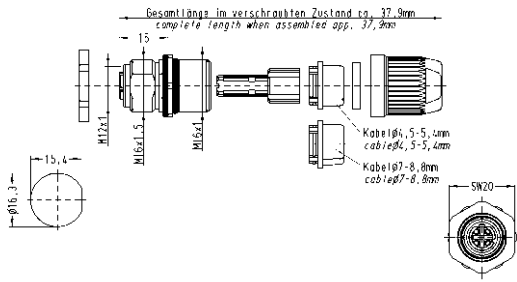
5.5 - 7.2 mm

21 03 381 2425



Circular connector M12 shielded, D-coded



Identification	Male	Part No.	Female	Drawing	Dimensions in mm
Han® M12 Crimp D-coded 5.5 - 7.2 mm / 7 - 8.8 mm  		21 03 882 1405			
Han® M12 panel feed-through Crimp D-coded 5.5 - 7.2 / 7 - 8.8 mm 		21 03 882 1425			
Han® M12 panel feed-through Crimp D-coded 5.5 - 7.2 / 7 - 8.8 mm 		21 03 882 2425			



Technical characteristics

Pre-assembled and tested system cables
for structured cabling of industrial Ethernet networks, based on Han® M12 Circular connectors, D-coded

Cable type: Shielded Twisted Pair Standard Cable

Mating interface: M12 D-coded acc. to IEC 61 076-2-101

Transmission performance acc. to ISO/IEC 11801:2002: Class D, 100% tested

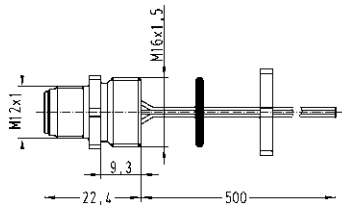
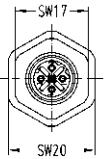
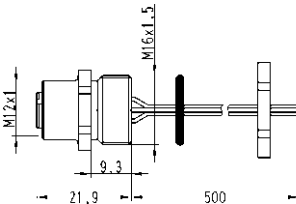
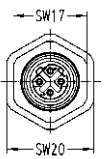
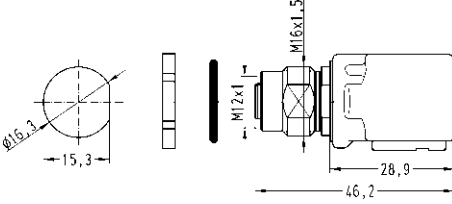
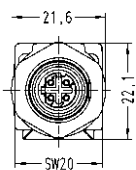
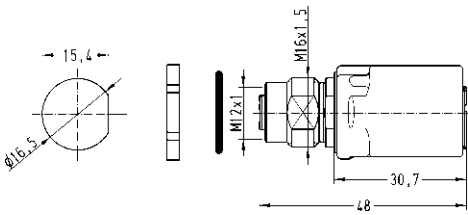
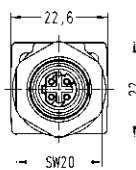
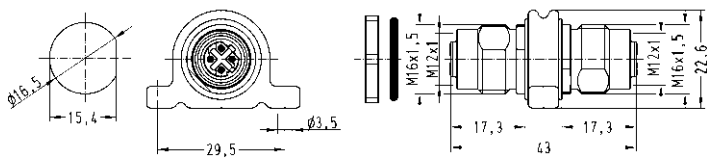
Degree of protection IP 65 / IP 67 (when mated)

Pin assignment

Signal	Function	Conductor colour PROFINet®	Conductor colour EIA/TIA 568B	Contact assign- ment
TD+	Transmission Data+	Yellow	White/ Orange	1
TD-	Transmission Data-	Orange	Orange	3
RD+	Receiver Data+	White	White/Green	2
RD-	Receiver Data-	Blue	Green	4



