

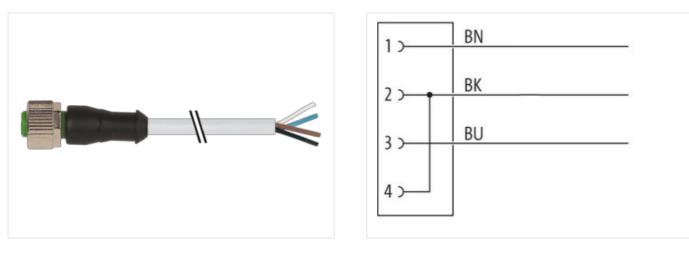
## M12 female 0° A-cod. with cable

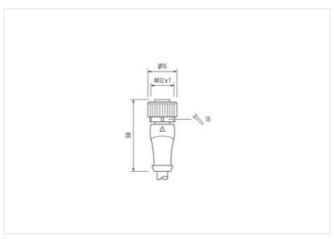
PUR 3x0.34 gy UL/CSA+drag ch. 20m

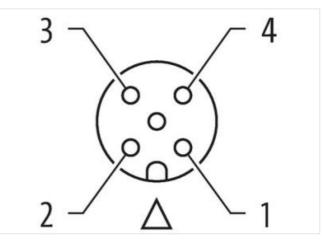
Female straight M12, 4-pole Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

