

## M12 male 0° A-cod. with cable

PUR 3x0.34 bk UL/CSA+drag ch. 1.4m

Male straight

M12, 3-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

with cable sleeves

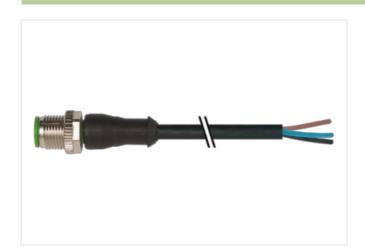
Plastic housings with good resistance against chemicals and oils.

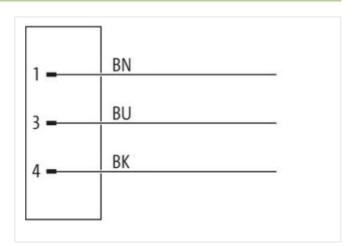
The resistance to aggressive media should be individually tested for your application. Further details on request.

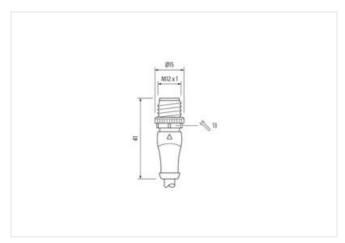
Further cable lengths on request.

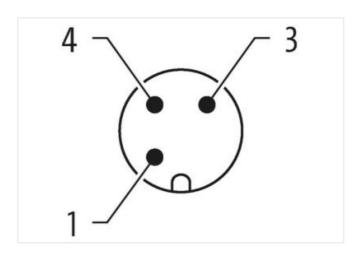
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