Identification	Part No.	Drawing	Dimensions in mm
2 x Han® M12 Circular connector, D-coded, straight Length: 1 m 3 m 5 m 10 m 15 m 25 m 40 m other length on request	21 03 483 1401 21 03 483 1403 21 03 483 1405 21 03 483 1410 21 03 483 1415 21 03 483 1425 21 03 483 1440	cable: AWG 26 / 0.14 mm ² 	
2 x Han® M12 Circular connector, D-coded, straight Length: 1 m 3 m 5 m 10 m 15 m 25 m 40 m other length on request	21 03 485 1401 21 03 485 1403 21 03 485 1405 21 03 485 1410 21 03 485 1415 21 03 485 1425 21 03 485 1440	cable: AWG 22 / 0.34 mm ² 	
1 x Han® M12 Circular connector, D-coded, straight Length: 1 m 3 m 5 m 10 m 25 m 40 m other length on request	21 03 583 1401 21 03 583 1403 21 03 583 1405 21 03 583 1410 21 03 583 1425 21 03 583 1440	cable: AWG 26 / 0.14 mm ² 	
1 x Han® M12 Circular connector, D-coded, straight Length: 1 m 3 m 5 m 10 m 25 m 40 m other length on request	21 03 585 1401 21 03 585 1403 21 03 585 1405 21 03 585 1410 21 03 585 1425 21 03 585 1440	cable: AWG 22 / 0.34 mm ² 	

Identification	Part No.	Drawing	Dimensions in mm
Han® M12 panel feed-through Male, D-coded, 50 cm conductors, AWG 22, 4 poles 	21 03 371 1403		
Han® M12 panel feed-through Female, D-coded, 50 cm conductors, AWG 22, 4 poles 	21 03 371 2403		
Han® M12-RJ45 panel feed-through 4 poles, D-coded, angled 	21 03 381 4400		
Han® M12-RJ45 panel feed-through 4 poles, D-coded, straight 	21 03 381 2400		
Han® M12 Gender Changer 4 poles, D-coded 	21 03 381 6405		

Identification

Part No.

Technical characteristics

Crimping tool

09 99 000 0501



Locator

61 03 600 0023



Single contacts

turned male contacts*
AWG 22-20 / 0.33-0.52
AWG 26-22 / 0.13-0.33

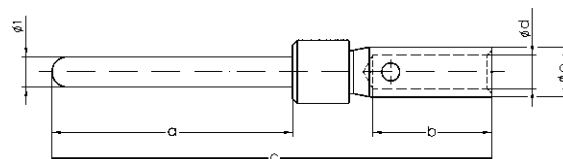


61 03 000 0073
61 03 000 0094

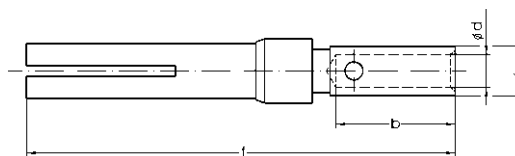
turned female contacts*
AWG 22-20 / 0.33-0.52
AWG 26-22 / 0.13-0.33



61 03 000 0074
61 03 000 0096



	a	b	c	d	e	f
AWG 22-20	8.10	4.0	14.8	1.12	1.66	14.4
AWG 26-22	8.10	4.0	14.8	0.90	1.66	14.4





Identification

Part No.

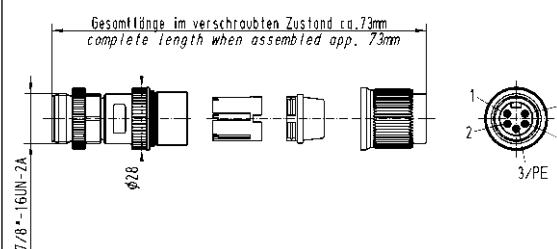
Drawing

Dimensions in mm

HARAX® 7/8" Male



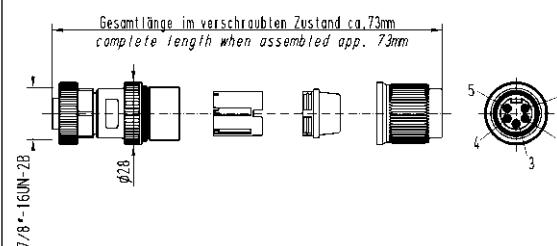
21 04 116 1505

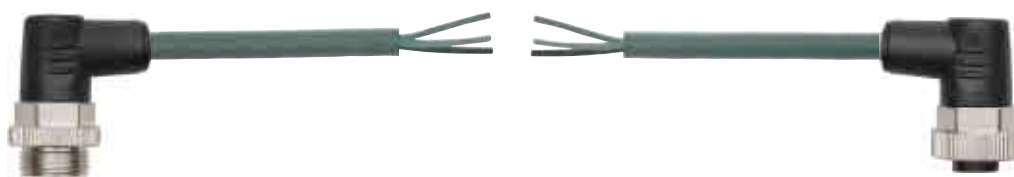


HARAX® 7/8" Female



21 04 116 2505





Overmolded cordsets 7/8"

