

## M12 male 0° / M8 female 90° A-cod.

PUR 3x0.25 gy UL/CSA+robot 4.5m

Male straight – female 90° Zinc die casting, save-cover coated M12 – M8, 3-pole

Art-No. 7005 - M12/M8 Lite - (plastic hexagonal screw) on request

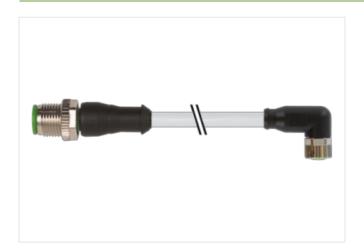
with cable sleeves

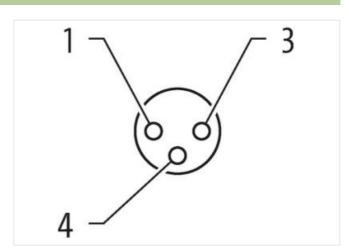
Plastic housings with good resistance against chemicals and oils.

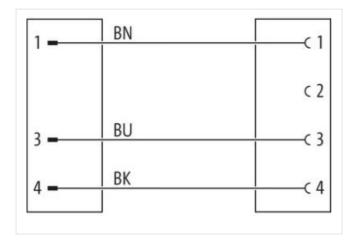
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

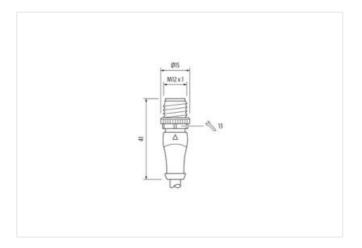
## **Link to Product**

## Illustration



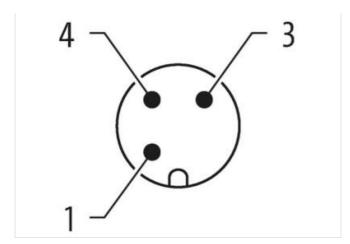








## stay connected





Product may differ from Image











Cable length	4,5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Coding	A
Material	PUR
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Coding	A
Material	PUR
No. of poles	3
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311



