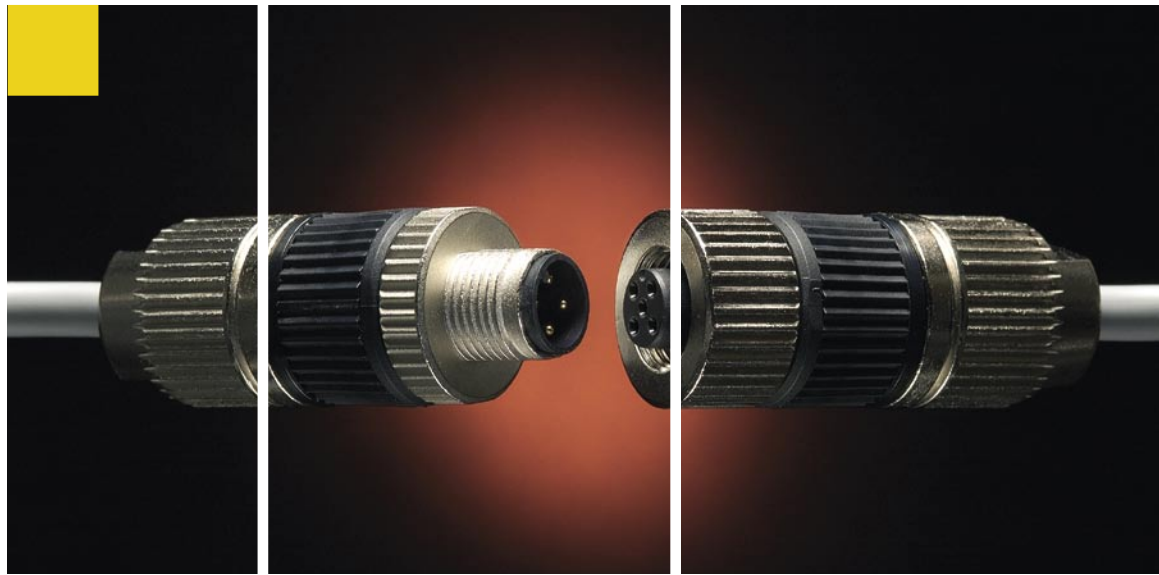


HARTING



System Cabling with Circular Connectors

Han® M8 and M12

HARAX® M8 and M12



People | Power | Partnership



Technical Data: Circular Connectors shielded, D-coded

	M12 / AWG 22	M12 / AWG 26
Working voltage	max. 50 V AC/DC	max. 50 V AC/DC
Working current per contact	max. 4 A	max. 2 A
Locking	Screw locking M12 x 1mm (recom. tightening torque 0.6 Nm) self securing	
Temperature range	- 20°C ... +60°C	- 5°C ... +60°C
Degree of Protection	IP 67	IP 67

Technical Data: System Cabling

	M12 / AWG 22	M12 / AWG 26
Number of wires/ wire gauge	2 x 2 x AWG 22/7	2 x 2 x AWG 26/7
Conductor insulation	Polyethylene (yellow, orange, white, blue) acc. to PROFInet®	Polyethylene (white/orange, orange, white/green, green) according to EIA / TIA 568B
Arrangement of insulated strands	7 x 0.25 mm	7 x 0.16 mm
Jacket	Polyurethane (UL/CSA)	Polyurethane (UL/CSA)
Outer diameter	ca. 6.5 mm	ca. 5.6 mm
Bending radius	10 x outer diameter	10 x outer diameter
Temperature range	- 20°C ... +60°C	- 5°C ... +60°C

System Cabling with
Circular Connectors Han® M12
D-coded, Pre-assembled on both ends



Identification

Part-Number

Drawing

Dimensions in mm

Pre-assembled and tested system cabling

for structured cabling of industrial Ethernet-Networks based on circular connectors, M12 D-coded

Cable type: Shielded Twisted Pair
Stranded wire

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

Transmission properties in accordance with ISO/IEC 11801:2002: Class D, 100% tested

Degree of protection IP 65 / 67 (when mated)

Pin arrangement

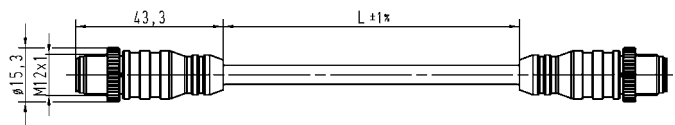
Signal	Function	Conductor Colour PROFInet®	Conductor Colour EIA/TIA 568B	Pin no.
TD+	Transmission Data+	Yellow	White/Orange	1
TD-	Transmission Data-	Orange	Orange	3
RD+	Receiver Data+	White	White/Green	2
RD-	Receiver Data-	Blue	Green	4

