

## M12 male 90° / M8 female 90° A-cod.

PUR 3x0.25 bk UL/CSA 18m

## 

Male 90° - female 90°

M12 – M8, 3-pole

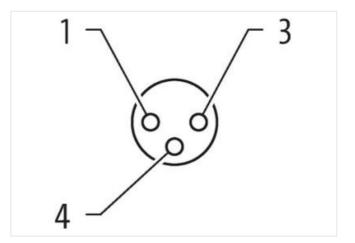
Plastic housings with good resistance against chemicals and oils.

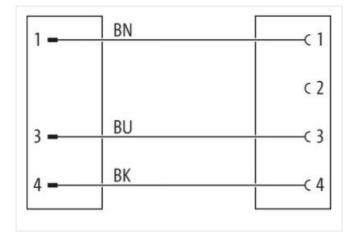
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

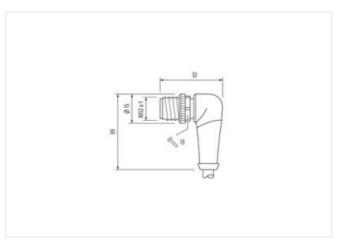
## Link to Product

Illustration





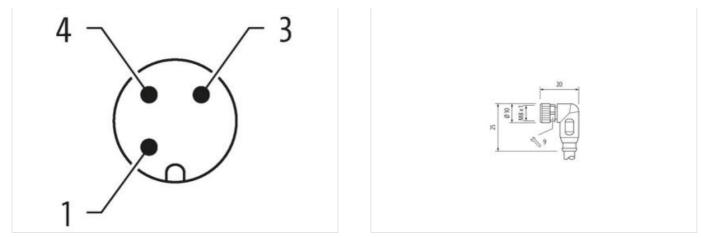




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Product may differ from Image



Cable length	18 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $Ø$ )	10 mm
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Material	PUR
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	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	4048879158183
Packaging unit	1
Electrical data   Supply	

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Operating voltage AC max.	50 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
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	·
Mounting method	inserted, screwed, Shaking protection
-	
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Installation   Cable	
Cable identification	620
Cable Type	2
Jacket Color	black
T (0 ) (0 )	
Type of Certificate	cURus
Type of Certificate Amount stranding	cURus 1
Amount stranding	1
Amount stranding Stranding	1 3 wires twisted
Amount stranding Stranding wire arrangement No. of bending cycles (C-track)	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C
Amount stranding Stranding wire arrangement	1 3 wires twisted brown, black, blue
Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m
Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR
Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A
Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free
Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter insulation	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter insulation         Outer diameter tolerance core insulation	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D         good machinability
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D         good machinability         lead-free, cadmium-free, CFC-free, silicone-free
Amount stranding         Stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation         Material properties wire insulation         Amount strands (wire)	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D         good machinability         lead-free, cadmium-free, CFC-free, silicone-free
Amount stranding         Stranding         Wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation         Material properties wire insulation         Ingredient freeness wire insulation         Amount strands (wire)         Diameter of single wires	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D         good machinability         lead-free, cadmium-free, CFC-free, silicone-free         32         0,1 mm
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation         Ingredient freeness wire insulation         Amount strands (wire)         Diameter of single wires         Conductor crosssection (wire)	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D         good machinability         lead-free, cadmium-free, CFC-free, silicone-free         32         0,1 mm         0,25 mm²
Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation         Material properties wire insulation         Material properties wire insulation         Duter diameter of single wires         Conductor crosssection (wire)         Material conductor wire	1         3 wires twisted         brown, black, blue         2 Mio. @ 25 °C         26,62 g/m         PUR         85 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         4,3 mm         ± 5 %         PVC         3         1,25 mm         ± 5 %         43 ± 5 Shore D         good machinability         lead-free, cadmium-free, CFC-free, silicone-free         32         0,1 mm         0,25 mm²         Stranded copper wire, bare

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Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   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)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter

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