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: 2024-05-02

20 m

0,6 Nm



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Tread         M12 x 1           suitable for corruguied tube (internal Ø)         10 mm           Coding         A           Material contact         Cooper aloy           Material contact         Cooper aloy           Material contact         PUB           No. of poles         4           Worth across fulls         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Stde 2            Stopping longh (jacket)         20 mm           Contact call data         gold plated           Commercial data         gold plated           CLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27260311           ECLASS-7.0         2720931           ECLASS-8.0         27000311           ECLASS-8.11         27000311           ECLASS-7.0         ECO01655           Costing unit         1           Exterior data [ Supply            Operating valtage AC (IL-Istad)         30 V           Operating valtage AC (IL-Istad)         30 V           Operating valtage AC (IL-Istad)         30 V           <	Coating contact	gold plated
autable for corrugated tube (internal 0)         10 mm           Coding         A           Material contact         Cooper aloy           Material contact         PUR           No. of polas         4           With a consen fues         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K IP67           Side 2            Conting contact         god plated           Contang contact         god plated           Contang contact         god plated           Contang contact         god plated           Contage contact         27279218           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27090311           ECLASS 7.0         27000311	Family construction form	M12
Cading         A           Material contact         Copper ally           Material         PUR           No. of poles         4           With across titus         SW13           Degree of protection (EN IEC 60529)         IPES, IPEER, IPE7           Stob 2         Stob 2           Stob 2         Umm           Conting contact         gold plated           Contact 3         gold plated           Contact 3         2779218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 6.1         2720918           ECLASS 6.1         2720918           ECLASS 6.1         27090311           ECLASS 6.1         2000311           ECLASS 7.0         201855           Coatons fall number         8644280           G1M         4048478214599           Packaging unit         1           Electrical stall stopped AC max.         260 V           Operating voltapa A	Thread	M12 x 1
Material         Coppor alloy           Material         PUR           No. o' poles         4           With acorsa finis         SW13           Degree of protection (EN UE 605020)         IP65, IP66K, IP67           Side 2         Side 2           Commercial data         gold plated           Commercial data         gold plated           Commercial data         27279218           ECLASS 6.0         27279218           ECLASS 7.0         27260311           ECLASS 7.0         2760311           ECLASS 7.0         27060311           ECLASS 7.1         27060311           ECLASS 7.2.0         27060311           ECLASS 7.1         27060311           <	suitable for corrugated tube (internal Ø)	10 mm
Material         PUR           No. of poles         4           Wich arrose flats         SW13           Degree of protection (EN EC 60529)         IPES, IPE6K, IPE7           Side 2         Side restriction (EN EC 60529)           Side 2         Ommercial data           Commercial data         gold plated           Commercial data         20 nm           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27060311           ECMASS 7.0         27060311           ETM 5.0         EC001855           caustoms staff number         5544280           GTM         4048979714999	Coding	A
No. of poles         4           Widh across flats         SW13           Degree of protection (EN ECG 6059)         IP65, IP66K, IP67           Side 2         2           Side across flats         opd paled           Commercial dats         opd paled           Commercial dats         27279218           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27060311           ECLASS-7.0         27060311           ECLASS-7.0         27060311           ECLASS-7.0         ECO019855           outsom tarf number         854429.0           GTIM         404897214599           Packaging unit         1           Electrical data J Suppl         Coreating voltage AC max.           Operating voltage AC (ILL-Sited)         30 V           Operating voltage AC (ILL-Sited)         30 V           Operating voltage AC (ILL-Sited)         30 V <t< td=""><td>Material contact</td><td>Copper alloy</td></t<>	Material contact	Copper alloy
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Degree of protection (EN IEC 60359)         IP65, IP66K, IP67           Side 2         Sitipping length (acket)         20 mm           Commercial data         gold plated         Commercial data           ECLASS-6.0         27279218         Commercial data           ECLASS-7.0         27279218         Commercial data           ECLASS-7.0         27279218         Commercial data           ECLASS-7.0         27279218         Commercial data           ECLASS-8.0         27279218         Commercial data           ECLASS-8.0         27279218         Commercial data           ECLASS-8.1.1         27060311         Commercial data           ECLASS-10.1         27060311         Commercial data           ECLASS-11.1         27060311         Commercial data           Constrait functor         85444290         Commercial data           GTIN         4048879214999         Pachaging unta         Commercial data           Pachaging unta         1         Commercial data         Commercial data           Granting voltage AC (una.         250 V         Commercial data         Commercial data           Oparating voltage AC (una.         250 V         Commercial data         Commercial data           Statis indication LED         no	No. of poles	4
Sing ingmit (ancher)         20 mm           Conting contact         gold plated           Consenserial data	Width across flats	SW13
Stripping length (jacket)         20 mm           Continue         gold pieled           Commercial data            ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27090311           ECLASS-10.1         27090311           ECLASS-12.0         2709031           EctaSS-12.0         270 V           Operating volage AC max.         250 V           Operating volage DC max.         250 V           Operatin	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Costing contact         gold plated           Commercial data	Side 2	
Commercial data           ECLASS 6.0         27279218           ECLASS 7.0         27060311           ECLASS 7.0.1         27060311           ECLASS 7.0         ECO0165           customs tariff number         8644290           GTIN         4046879214599           Packaging unit         1           Etectroal data   Supply	Stripping length (jacket)	20 mm
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         2709311           ECLASS-7.0.1         27060311           ECLASS-1.0.1         27060311           ECLASS-1.0.1         27060311           ECLASS-1.0         27060311           Deprint voltage AC max.         250 V           Operating voltage AC (LL-listd)         30 V           Current operating per contact max.         4 A           D	Coating contact	gold plated
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         2709311           ECLASS-7.0.1         27060311           ECLASS-1.0.1         27060311           ECLASS-1.0.1         27060311           ECLASS-1.0         27060311           Deprint voltage AC max.         250 V           Operating voltage AC (LL-listd)         30 V           Current operating per contact max.         4 A           D	Commercial data	
ECLASS-6.1         27278218           ECLASS-7.0         27278218           ECLASS-8.0         27278218           ECLASS-8.0         27278218           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETM-5.0         EC001855           customs tariff number         8544290           GTN         404879214599           Packaging unit         1           Electrical data   Supply		27970210
ECLASS 7.0         27278218           ECLASS 8.0         27278218           ECLASS 9.0         27060311           ECLASS 1.0.1         27060311           ECLASS 1.1.1         27060311           ECLASS 1.2.0         27060311           Ectrical data [Supply         20           Operating voltage AC max.         250 V           Operating voltage C (UIsted)         30 V           Current operating voltage AC (U.Listed)         30 V           Current operating voltage C (U.Listed)         30 V           Batous		