**2 x circular connectors
M12 D-coded
straight version**

length: 1 m
3 m
5 m
other lengths
on request

21 03 483 1401
21 03 483 1403
21 03 483 1405

Cable: AWG 26 / 0.14 mm²

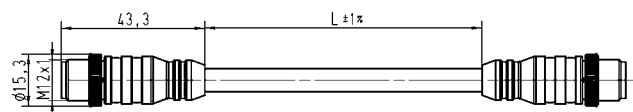


**2 x circular connectors
M12 D-coded
straight version**

length: 1 m
3 m
5 m
other lengths
on request

21 03 485 1401
21 03 485 1403
21 03 485 1405

Cable: AWG 22 / 0.34 mm²



System Cabling with
Circular Connectors Han® M12
D-coded, Pre-assembled on one end



Identification

Part-Number

Drawing

Dimensions in mm

Pre-assembled and tested system cabling

for structured cabling of industrial Ethernet-Networks based on circular connectors, M12 D-coded

Cable type: Shielded Twisted Pair
Stranded wire

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

Transmission properties in accordance with ISO/IEC 11801:2002: Class D, 100% tested

Degree of protection IP 65 / 67 (when mated)

Pin arrangement

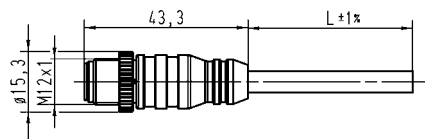
Signal	Function	Conductor Colour PROFInet®	Conductor Colour EIA/TIA 568B	Pin no
TD+	Transmission Data+	Yellow	White/Orange	1
TD-	Transmission Data-	Orange	Orange	3
RD+	Receiver Data+	White	White/Green	2
RD-	Receiver Data-	Blue	Green	4

**1 x circular connector
M12 D-coded
straight version**

length: 1 m
3 m
5 m
other lengths
on request

21 03 583 1401
21 03 583 1403
21 03 583 1405

Cable: AWG 26 / 0.14 mm²

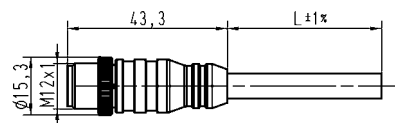


**1 x circular connector
M12 D-coded
straight version**





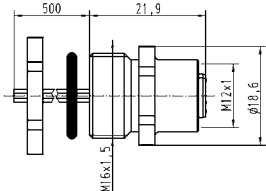
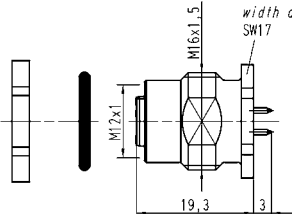
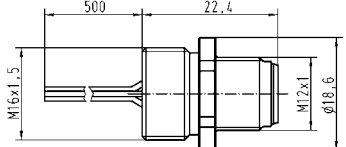
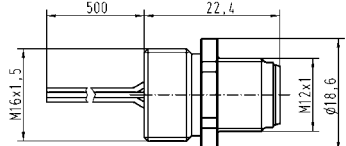

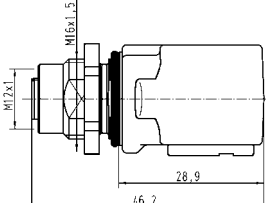
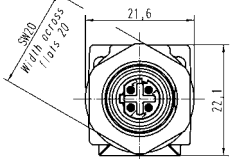

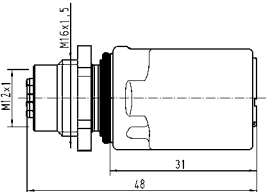
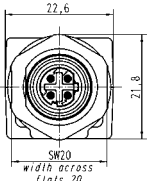
length: 1 m
3 m
5 m
other lengths
on request


