

stay connected

## M12 female 90° A-cod. with cable shielded

PUR 5x0.34 shielded bk UL/CSA+drag ch. 2m

Female 90° M12, 5-pole shielded

with cable sleeves

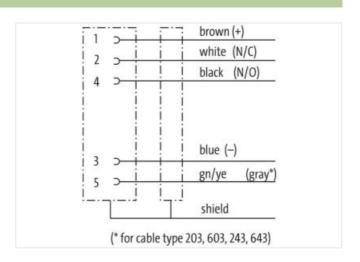
Plastic housings with good resistance against chemicals and oils.

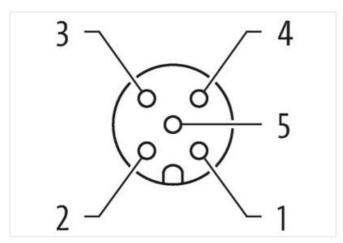
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

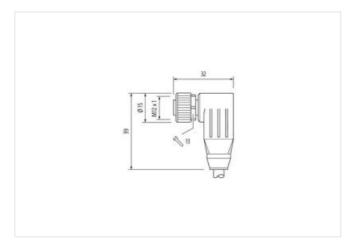
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

2 m

Side 1

Tightening torque

0,6 Nm

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-02



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Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	
-	gold plated
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879593106
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Installation   Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting

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Environmental characteristics   Climatic Operating temperature min.	Mounting method	inserted, screwed, Shaking protection	
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contormity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 643  Cable Type 3  Cable Type 3  Cable Type 3  Cable Certificate cURus  Amount stranding 1  Swires around Core filler twisted  Cable shielding (type) cooper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil Filler yes  wire arrangement brown, black, blue, white, gray  Cable weight 57.2 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 5.6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter insulation 1,25 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1,24 mm  Material conductor wire Stranded copper wire, bare	Environmental characteristics   Climatic		
Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification S43  Cable Type 3  Jacket Color black  Type of Certificate CURUs  Amount stranding 1  Stranding 5 wires around Core filler twisted  Cable shielding (type) cooper braid, linned  Cable shielding (type) cooper braid, linned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  Filler yes  wire arrangement brown, black, blue, white, gray  Cable weight 57,2 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  Amount wires 5  Outer-diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter (sheath) 1,25 mm  Outer diameter insulation 1,25 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1,25 mm  Outer diameters wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1,26 mm  Outer diameters wire insulation 1,26 mm  Outer diameter swire insulation 1,26 mm  Outer diameter swire insulation 1,26 mm  Outer diameter insulation 1,26 mm  Outer diameter insulation 1,26 mm  Outer diameter swire insulation 1,26 mm  Outer diameter insulation 1,26 mm  Outer diameter insulation 1,26 mm  Outer diameter folerance core insulation 1,26 mm  Outer diameter insulation 1,26 mm  Outer diameter folerance wire insulation 1,26 mm  Outer diameter folerance wire insulation 1,26 mm	Operating temperature min.	-25 °C	
Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Cable Identification         643           Cable Identification         643         3           Gable Type         3         3           Jacket Color         black         4           Type of Cerificate         culPus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         5.7 2 g/m           Material jacket         PUR           Shore hardness jacket         9 5 5 Shore A           Teedom from ingredients (jacket)         5.6 mm           Outer-diameter (jacket)         5.6 mm           Tolerance outer diameter	Operating temperature max.	85 °C	
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 643 Cable Type 3 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 5 wires around Core filler twisted Cable shielding (type) copper braid, tinned Cable shielding (type) copper braid, tinned Cable shielding (type) province and prov	Additional condition temperature range	depending on cable quality	
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 643  Cablo Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Sirranding 5 wires arround Core filler twisted  Cable shielding (type) copper braid, tinned  Cable shielding (type) price	Important installation notes		
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Product standard DIN En 61076-2-101 (M12)  Installation   Cable  Cable identification 643  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Core filler twisted  Cable shielding (coverage) 80 %  Banding Fleece, Foil Filler yes  Wire arrangement brown, black, blue, white, gray  Cable weigth 57,2 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 5,6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation 1,25 mm  Outer diameter folerance core insulation 1,25 mm  Outer diameter folerance core insulation 1 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Indicated the condition of the cadmium-free, CFC-free, halogen-free, silicone-free  Outer diameter (olerance core insulation 1,25 mm  Outer diameter folerance core insulation 1,25 mm  Outer diameter folerance core insulation 1 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Ingredient freeness wire insulation 1 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42  Diameter of single wires 0,1 mm  Canductor crosssection (wire) 0,34 mm²  Material conductor wire 0 Stranded copper wire, bare		Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties	
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Installation   Cable           Cable identification         643           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigth         57,2 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         10 ± 5 Shore D	Conformity		
Installation   Cable           Cable identification         643           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Bandling         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigth         57.2 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulatio	Product standard	DIN EN 61076-2-101 (M12)	
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Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare			
Material conductor wire Stranded copper wire, bare	<u> </u>		
Conductor type (wire) strand class 6	Conductor type (wire)	strand class 6	
Traversing distance (C-track) 5 m @ 25 °C   horizontal	**		
Nominal voltage AC max. 300 V			
Current load capacity (standard) to DIN VDE 0298-4			
Current load capacity min. wire 4,5 A			
Electrical resistance line constant wire 57 Ω/km @ 20 °C		· · · · · · · · · · · · · · · · · · ·	
AC withstand voltage (wire - wire) 2 kV @ 60 s	AC withstand voltage (wire - wire)		
Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s	Power frequency withstand voltage (wire -		
AC withstand voltage (wire - shield) 2 kV @ 60 s	AC withstand voltage (wire - shield)	2 kV @ 60 s	
Min. operating temperature (static) -40 °C	Min. operating temperature (static)	-40 °C	
Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation	
Operating temperature min. (dynamic) -25 °C	Operating temperature min. (dynamic)	-25 °C	
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation	



UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 30 °/m