

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

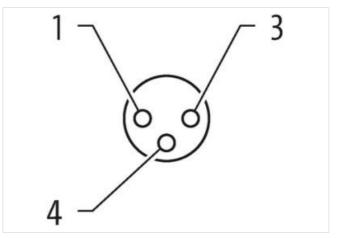
PUR 3x0.25 bk UL/CSA+robot+drag ch. 0.3m

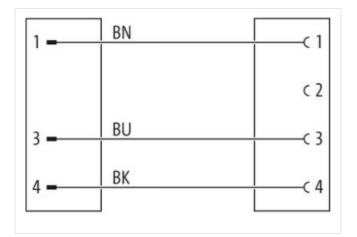
Male 90° – female 90° M12 – M8, 3-pole Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

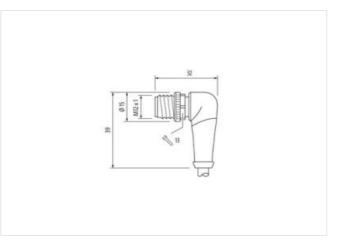
## Link to Product

## Illustration



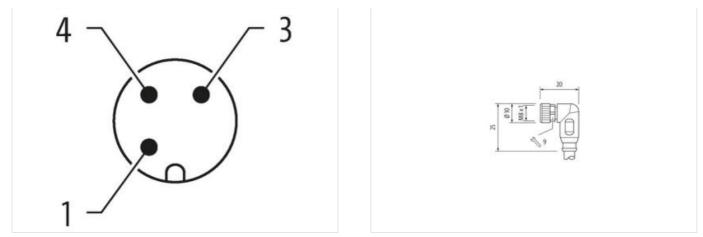






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Product may differ from Image



Cable length	0,3 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 $\emptyset$ )	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-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	4048879417570
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	safe-cover coated
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	650
Cable Type	5
	black
Jacket Color	black
Jacket Color Type of Certificate	cURus
Jacket Color Type of Certificate Amount stranding	cURus 1
Jacket Color Type of Certificate Amount stranding Stranding	cURus 1 3 wires twisted
Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	cURus       1       3 wires twisted       brown, black, blue
Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C
Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m
Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR
Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         No. of bending cycles (C-track)         Cable weigth         Material jacket         Shore hardness jacket	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D
Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR
Jacket Color Type of Certificate 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)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm
Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Jacket Color Type of Certificate 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)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %
Jacket Color Type of Certificate 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	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP
Jacket Color         Type of Certificate         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	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3
Jacket ColorType of CertificateAmount strandingStrandingStrandingwire arrangementNo. of bending cycles (C-track)Cable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter insulation	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm
Jacket Color Type of Certificate 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	cURus13 wires twistedbrown, black, blue10 Mio. @ 25 °C26,4 g/mPUR58 ± 3 Shore Dlead-free, cadmium-free, CFC-free, halogen-free4,3 mm± 5 %PP31,25 mm± 5 %
Jacket Color Type of Certificate 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 Shore hardness wire insulation	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D
Jacket Color         Type of Certificate         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         Ingredient freeness wire insulation	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Jacket ColorType of CertificateAmount strandingStrandingStrandingwire arrangementNo. of bending cycles (C-track)Cable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationAmount strands (wire)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Jacket ColorType of CertificateAmount strandingStrandingwire arrangementNo. of bending cycles (C-track)Cable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationAmount strands (wire)Diameter of single wires	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         32         0,1 mm
Jacket Color         Type of Certificate         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         Shore hardness wire insulation         Amount strands (wire)         Diameter of single wires         Conductor crosssection (wire)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         32         0,1 mm         0,25 mm <sup>2</sup>
Jacket ColorType of CertificateAmount strandingStrandingwire arrangementNo. of bending cycles (C-track)Cable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationIngredient freeness wire insulationAmount strands (wire)Diameter of single wiresConductor crosssection (wire)Material conductor wire	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1.25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         32         0,1 mm         0,25 mm²         Stranded copper wire, bare
Jacket ColorType of CertificateAmount strandingStrandingwire arrangementNo. of bending cycles (C-track)Cable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationAmount strands (wire)Diameter of single wiresConductor crosssection (wire)Material conductor wireConductor type (wire)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         32         0,1 mm         0,25 mm²         Stranded copper wire, bare         strand class 6
Jacket ColorType of CertificateAmount strandingStrandingwire arrangementNo. of bending cycles (C-track)Cable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationAmount strands (wire)Diameter of single wiresConductor crosssection (wire)Material conductor wireConductor type (wire)Traversing distance (C-track)	cURus         1         3 wires twisted         brown, black, blue         10 Mio. @ 25 °C         26,4 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,3 mm         ± 5 %         PP         3         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         32         0,1 mm         0,25 mm²         Stranded copper wire, bare         strand class 6         5 m @ 25 °C   horizontal

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Electrical resistance line constant wire	79 Ω/km @ 20 °C
Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket)	2,5 kV @ 60 s
AC withstand voltage power (wire - wire)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	1 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 360 °/m

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