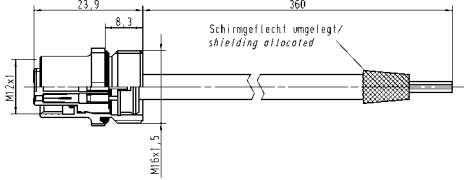

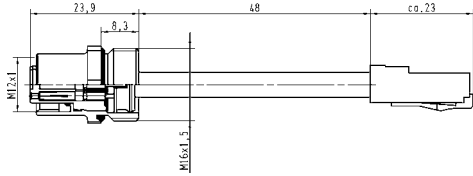

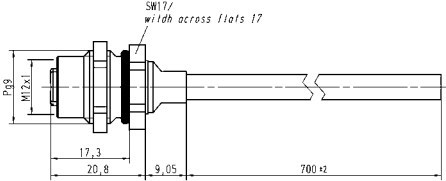

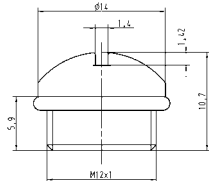
21 03 585 1401
21 03 585 1403
21 03 585 1405

Cable: AWG 22 / 0.34 mm²





Identification	Part-Number	Drawing	Dimensions in mm
<p>M12 panel feed-through female, D-coded, 50 cm flying lead cable, 4 poles</p>  <p>female, D-coded, 4 poles solder terminal, straight version</p>  <p>male, D-coded, 50 cm flying lead cable, 4 poles</p>  <p>male, A-coded, 50 cm flying lead cable, 4 poles</p> 	<p>21 03 371 2403</p> <p>21 03 371 2402</p> <p>21 03 371 1403</p> <p>21 03 311 1402</p>	   	
<p>Adaptor M12-RJ45 angled version, 4 poles</p> 	<p>21 03 381 4400</p>		
<p>Adaptor M12-RJ45 straight version, 4 poles</p>  <p>New!</p>	<p>2103 381 2400</p>		

Identification	Part-Number	Drawing	Dimensions in mm
<p>M12 Panel feed-through for outside assembly</p> <p>female, D-coded, shielded, 360 mm flying lead cable, 4 poles</p> 	<p>21 03 383 6407</p>	 <p>Schirmgeflecht umgelegt/ shielding allocated</p>	
<p>M12 Panel feed-through with RJ45</p> <p>female, D-coded, shielded, 48 mm cable, 4 poles</p> 	<p>21 03 683 6401</p>		
<p>M12 Panel feed-through for inside assembly</p> <p>female, D-coded, shielded, 700 mm flying lead cable, 4 poles</p> 	<p>21 03 383 6405</p>	 <p>SW17/ with access flats 17</p>	
<p>Cap M12</p> 	<p>21 01 000 0003</p>		

Technical Data

Specifications	IEC 60 352-4 IEC 60 947-5-2					
Approval						
Construction type	HARAX® M8-SM12-S	HARAX® M12 angled	HARAX® M12-L	HARAX® M12-L shielded, A-coded	HARAX® M12-L shielded Ethernet Profibus	
Working voltage	32 V	32 V	50 V	32 V	32 V	32 V
Working current (see Derating-Diagram)	4 A	4 A	6 A	4 A	4 A	4 A
Conductor cross section	0.14 - 0.34 mm ² AWG 26 - 22	0.25 - 0.5 mm ² AWG 24/7 - 22	0.34 - 0.75 mm ² AWG 22 - 18	0.25 - 0.34 mm ² AWG 24 - 22	0.25 - 0.34 mm ² AWG 24 - 22	0.25 - 0.34 mm ² AWG 24 - 22
Diameter of individual strands ≥ 0.1 mm		≥ 0.1 mm	≥ 0.1 mm	≥ 0.1 mm	≥ 0.1 mm	≥ 0.1 mm
Conductor insulation material	PVC / PP	PVC	PVC	PVC	PVC	PVC
Conductor diameter	M8-S: 1.0 - 1.6 mm M12-S: 1.0 - 1.6 mm	1.2 - 1.6 mm	1.6 - 2.0 mm	1.2 - 1.6 mm	1.2 - 1.6 mm	2.0 - 2.6 mm
Cable diameter	M8-S: 3.2 - 5.4 mm M12-S: 4 - 5.1 mm	4 - 5.1 mm	5.5 - 8 mm	7 - 8.8 mm	5.5 - 7.2 mm	7 - 8.8 mm
Temperature limits	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C	-25°C ... +85°C
Temperature during termination	-5°C ... +50°C	-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 67	IP 67
Reconnection with the same cable cross section	10 times	10 times	10 times	10 times	10 times	10 times

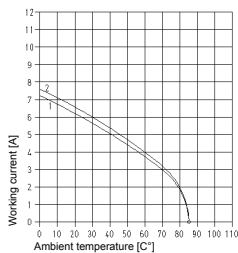
Derating Diagram/ Current Carrying Capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contact 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 in accordance with DIN IEC 60 512-3.