1,4 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: 2024-05-20



Family constitution form   M12	Mounting method	inserted, screwed	
Thread		· · · · · · · · · · · · · · · · · · ·	
suitable for corrugated tube (internal 0) 10 mm Cocting A A Material PUR No. of poles 3 S Oprios (1) 1			
Coding         A           Material         PUR           Mon of poles         3           Widh across flats         SWI3           Degree of protection (R NEC 8059)         IP66, IP67           Side 2           Strepping length (tacker)         20 mm           Commercial (tacker)           Commercial (tacker)           COLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-9.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.2         27060311 <th colsp<="" td=""><td></td><td></td></th>	<td></td> <td></td>		
No. of poles         3           Width across falses         W13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Stripping length (lacker)         20 mm           Commercial (lacker)           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.2         27060311           ECLASS-1.2.0         27060311           ECLASS-1.0         280706031           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Op		A	
Width across flats   SW13     Dagries of protection (EN IEC 60529)   P95, IP60K, IP67	Material	PUR	
Degree of protection (EN IEC 80529)	No. of poles	3	
Side 2           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27090311           ECLASS-10.1         27090311           ECLASS-11.1         27090311           ECLASS-11.1         27090311           ECLASS-12.0         27090311           ETIM-5.0         EC01855           usborn staff number         6844290           GTIN         404879789080           Packaging unit         1           Electrical data   Supply         1           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating per contact max.         4 A           Installation   Connection         Stripsing length (acket) <t< td=""><td>Width across flats</td><td>SW13</td></t<>	Width across flats	SW13	
Stripping length (jacket)   20 mm	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67	
Commercial data           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 9.0         27279218           ECLASS 9.0         27090311           ECLASS 9.0         27090311           ECLASS 1.1         27090311           ECLASS 1.2.0         27090311           ECLASS 1.2.0         27090311           ECLASS 1.2.0         ECOMBS 5           customs tariff number         8544290           GTIN         4048979789080           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.           Operating voltage AC (IU-listed)         30 V           Operating plongth (jacket)         30 W           Mouring porting porting to contact max.         4 A           Electrical Connection           Stripping longth (jacket)         20 mm           Mounting pate         M12 t	Side 2		
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-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 1 27060311 ECLASS-12.0 1 27060311 ETIM-5.0 ECO1855 customs tariff number 8444290 GTIN 4048879789080 Packagn unit 1  Electrical data [Supply Operating voltage AC max. 250 V Operating voltage AC max. 250 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V Current operating per contact max. 4 A  Installation [Connection  Stripping length (jacket) 30 V  Device protection [Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage AC (UL-listed) 1  Mechanical data   Material data  Coasing of fitting nickel plated  Coasing of fitting nickel plated  Coasing of fitting nickel plated  Lockeng material 2 inc die-casting  Material screw connection 2 inc die-casting  Mechanical data   Munting data  Mounting method inserted, Screwed, Shaking protection  Environmental characteristics   Climatic  Operating beneperature min. 25° C	Stripping length (jacket)	20 mm	
ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0         27060311           ECLASS 9.0         27060311           ECLASS 9.1         27060311           ECLASS 9.1         27060311           ECLASS 9.2         27060311           ETIM 5.0         EC001855           customs tariff number         85444290           GTIN         404879799080           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         250 V           Operating voltage DC max.         250 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           International per contact max.         4 A           Numple length (gacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Read surge voltage         2,5 kV           Material strough (EC 60664-1)         I	Commercial data		
ECLASS-8.0         27279218           ECLASS-9.0         27660311           ECLASS-10.1         27660311           ECLASS-11.1         27060311           ECLASS-12.0         27660311           ECLASS-12.0         E0001855           customs tariff number         65444290           GTIN         4048879789080           Packaging unit         1           Electrical data   Suppty           Operating voltage AC max.         250 V           Operating voltage AC (IL-Isled)         30 V           Operating voltage DC max.         250 V           Operating voltage DC (IL-Isled)         30 V           Operating por contact max.         4 A           Installation   Connection           Stripping length (lacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree           Installation   Connection           Poliution Degree         3           Additional condition protection degree           Installation   Connection           Mechanical data   Material data           Costing lockin	ECLASS-6.0	27279218	
ECLASS -0.0   27060311   270603	ECLASS-7.0	27279218	
ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         40487978980           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.           250 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Stripping length (jackel)           Stripping length (jackel)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         2,5 kV           Material group (IEC 60664-1)         I	ECLASS-8.0	27279218	
ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-S.0         ECO01855           customs tariff number         85444290           GTIN         4048879789090           Packaging unit         1           Electrical data   Supply         Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Mix 1           Bevice protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         2,5 kV           Material group [EC 60684-1)         I           Mechanical data   Material data         Nickeled           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Z	ECLASS-9.0	27060311	
ECLASS-12.0         27060311           ETIMS-0         EC001855           customs tariff number         85444290           GTIN         4048879789080           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Installation   Connection           Stripping length (jackel)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree           Pollution Degree         3           Rated surge voltage         2,5 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data           Coating of fitting         nickel plated           Coating of fitting         nickel plated           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data	ECLASS-10.1	27060311	
ETIM-5.0 EC001855 customs tariff number 8544290 GTIN 4048879789080 Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 250 V Operating voltage AC max. 250 V Operating voltage DC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V  Current operating per contact max. 4 A  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 2, 5kV Material group (IEC 80664-1)   I  Mechanical data   Material data  Coating of fitting nickel plated Locking material 2 inc die-casting  Material screw connection 2 inserted, screwed, Shaking protection  Mechanical data   Munting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatics   Climatics   Coating temperature min25 °C Operating temperature max. 85 °C  Additional condition temperature maxe depending on cable quality	ECLASS-11.1	27060311	
customs tariff number 85444290 GTIN 4048879789080 Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 250 V  Operating voltage AC max. 250 V  Operating voltage AC [UL-listed) 30 V  Operating voltage AC [UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Operating voltage DC (UL-listed) 4A  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 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating looking Nickeled  Coating offiting 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  Environmental characteristics   Climatic  Coperating temperature max. 85 °C  Additional condition temperature maxe depending on cable quality	ECLASS-12.0	27060311	
STIN   4048879789080	ETIM-5.0	EC001855	
Packaging unit 1  Electrical data   Supply  Operating voltage DC max. 250 V  Operating voltage DC max. 250 V  Operating voltage DC (Ul-listed) 30 V  Operating voltage DC (Ul-listed) 30 V  Current operating per contact max. 4 A  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 2,5 kV  Material group (IEC 60664-1) 1  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Material protection   Electrical Cimatic  Poperating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	customs tariff number	85444290	
Committee   Comm	GTIN	4048879789080	
Operating voltage AC max. 250 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V  Current operating per contact max. 4 A  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 2,5 kV Material group (IEC 60664-1) 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 min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality	Packaging unit	1	
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Current operating per contact max. 4 A  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 2,5 kV  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Operating voltage AC (UL-listed)	30 V	
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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 min25 °C  Additional condition temperature range depending on cable quality	Pollution Degree	3	
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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Rated surge voltage	2,5 kV	
Coating locking  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	Material group (IEC 60664-1)	1	
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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Mechanical data   Material data		
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Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Coating of fitting	nickel plated	
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Locking material	Zinc die-casting	
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Material screw connection	Zinc die-casting	
Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality	Mechanical data   Mounting data		
Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality	Mounting method	inserted, screwed, Shaking protection	
Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Environmental characteristics   Climatic		
Additional condition temperature range depending on cable quality	Operating temperature min.	-25 °C	
	Operating temperature max.	85 °C	
Important installation notes	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 strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	



stay connected

Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces.

	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
wire arrangement	brown, black, blue
Cable identification	633
Cable Type	3
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	brown, black, blue
Cable weigth	29,7 g/m
Material 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)	4,1 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0.34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
	strand class 6
Conductor type (wire)	
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6 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 § 1090   UL 1581 § 1100 FT2   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