

## M12 male 0° / M12 female 90° A-cod. LED

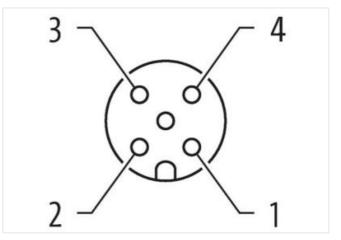
PUR 4x0.34 bk UL/CSA+robot+drag ch. 1m

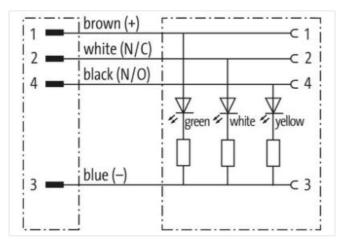
Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

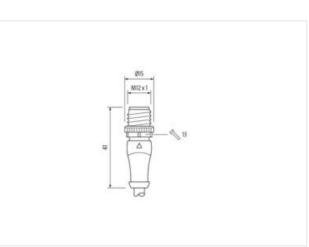
## Link to Product

Illustration



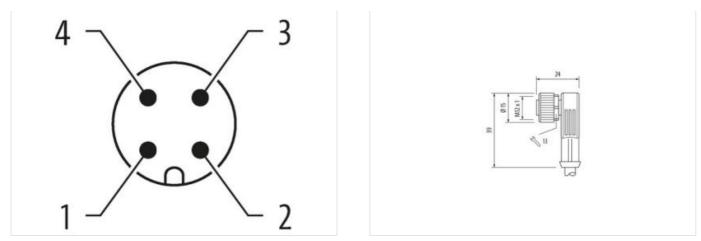






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Product may differ from Image



Cable length	1 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)	IP65, IP66K, IP67
Side 2	
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)	IP65, 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	4048879169295
Packaging unit	1
Electrical data   Supply	

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Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, white, yellow
	gicen, while, yenow
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
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 ℃
Additional condition temperature range	depending on cable quality
Conformity	
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
	DIN EN 61076-2-101 (M12)
Product standard	DIN EN 61076-2-101 (M12) 654
Product standard Installation   Cable	
Product standard Installation   Cable Cable identification	654
Product standard Installation   Cable Cable identification Cable Type	654 5
Product standard Installation   Cable Cable identification Cable Type Jacket Color	654 5 black
Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding	654         5         black         cURus         1         4 wires twisted
Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	654 5 black cURus 1 4 wires twisted brown, black, blue, white
Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track)	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C
Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m
Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR
Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D
Product standard Installation   Cable Cable identification Cable Type 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)	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Product standard Installation   Cable Cable identification Cable Type 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)	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free         4,7 mm
Product standard Installation   Cable Cable identification Cable Type 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)	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free         4,7 mm         ± 5 %
Product standard Installation   Cable Cable identification Cable Type 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	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP
Product standard Installation   Cable Cable identification Cable Type 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	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4
Product standard Installation   Cable Cable identification Cable Type 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	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4         1,25 mm
Product standard Installation   Cable Cable identification Cable Type 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	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4         1,25 mm         ± 5 %
Product standard Installation   Cable Cable identification Cable Type 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	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4         1,25 mm         ± 5 %         74 ± 3 Shore D
Product standard Installation   Cable Cable identification Cable Type 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 Shore hardness wire insulation Ingredient freeness wire insulation	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Product standard Installation   Cable Cable identification Cable Type 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 Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire)	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         42
Product standard Installation   Cable Cable identification Cable Type 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 Shore hardness wire insulation Ingredient freeness wire insulation	654         5         black         cURus         1         4 wires twisted         brown, black, blue, white         10 Mio. @ 25 °C         36,3 g/m         PUR         58 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,7 mm         ± 5 %         PP         4         1,25 mm         ± 5 %         74 ± 3 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

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Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	60 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	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	Good, application-related testing   DIN EN 60811-404
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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