M8-S, 4 poles

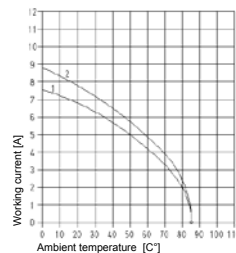
M12-S, 4 poles

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



M12, 4 poles, angled

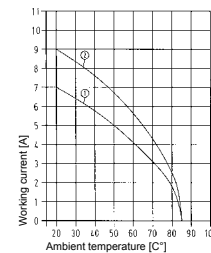
- 1 = wire gauge 0.25 mm²
- 2 = wire gauge 0.5 mm²



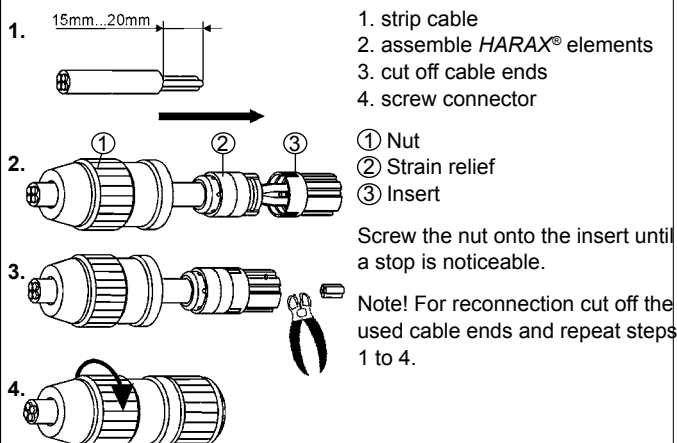
M12-L, 4 poles

M12-L, shielded

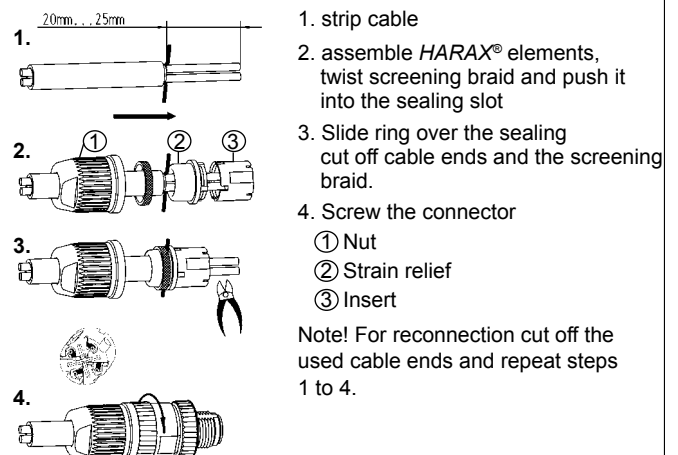
- 1 = wire gauge 0.34 mm²
- 2 = wire gauge 0.75 mm²





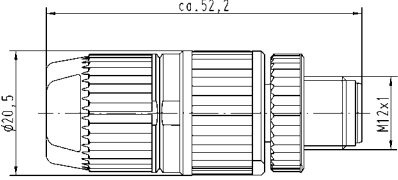
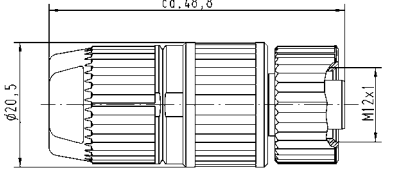
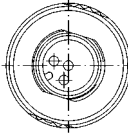
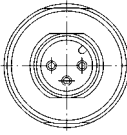


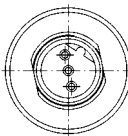
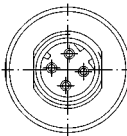
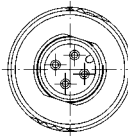
Assembly manual: HARAX®





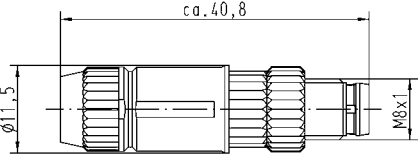
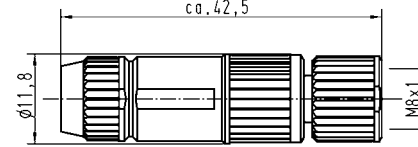