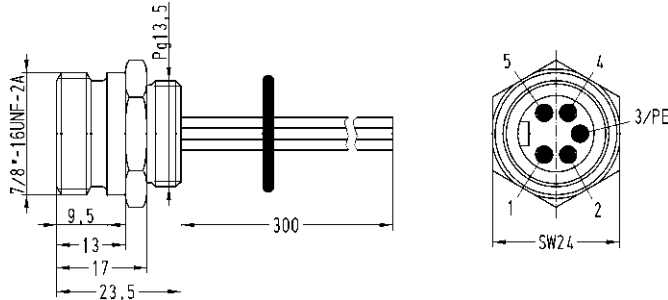
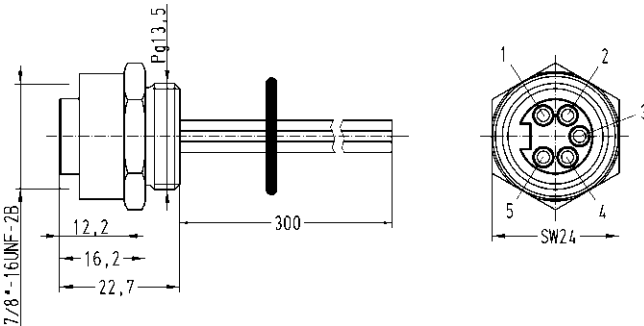
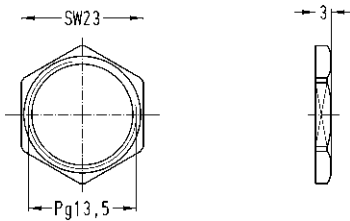
Technical characteristics

Degree of protection	IP 67
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



Overmolded cordsets 7/8"

Identification	Part No.	Drawing	Dimensions in mm
Overmolded cordsets 7/8" Female straight 5 pin 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	
Overmolded cordsets 7/8" Female angled 5 pin 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	
Overmolded cordsets 7/8" Male-Female straight 5 pin 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	
Overmolded cordsets 7/8" Male-Female angled 5 pin 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	

Identification		Part No.	Drawing	Dimensions in mm
Han® 7/8" panel feed-through 30 cm conductors, 0.75 mm², 5 poles 	Male	21 04 316 1505		
	Female	21 04 316 2505		
Lock nut Pg 13.5 nickel plated 		21 01 000 0020		
Han® 7/8" dynamometric screwdriver for 7/8" SW 23		09 99 000 0395		

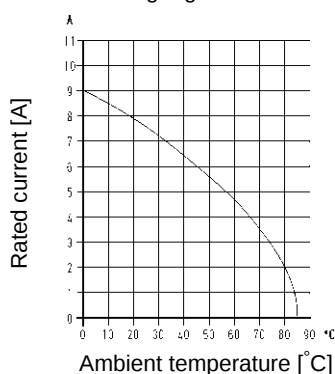
Technical characteristics: Han® M12 pcb

Degree of protection	IP 20
Rated current	max. 4 A (dependant on pcb layout)
Rated voltage	50 V
mating cycles	max. 100
Limiting temperatures	- 25 °C / + 85 °C
Temperature during connection	- 5 °C / + 50 °C

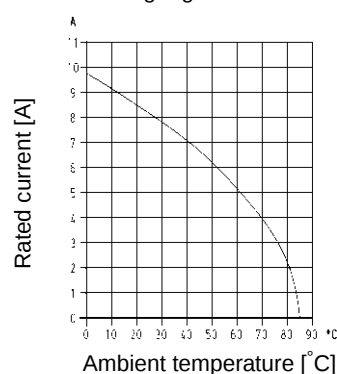
Current carrying capacity The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interruptet current-loaded contacts of connectors when simultaneous power on all contacts is given,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