ECLASS-8.0         27279218           ECLASS-0.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         ECON1855           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 AC (UL-listed)         30 V           Stipping length (acket)         20 mm           Mounting set         M12 x 1           Device protection		
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ETM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879214599           Packaging unit         1           Electrical data   Supply         Operating voltage AC max.           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostice         Status Indication LED         no           Installation   Connection         N12 x 1           Device protection   Electrical data   M12 x 1         Device protection degree         inserted, screwed           Poliution Degree         3         Rated surge voltage         2,5 kV           Material group (IEC 60664-1)         1         Image: Contage AC (IEC and Contage AC (IEC and Contage AC (IEC and Contage AC		
ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           customs tariff number         85444290           GTIN         4048879214599           Packaging unt         1           Electrical data   Supply         Operating voltage AC max.           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         20 mm           Status indication LED         no           Installation   Connection         Status indication LED           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical         20 km           Additional condition protection degree         3           Rated urge voltage         2,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Coating of fitting           nickel plated         Materi		
ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs taff number         85444290           GTIN         4048879214599           Packaging unit         1           Electrical data   Supply         Coperating voltage AC max.           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication LED         no           Installation   Connection         Stoping [ength (jacket)           Pollution protection   Electrical         Additional condition protectinal egree		
ECLASS-12.0         27060311           ETM-5.0         EC001855           customs tarlif number         85444290           GTIN         4048879214599           Packaging unit         1           Electrical data   Supply         Coperating voltage AC max.           Operating voltage AC max.         250 V           Operating voltage AC (IL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication LED         no           Installation   Connection         Status           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         2,5 kV           Material orgung (ICC 6064-1)         1           Mechanical data   Material data         Coating olcking           Coating olcking		
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customs tarlff number         85444290           GTIN         4048879214599           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           Diagnostics            Status indication LED         no           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           Coating locking         Nickeled           Coating locking         Nickeled           Coating of fitting         nickel plated           Material gasket         FKM           Locking material         Zinc die-c		
GTIN     4048879214599       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       Diagnostics     Status indication LED       Status indication LED     no       Installation   Connecton     Stripping length (jacket)       20 mm     Mounting set       Mounting set     M12 x 1       Device protection   Electrical       Additional condition protection degree     inserted, sorewed       Pollution Degree     3       Rated surge voltage     2,5 kV       Material group (IEC 60664-1)     1       Material group (IEC 60664-1)		
Packaging unit       1         Electrical data   Supply         Operating voltage AC max.       250 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)       30 V         Current operating per contact max.       4 A         Diagnostics       Status indication LED         Status indication LED       no         Installation   Connection       Stripping length (jacket)         Stripping length (jacket)       20 mm         Mounting set       M12 x 1         Device protection   Electrical       Additional condition protection degree         Iserted, screwed       Pollution Degree         Pollution Degree       3         Rated surge voltage       2,5 kV         Material group (IEC 60664-1)       1         Mechanical data   Material data       Coating of fitting         Coating of fitting       nickel plated         Material gaset       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       Zinc die-casting		
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Operating voltage AC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       Status indication LED       no         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         Coating of fitting       nickel plated         Material group connection       Zinc die-casting         Material grow connection       Zinc die-casting		250 V
Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       Status indication LED       no         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         Coating locking       Nickeled         Coating sterial       FKM         Locking material       Zinc die-casting         Material grow connection       Zinc die-casting		
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Status indication LED       no         Installation   Connection       20 mm         Stripping length (jacket)       20 mm         Mounting set       M12 x 1         Device protection   Electrical       Additional condition protection degree         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         Coating locking       Nickeled         Coating got fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       Zinc die-casting		4 A
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Stripping length (jacket)       20 mm         Mounting set       M12 x 1         Device protection   Electrical       Inserted, screwed         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       Inckeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       Zinc die-casting	Status indication LED	no
Stripping length (jacket)       20 mm         Mounting set       M12 x 1         Device protection   Electrical       Inserted, screwed         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       Inckeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       Zinc die-casting	Installation   Connection	
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       Vickeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting	·	20 mm
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       Vickeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting		
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Pollution Degree       3         Rated surge voltage       2,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       I         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting	•	
Rated surge voltage       2,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       Vickeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting		
Material group (IEC 60664-1)       I         Mechanical data   Material data       Image: Coating locking         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Image: Coating data		
Mechanical data   Material data         Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mounting data		2,0 KV
Coating locking     Nickeled       Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting		
Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting		
Material gasket     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data		
Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Image: Casting		
Material screw connection     Zinc die-casting       Mechanical data   Mounting data		
Mechanical data   Mounting data		
		Zinc die-casting
Mounting method inserted, screwed, Shaking protection		
	Mounting method	inserted, screwed, Shaking protection

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: 2024-05-02



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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	233
Cable Type	3
Jacket Color	gray
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
Conductor type (wire)	strand class 6
Traversing distance (C-track)	10 m @ 25 °C   horizontal
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
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
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

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No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 180 °/m

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