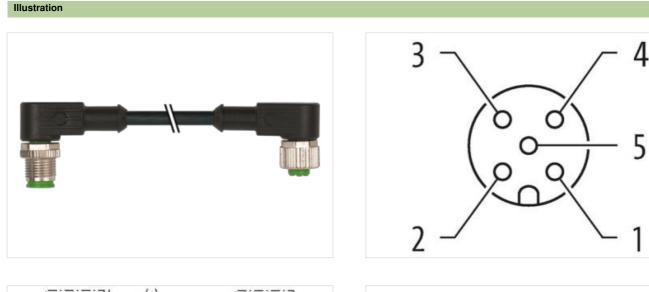


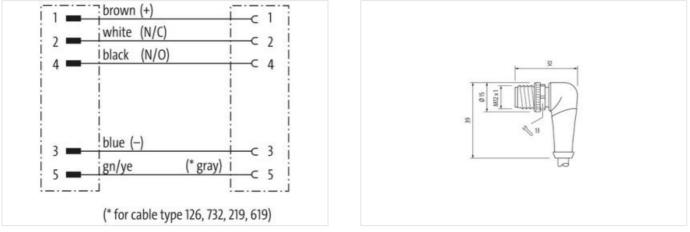
## M12 male 90° / M12 female 90° A-cod.

PUR 5x0.34 bk UL/CSA+drag ch. 20m

Male 90° – female 90° M12 – M12, 5-pole 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.

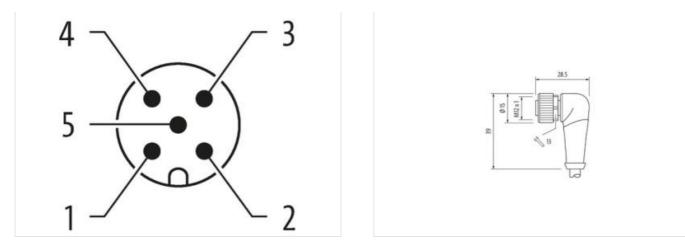
## Link to Product





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Product may differ from Image



Cable length	20 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
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	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
Coding	A
Material	PUR
Width across flats	SW13
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
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879702744
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	125 V

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Operating voltage DC max.	125 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Material group (IEC 60664-1)	I
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
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.
Installation   Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	635
Cable Type	3
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	
	5 wires around Core filler twisted
Filler	5 wires around Core filler twisted yes
Filler wire arrangement	
Filler wire arrangement Cable weigth	yes brown, black, blue, white, green-yellow 41,8 g/m
Filler wire arrangement	yes brown, black, blue, white, green-yellow 41,8 g/m PUR
Filler wire arrangement Cable weigth Material jacket Shore hardness jacket	yes brown, black, blue, white, green-yellow 41,8 g/m PUR 90 ± 5 Shore A
Filler         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Filler         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm
Filler         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %
Filler         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP
Filler         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5
Filler         wire arrangement         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	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm
Filler         wire arrangement         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	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %
Filler         wire arrangement         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	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D
Filler         wire arrangement         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	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Filler         wire arrangement         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)	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Filler         wire arrangement         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         Ingredient freeness wire insulation         Diameter of single wires	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         42         0,1 mm
Filler         wire arrangement         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         Amount strands (wire)         Diameter of single wires         Conductor crosssection (wire)	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         42         0,1 mm         0,34 mm²
Filler         wire arrangement         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         Amount strands (wire)         Diameter of single wires         Conductor crosssection (wire)         Material conductor wire	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         42         0,1 mm         0,34 mm²         Stranded copper wire, bare
Filler         wire arrangement         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         Ingredient freeness wire insulation         Ingredient strands (wire)         Diameter of single wires         Conductor crosssection (wire)	yes         brown, black, blue, white, green-yellow         41,8 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         4,8 mm         ± 5 %         PP         5         1,25 mm         ± 5 %         70 ± 5 Shore D         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         42         0,1 mm         0,34 mm²

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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)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	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   UL 1581 § 1090   IEC 60332-2-2
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 bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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