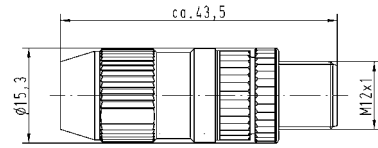
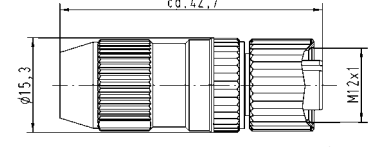
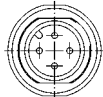


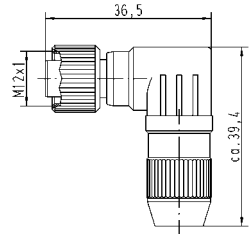
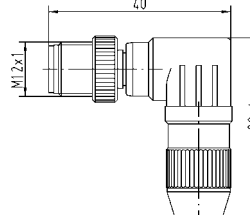
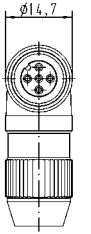
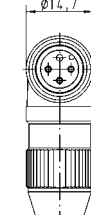
HARAX® shielded

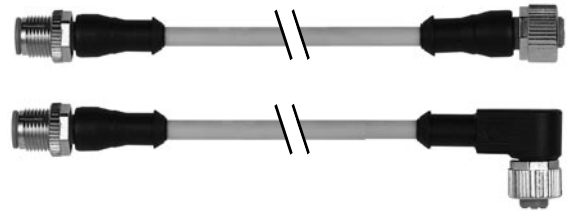
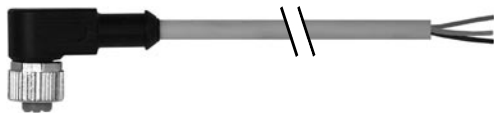




Identification	Part-Number		Drawing	Dimensions in mm
	Male contact (M)	Female contact (F)		
<p>HARAX® M12-L</p> <p>straight version, 4 poles straight version, 3 poles with first-mating contact straight version, 3 poles</p>  <p>straight version, 4 poles straight version, 3 poles with first-mating contact straight version, 3 poles</p> 	<p>21 03 212 1305 21 03 212 1400 21 03 212 1306</p>	<p>21 03 212 2305 21 03 212 2400 21 03 212 2306</p>	 <p style="text-align: right;">M</p>  <p style="text-align: right;">F</p> <p>View mating side, male: HARAX® M12-L</p> <p>3 poles with first-mating contact</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>3 poles</p>  </div> <div style="text-align: center;"> <p>4 poles</p>  </div> </div>	
<p>HARAX® M12-L shielded</p> <p>PROFIBUS version, 3 poles Ethernet version, 4 poles A-coded, 4 poles</p>  <p>PROFIBUS version, 3 poles Ethernet version, 4 poles A-coded, 4 poles</p> 	<p>21 03 241 1300 21 03 281 1405 21 03 221 1405</p>	<p>21 03 241 2300 21 03 281 2405 21 03 221 2405</p>	<p>View mating side, male: HARAX® M12-L shielded</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>3 poles PROFIBUS B-coded</p>  </div> <div style="text-align: center;"> <p>4 poles Ethernet D-coded</p>  </div> <div style="text-align: center;"> <p>4 poles A-coded</p>  </div> </div>	



Identification	Part-Number Male contact (M) Female contact (F)	Drawing	Dimensions in mm
<p>HARAX® M8-S</p> <p>straight version, 3 poles straight version, 4 poles</p>  <p>straight version, 3 poles straight version, 4 poles</p> 	<p>21 02 151 1305 21 02 151 1405</p> <p>21 02 151 2305 21 02 151 2405</p>	 <p>ca. 40,8</p> <p>View mating side: 3 poles, male</p>  <p>ca. 42,5</p> <p>View mating side: 4 poles, male</p>  	
<p>HARAX® M12-S</p> <p>straight version, 4 poles</p>  <p>straight version, 4 poles</p> 	<p>21 03 111 1405</p> <p>21 03 111 2405</p>	 <p>ca. 43,5</p> <p>View mating side: 4 poles, male</p>  <p>ca. 42,7</p> 	
<p>HARAX® M12</p> <p>angled version, 3 poles angled version, 4 poles</p>  <p>angled version, 3 poles angled version, 4 poles</p> 	<p>21 01 130 5081 21 01 140 5081</p> <p>21 01 130 5091 21 01 140 5091</p>	<p>View mating side</p>  <p>36,5</p> <p>View mating side</p>  <p>40</p>	<p>View mating side</p>  <p>View mating side</p> 