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

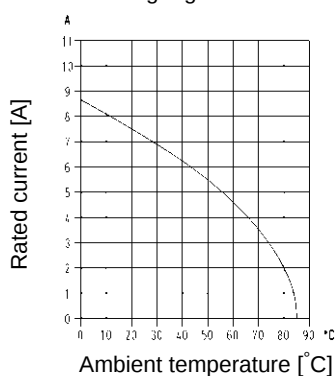
M12, A-Kodierung, straight, male, 4 poles
wire gauge 0.5 mm²



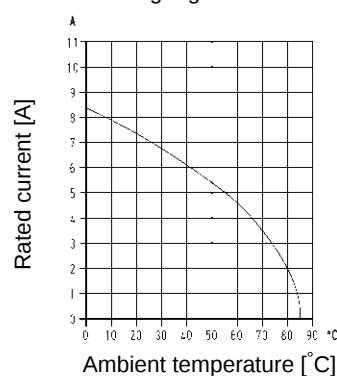
M12, A-Kodierung, straight, female, 4 poles
wire gauge 0.75 mm²



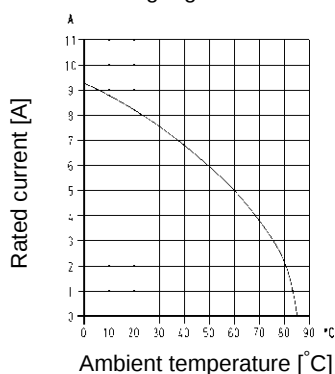
M12, A-Kodierung, straight, female, 5 poles
wire gauge 0.5 mm²



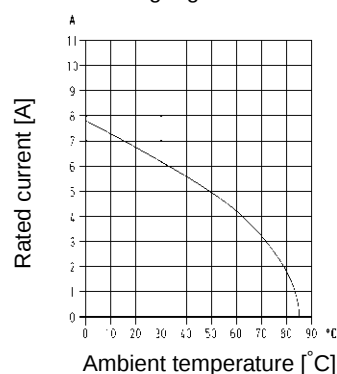
M12, A-Kodierung, straight, male, 5 poles
wire gauge 0.5 mm²



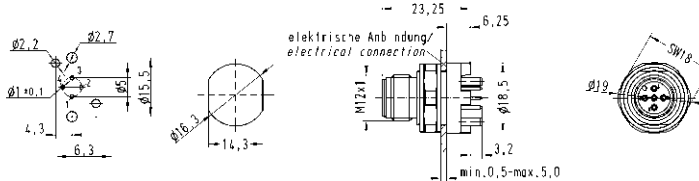
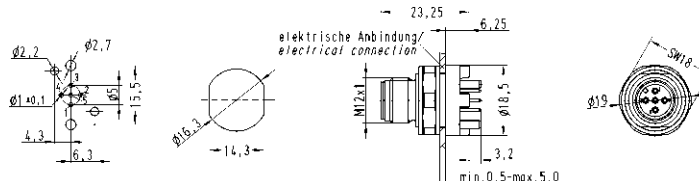
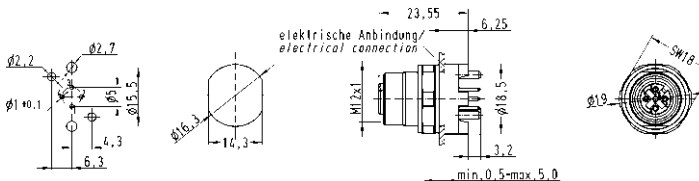
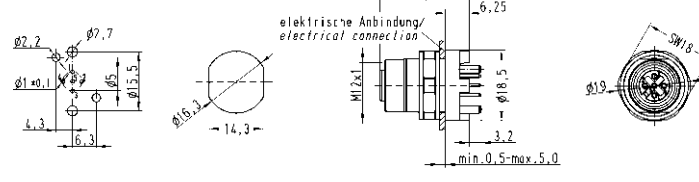
M12, D-Kodierung, straight, female, 4 poles
wire gauge 0.5 mm²