stay connected

EGLASS   20   27060311   ECHINA 5   COUNTS   ECHINA 5   COUNTS	ECLASS-11.1	27060311
### ### ### ### ### ### ### ### ### ##	ECLASS-12.0	
State   Stat		
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Packaging unit   1  Electrical data   Supply    Operating voltage AC max.   50 V    Operating voltage AC max.   60 V    Operating voltage AC (FU-listed)   30 V    Operating voltage AC (FU-listed)   30 V    Ourrent operating protego CU-listed)   30 V    Ourrent operating per contact max.   4 A    Device protection   Electrical    Publish Degree   3    Radia surge voltage   1,5 kV    Material group (EC 60064-1)   1  Mechanical data   Material data    Coulting inusing   Copper alley    Coulting flousing   Safe-cover coated    Coulting flousing   Safe-cover coated    Coulting inusing   Copper alley    Coulting flousing   Zinc dis-casting    Mechanical data   Material group    Material group (EC 60064-1)   I    Mechanical data   Material data    Coulting inusing   Copper alley    Coulting flousing   Safe-cover coated    Coulting inusing   Zinc dis-casting    Mechanical data   Material group    Mechanical data   Material group    Mechanical data   Mounting data    Mounting methol   Zinc dis-casting    Mounting methol   Zinc d	GTIN	
Fleetrical data   Supply  Operating valtage AC max.  Operating valtage CC max.  Operating valtage CC max.  Operating valtage CC (UL-listed)  30 V  Operating valtage CC (UL-listed)  Additional condition protection degree  Inserted, screwed  Pollution Degree  3 Rated surge valtage  1,5 x V  Material group (IEC 6064-1)  I  Coating footing  Coating footing  Coating footing  Coating footing  Safe-cover coated  Coating of fitting  nickel plated  Material group (IEC 6064-1)  Inserted, screwed  Pollutary  Coating plated  Material group (IEC 6064-1)  I  Coating footing  Safe-cover coated  Coating of fitting  nickel plated  Material gasket  ENA  Coating plated  Material gasket  I FNA  Coating plated  Material screw connection  Znc die-casting  Material screw connection  Machanical data   Mourting  Material screw connection  Environmental characteristics   Climatic  Coating interperature max.  425 °C  Operating temperature max.  435 °C  Additional condition interperature or any  depending on catelo 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.  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), DIN EN 81076-2-114 (M8)  Installation   Cable  Cable identification   Survey		
Operating voltage AC max. 50 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V Operating voltage DC UL sites of 1 30 V Operating temperature max. 85 °C Operating temperature max. 85 °		
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Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge vollage 1,5 kV  Material group (IEC 80684-1) 1  Machanical data   Material data  Coating housing Copper alloy Coating forting Safe-cover coated Coating of fitting nickel plated  Material gasket FKM Coating from Safe-cover coated Coating of fitting nickel plated  Material gasket FKM Coating forting nickel plated  Material gasket FKM Coating forting nickel plated  Material gasket FKM Coating forting nickel plated  Material gasket FKM Coding material Zimo die-casting  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting  Material properature max 85 °C  Operating temperature max. 85 °C  Operating temperature max. 85 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important Installation notes  Note on bending radius Attentions Cosenve 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), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable identification 250  Cable Type 5  Saleket Color gray Type of Certificate CURus  Amount stranding 1  Fraversing distance (C+rack) 5 m @ 25 °C   Indiroztental  Callele wight 26.4 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  Basic Cadmiunt-free, CFC-free, halogen-free, silicone-free		70
Pollution Degree 3 Rated surge voltage 1,5 kV  Mechanical data   Material group (IEC 60684-1)  Mechanical data   Material data  Coating housing Copper alloy  Coating locking safe-cover coated  Coating forking inckel plated  Material gasket FKM  Locking material  Material gasket FKM  Mounting material  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min. 25° C  Operating temperature min. 45° C  Operating temperature many depending on cable quality  Important installation notes  Note on strain reliel Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  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), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable Type 5  Lacker Color gray  Type of Certificate Culture  Cable identification C  Expression of Certificate Culture  Cable identification C  Expression of Certificate Culture  Cable identification C  Expression of Certificate Culture  Carlos of Cert		
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Material group (IEC 60664+1)  Mechanical data   Material data  Coating housing Copper alloy  Coating loking safe-cover coated  Coating of fitting nickel plated  Material gasket FKM  Material gasket FKM  Material gasket Incide-casting  Material screw connection Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, Screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, Screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, Screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, Screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, Screwed, Shaking protection  Attention, Screwed, Shaking protection  Attention, Screwed, Shaking protection  Mechanical data   Mounting data  Mounting method Inserted, Screwed, Shaking protection  Attention,		
Coating housing   Copper alloy   Safe-cover coated   Coating footing   Safe-cover coated   Coating of titing   Rickel plated   Material gasket   FKM   Locking material   Zinc die-casting   Material gasket   FKM   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 min.   25 °C   Operating temperature man.   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), Din En 61076-2-114 (M8)   Installation   Cable   Cable identification   Cable identification   Cable identification   Cable (Color   gray   Type of Certificate   cURus   Amount stranding   1   Stranding   3 wires twisted   Wire arrangement   brown, black, blue   Traversing distance (C-track)   5 m @ 25 °C   horizontal   Cable weigth   26,4 g/m   Material jacket   PUR   Freedom from ingredients (jacket)   58 ± 3 Shore D   Freedom from ingredients (jacket)   4,3 mm		
Coating housing Copper alloy Coating locking safe-cover coated Coating of litting nickel plated Material gasket FKM Locking material Zinc die-casting Material screw connection Zinc die-casting Meterial part of the more discussion Zinc discussion Zinc die-casting Meterial part of the more discussion Zinc Zinc Zinc Zinc Zinc Zinc Zinc Zin		<u> </u>
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Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min.	Coating of fitting	nickel plated
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Mechanical data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min.	Locking material	Zinc die-casting
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.	Material screw connection	Zinc die-casting
Environmental characteristics   Climatic  Operating temperature min.	Mechanical data   Mounting data	
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Cable Type 5  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 26,4 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) 4,3 mm		
Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 26,4 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) 4,3 mm		
Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 26,4 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) 19,3 mm		
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Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 26,4 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,3 mm		
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Material jacket  PUR  Shore hardness jacket  58 ± 3 Shore D  Freedom from ingredients (jacket)  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket)  4,3 mm		
Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,3 mm		
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,3 mm		
Outer-diameter (jacket) 4,3 mm	Shore hardness jacket	
• ,	Freedom from ingredients (jacket)	
Tolerance outer diameter (sheath) ± 5 %	Outer-diameter (jacket)	
	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	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
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	79 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	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	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min