System Cabling with
Circular Connectors Han® M12
A-coded, Pre-assembled on one or both ends

Technical Data: Circular Connectors M12, A-coded

M12	3/4 poles, without PE	3/4 poles, without PE, with LED
Working voltage	max. 250 V AC/DC	max. 30 V DC
Working current per contact	max. 4 A	max. 4 A
Locking	Screw locking M12 x 1mm (recommended tightening torque 0.6 Nm) self securing	
Temperature range	- 25°C ... +85°C (depending on the connected conductor)	
Degree of Protection	IP 67	IP 67

Conductors M12

Number of wires/ wire gauge	4 x 0.34 mm ²
Wire insulation	Polypropylene (br, ws, bl, sw)
Arrangement of insulated strands	42 x 0.1 mm
Jacket	Polyurethane (UL/CSA)
Outer diameter	ca. 4.7 mm
Bending radius	10 x outer diameter
Working/ storage temperature after installation	- 25°C ... +80°C

Technical Data: Circular Connectors M8

M8	3/4 poles, without PE	3/4 poles, without PE, with LED
Working voltage	max. 60 V AC/DC	max. 30 V DC
Working current per contact	max. 4 A	max. 4 A
Locking	Screw locking M8 x 1mm (recommended tightening torque 0.6 Nm) self securing	
Temperature range	- 25°C ... +85°C (depending on the connected conductor)	
Degree of protection	IP 67	IP 67

Conductors M8

Number of wires/ wire gauge	3 x 0.25 mm ²
Wire insulation	Polypropylene (br, bl, sw)
Arrangement of insulated strands	32 x 0.1 mm
Jacket	Polyurethane (UL/CSA)
Outer diameter	ca. 4.1 mm
Bending radius	10 x outer diameter
Working/ storage temperature after installation	- 25°C ... +80°C

Han® M12 Circular Connectors



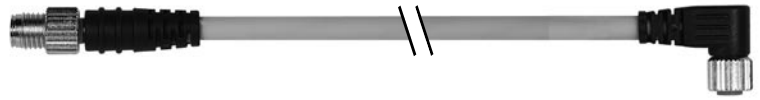
System Cabling with Circular Connector Han® M12

Identification	Part-Number	Drawing	Dimensions in mm
<p>Circular connector M12 female straight; male straight</p> <p>Halogen-free outer jacket: Polyurethane 4 x 0.34 mm²; black UL / CSA approved</p> <p>Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m</p>	<p>21 03 415 2401 21 03 415 2402 21 03 415 2403 21 03 415 2404 21 03 415 2405</p>	<p>View mating side</p> <p>Schematic diagram</p>	
<p>Circular connector M12 female angled; male straight</p> <p>Halogen-free outer jacket: Polyurethane 4 x 0.34 mm²; black UL / CSA approved</p> <p>Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m</p>	<p>21 03 415 5401 21 03 415 5402 21 03 415 5403 21 03 415 5404 21 03 415 5405</p>	<p>View mating side</p> <p>Schematic diagram</p>	
<p>Circular connector M12 female angled with LED male straight</p> <p>Halogen-free outlet jacket: Polyurethane 4 x 0.34 mm²; black UL / CSA approved</p> <p>Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m</p>	<p>21 03 415 7401 21 03 415 7402 21 03 415 7403 21 03 415 7404 21 03 415 7405</p>	<p>View mating side</p> <p>Schematic diagram</p>	