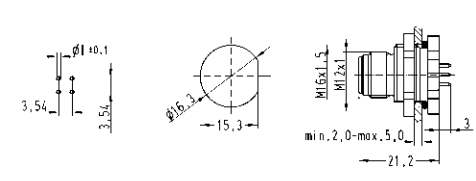
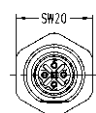
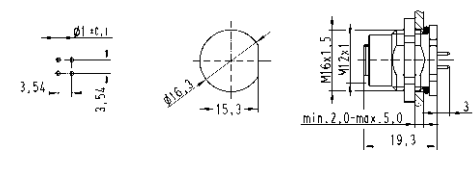
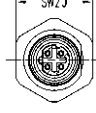
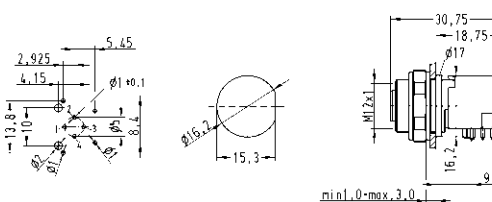
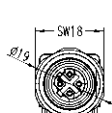
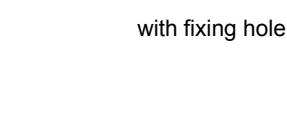
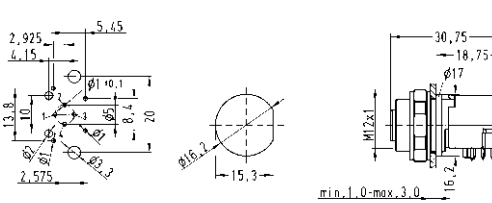
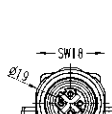
M12, D-Kodierung, gewinkelt, female, 4 poles
wire gauge AWG 22