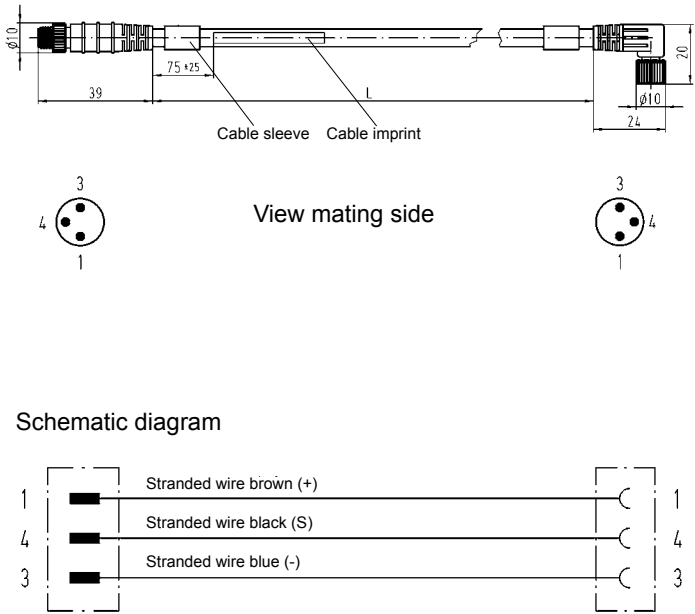
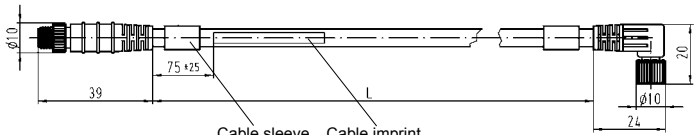
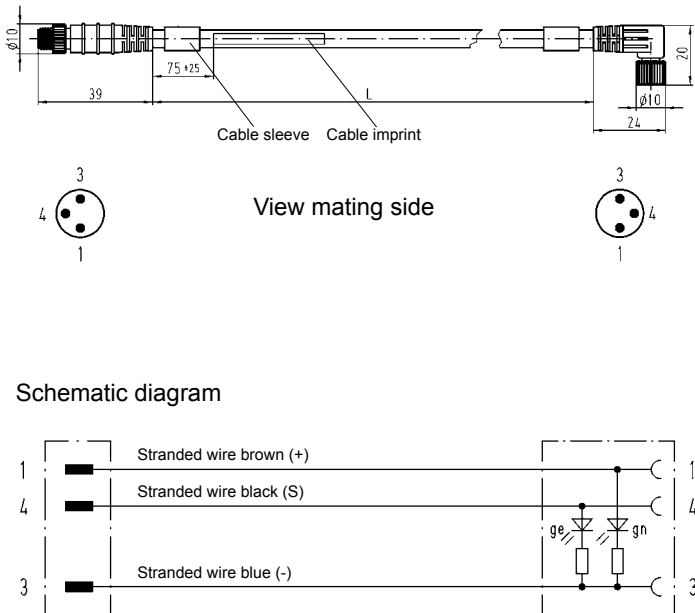
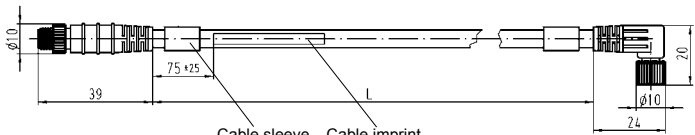


System Cabling with Circular Connector Han® M12

Identification	Part-Number	Drawing	Dimensions in mm
<p>Circular connector M12 female angled; pre-assembled on one end</p> <p>Halogen-free outer jacket: Polyurethane 4 x 0.34 mm²; black UL / CSA approved</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 03 515 4401 21 03 515 4402 21 03 515 4403 21 03 515 4404 21 03 515 4405</p>	<p>Schematic diagram</p> <p>1 — Stranded wire brown (+) 2 — Stranded wire white (O) 4 — Stranded wire black (S) 3 — Stranded wire blue (-)</p> <p>View mating side</p>	
<p>Cabling-set HARAX® M12 range of delivery: Han® M12 connector with individually adap- table cable and HARAX® M12-S</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 83 515 4401 21 83 515 4402 21 83 515 4403 21 83 515 4404 21 83 515 4405</p>	<p>HARAX® M12-S (21 03 111 1405)</p> <p>ca. 43,5</p> <p>View mating side</p>	
<p>Circular connector M12 female angled with LED pre-assembled on one end</p> <p>Halogen-free outer jacket: Polyurethane 4 x 0.34 mm²; black UL / CSA approved</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 03 515 7401 21 03 515 7402 21 03 515 7403 21 03 515 7404 21 03 515 7405</p>	<p>Schematic diagram</p> <p>1 — Stranded wire brown (+) 2 — Stranded wire white (O) 4 — Stranded wire black (S) 3 — Stranded wire blue (-)</p> <p>View mating side</p>	
<p>Cabling-set HARAX® M12 range of delivery: Han® M12 connector with individually adap- table cable and HARAX® M12-S</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 83 515 7401 21 83 515 7402 21 83 515 7403 21 83 515 7404 21 83 515 7405</p>	<p>HARAX® M12-S (21 03 111 1405)</p> <p>ca. 43,5</p> <p>View mating side</p>	



System Cabling with Circular Connector Han® M8

Identification	Part-Number	Drawing	Dimensions in mm
<p>Circular connector M8 female angled; male straight</p> <p>Halogen-free outer jacket: Polyurethane 3 x 0.25 mm²; black UL / CSA approved</p> <p>Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m</p>	<p>21 02 454 5301 21 02 454 5302 21 02 454 5303 21 02 454 5304 21 02 454 5305</p>	 <p>View mating side</p> <p>Schematic diagram</p>	
<p>Circular connector M8 female angled with LED; male straight</p> <p>Halogen-free outer jacket: Polyurethane 3 x 0.25 mm²; black UL / CSA approved</p> <p>Length: 0.3 m 0.6 m 1.0 m 1.5 m 2.0 m</p>	<p>21 02 454 7301 21 02 454 7302 21 02 454 7303 21 02 454 7304 21 02 454 7305</p>	 <p>View mating side</p> <p>Schematic diagram</p>	

System Cabling with Circular Connector Han® M8



Identification	Part-Number	Drawing	Dimensions in mm
<p>Circular connector M8 female angled; pre-assembled on one end</p> <p>Halogen-free outer jacket: Polyurethane 3 x 0.25 mm²; black UL / CSA approved</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 02 554 4301 21 02 554 4302 21 02 554 4303 21 02 554 4304 21 02 554 4305</p>	<p>Schematic diagram</p> <p>1 — Stranded wire brown (+) 4 — Stranded wire black (S) 3 — Stranded wire blue (-)</p> <p>View mating side</p>	
<p>Cabling-set HARAX® M8 range of delivery: Han® M8 connector with individually adap- table cable and HARAX® M8-S</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 82 554 4301 21 82 554 4302 21 82 554 4303 21 82 554 4304 21 82 554 4305</p>	<p>HARAX® M8-S (21 02 151 1305)</p> <p>ca. 40,8</p> <p>View mating side</p>	
<p>Circular connector M8 female angled with LED; pre-assembled on one end</p> <p>Halogen-free outer jacket: Polyurethane 3 x 0.25 mm²; black UL / CSA approved</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 02 554 7301 21 02 554 7302 21 02 554 7303 21 02 554 7304 21 02 554 7305</p>	<p>Schematic diagram</p> <p>1 — Stranded wire brown (+) 4 — Stranded wire black (S) 3 — Stranded wire blue (-)</p> <p>View mating side</p>	
<p>Cabling-set HARAX® M8 range of delivery: Han® M8 connector with individually adap- table cable and HARAX® M8-S</p> <p>Length: 1.5 m 3.0 m 5.0 m 7.5 m 10.0 m</p>	<p>21 82 554 7301 21 82 554 7302 21 82 554 7303 21 82 554 7304 21 82 554 7305</p>	<p>HARAX® M8-S (21 02 151 1305)</p> <p>ca. 40,8</p> <p>View mating side</p>	

New!



Technical Data

Number of contact	5
Rated voltage	230 V / 400 V AC/DC
Rated voltage UL	600 V AC/DC
Rated current	10 A
Testing voltage	4 kV 3
Conductor gauge	0.75 - 1.5 mm ²
Diameter of individual strands	≥ 0.2 mm
Wire insulation material	Polyvinylchloride
Wire diameter	≤ 2.8 mm
Cable diameter	6 - 9.5 mm / 9 - 12.5 mm
Temperature range	-40°C ... +85°C
Temperature during termination	-5°C ... +50°C
Protection degree	IP 65 / 67
Reconnection to the same wire gauge	10 times

Identification	Part-Number	Drawing	Dimensions in mm
<p>HARAX® 7/8" male</p>	21 04 116 1505		<p>Technical drawing showing front and side views of the male connector. Dimensions include a diameter of 28 mm, a length of 73.3 mm, and a thread specification of 7/8-16 UN-2A.</p>
<p>HARAX® 7/8" female</p>	21 04 116 2505		<p>Technical drawing showing front and side views of the female connector. Dimensions include a diameter of 28 mm, a length of 70.1 mm, and a thread specification of 7/8-16 UN-2B.</p>
<p>Panel feed-through</p>	21 04 316 1505		<p>Technical drawing showing side and front views of the panel feed-through connector. Dimensions include a thread of 7/8-16 UNF-2A, an M20x1.5 mounting hole, and a length L2. The front view shows a width across flats of 24 mm (SW24).</p>

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