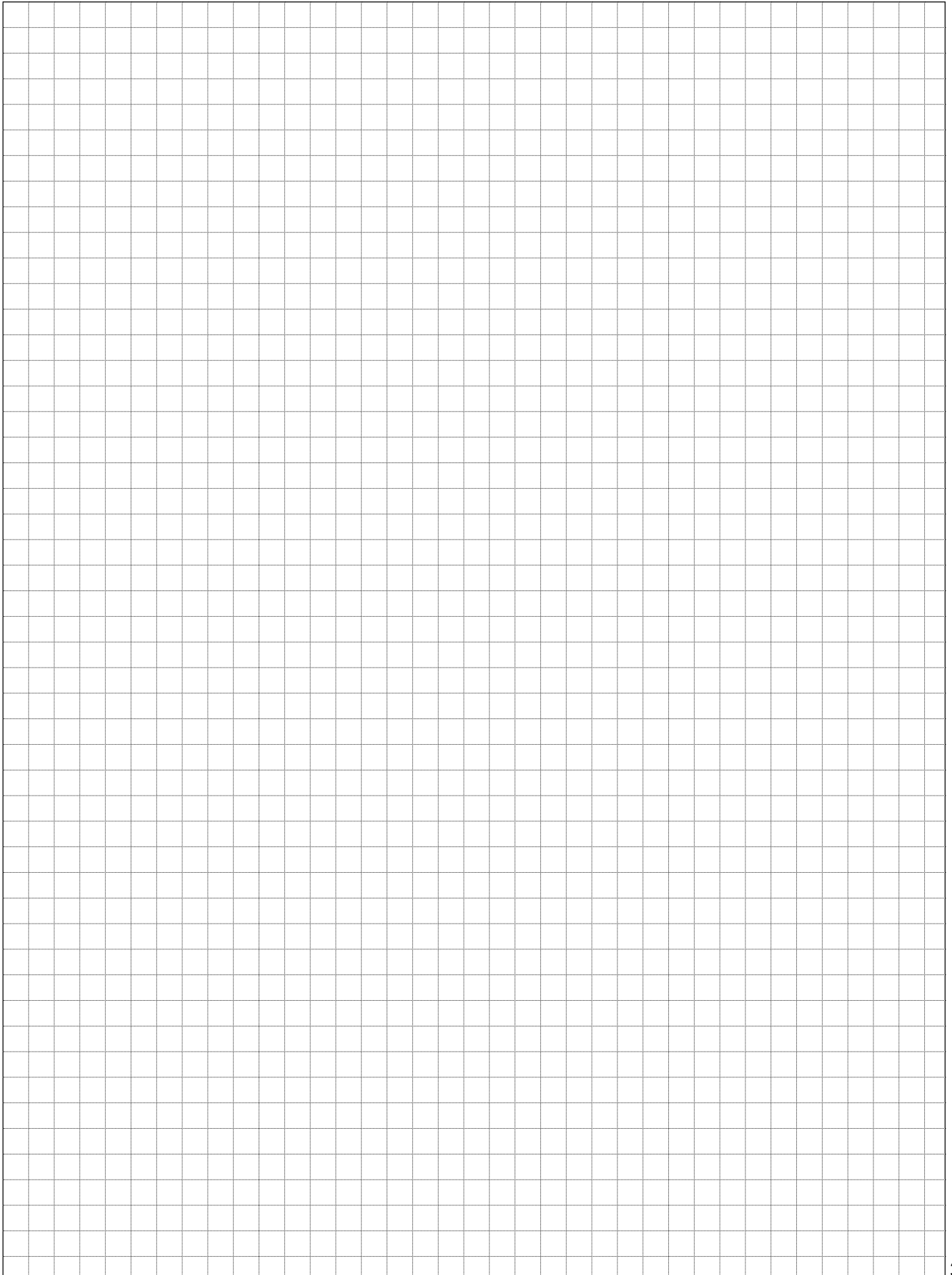




Identification	Part No.	Drawing	Dimensions in mm
Han® M12 Male, A-coded, straight			
	4 poles	21 03 321 1410	
	5 poles	21 03 321 1510	
Han® M12 Female, A-coded, straight			
	4 poles	21 03 321 6410	
	5 poles	21 03 321 6510	



Identification	Part No.	Drawing	Dimensions in mm
Han® M12 Male, D-coded, straight, 4 poles 	21 03 371 1400		
Han® M12 Female, D-coded, straight, 4 poles 	21 03 371 2415		
Han® M12 Female, D-coded, angled, 4 poles without fixing hole 	21 03 381 4410		
Han® M12 Female, D-coded, angled, 4 poles with fixing hole 	21 03 381 4412		





Technical characteristics: HARAX® Pg 9 panel feed-through

Rated voltage	32 V
Rated current	4 A
Wire gauge	0.25 - 0.5 mm ² / 24/7 AWG - 22 AWG
Diameter of individual strands	≥ 0.1 mm
Conductor insulation material	PVC
Conductor diameter	1.2 - 1.6 mm
Cable diameter	4.0 - 5.1 mm
Working temperature	- 25 °C ... + 85 °C
Temperature during connection	- 5 °C ... + 50 °C
Degree of protection	IP 67
Termination cycles with the same cross section	10



Identification	Part No.	Drawing	Dimensions in mm
HARAX® Pg 9 panel feed-through 3 contacts, with pre-assembled 0.5 m / 0.5 mm ² pigtail cable	21 01 130 4241		
HARAX® Pg 9 panel feed-through 4 contacts, with pre-assembled 0.5 m / 0.5 mm ² pigtail cable	21 01 140 4341		
HARAX® Pg 9 panel feed-through 3 contacts with faston blades	21 01 130 4011		
Termination element M12 HARAX® 3 contacts Screw cap, splice ring, seal	21 01 010 0001		
Termination element M12 HARAX® 4 contacts Screw cap, splice ring, seal	21 01 010 0006		

Technical characteristics

Specifications IEC 60352-4
Approval DIN 61984
 VDE

Construction type	Pg 13,5 3 poles	Pg 13,5 / M20 4 poles
Working voltage	250 V 4 kV 3 with faston terminals with insulation cap	230/400 V 4 kV 3
acc. to UL/CSA	600 V	600 V
Working current (see current carrying capacity)	16 A	16 A
Testing voltage	4 kV (1.2/50)	4 kV (1.2/50)
Conductor cross section	0.75 - 1.5 mm ²	0.75 - 1.5 mm ²
Diameter of individual strands	≥ 0.2 mm	≥ 0.2 mm
Outer cable diameter	6.0 - 9.0 mm	6.0 - 9.0 mm
Termination cycles with the same cross section	10	10
Limiting temperature	- 25 / + 85 °C	- 25 / + 85 °C
Temperature during connection	- 5 ... + 50 °C	- 5 ... + 50 °C
Degree of protection	IP 67	IP 67
Conductor insulation material	PVC	PVC
Max. tightening torque	8 Nm	8 Nm

Current carrying capacity

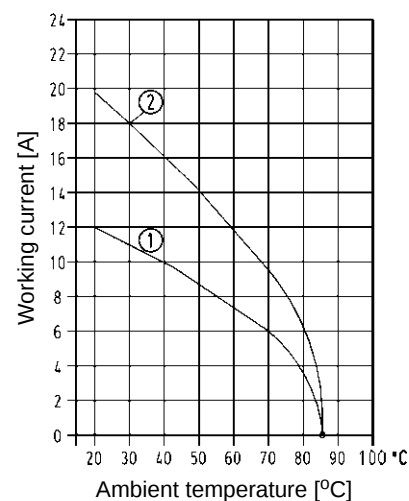
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the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

Control and test procedures according to DIN IEC 60512-3.

Pg 13,5 3 contacts

1 = wire gauge
0.75 mm²

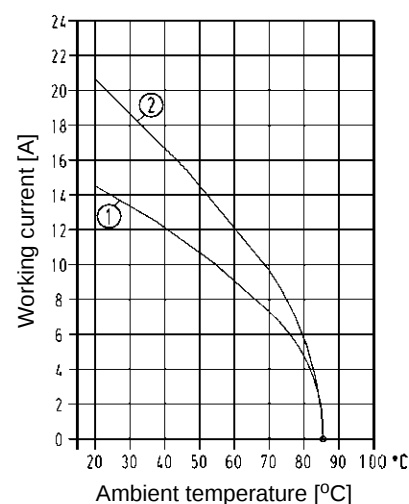
2 = wire gauge
1.5 mm²



Pg 13,5 / M20 4 contacts

1 = wire gauge
0.75 mm²

2 = wire gauge
1.5 mm²





Identification	Part No.	Drawing	Dimensions in mm
HARAX® Pg 13.5 / 3 contacts with faston blades	21 01 130 1013		
HARAX® Pg 13.5 / 3 contacts with solder termination	21 01 130 1023		
HARAX® Pg 13.5 / 3 contacts with pre-assembled pigtail cable, l = 500 mm, 1.5 mm ²	21 01 130 1223		
HARAX® Pg 13.5 / 2 + PE with faston blades	21 01 130 3013		
HARAX® Pg 13.5 / 2 + PE with solder termination	21 01 130 3023		
HARAX® Pg 13.5 / 2 + PE with pre-assembled pigtail cable, l = 500 mm, 1.5 mm ²	21 01 130 3233		
HARAX® Pg 13.5 / 4 contacts with solder termination	21 01 140 1023		
HARAX® Pg 13.5 / 3 + PE with solder termination	21 01 140 3023		
HARAX® Pg 13.5 / 4 contacts with pre-assembled strand, l = 500 mm, 1.5 mm ²	21 01 140 1323		
HARAX® Pg 13.5 / 3 + PE with pre-assembled strand, l = 500 mm, 1.5 mm ²	21 01 140 3333		
HARAX® M20 / 4 contacts with solder termination	21 01 141 1023		
HARAX® M20 / 3 + PE with solder termination	21 01 141 3023		
HARAX® M20 / 4 contacts with pre-assembled strand, l = 500 mm, 1.5 mm ²	21 01 141 1323		
HARAX® M20 / 3 + PE with pre-assembled strand, l = 500 mm, 1.5 mm ²	21 01 141 3333		

Other length on request

Stock items in bold type

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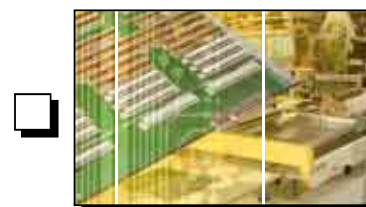
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