

## M8 male 90° A-cod. with cable

PUR 4x0.25 ye UL/CSA+drag ch. 10m

Male 90° M8, 4-pole

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

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

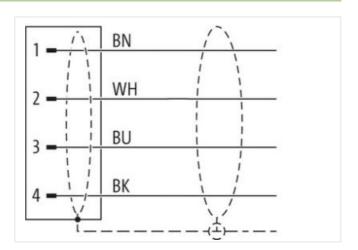
The resistance to aggressive media should be individually tested for your application. Further details on request.

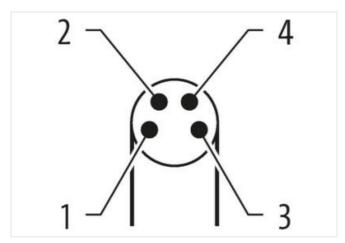
Further cable lengths on request.

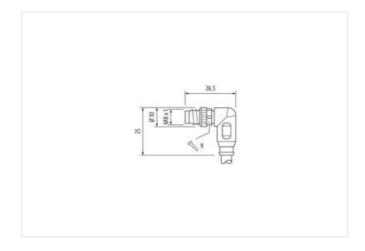
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

10 m

Side 1

Tightening torque

0,4 Nm

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Thread	Mounting method	inserted, screwed	
Tread		· · · · · · · · · · · · · · · · · · ·	
Subtable for corrupated tuble (internal 6)         8,5 mm           Cable outliet         angled           Coding         A           Material         PUR           No. of poles         4           Widh across fatas         SW9           Degree of protection (EN EC 60529)         IP65, IP66, IP67           Side 2           Stripping length (acker)         20 mm           Family construction form         fee cable end           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27000311           ECLASS-9.0         27000311           ECLASS-1.1         27000311           ECLASS-1.2.0         27000311           ECLASS-1.1         27000311           ECLASS-1.1         27000311           ECLASS-1.2.0         27000311           ECLASS-1.2.1         27000311           ECLASS-1.2.1         27000311           ECLASS-1.2.1         27000311           ECLASS-1.2.1         27000311           ECLASS-1.2.1         30           Operating vollage AC max.         50 V <td></td> <td></td>			
Cable outlet         angled           Coding         A           Material         PVR           No. of poles         4           Worth across filas         SW9           Degree of protection (EN IEC 60529)         PSR, IF68K, IP67           Side 2         Stroping length (jacket)           Stroping length (jacket)         20 mm           Family construction form         fee cable and           Commercial data         Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27796311           ECLASS-9.0         27060311           ECLASS-9.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.3         270703011           ECLASS-1.1         270703011           ECLASS-1.2         27060311           ECLASS-1.2         27060311           ECLASS-1.2         27060311			
Coding         A           Material         PUR           Width across flats         SWB           Degree of protection (RTEG 60529)         IPS6, IPS6K, IPS7           Side 2           Strong longift (jackot)         20 mm           Family construction form         fere cable end           Commercial data           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 8.0         27279218           ECLASS 8.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0			
Moderal         PUR           No. of poles         4           Woth across fults         SW9           Degree of protection (ISN IEC 60529)         IP66, IP684, IP67           Stripping length (jacker)         20 mm           Family construction form         free cable and           Commercial data           ECLASS-8.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27790311           ECLASS-9.0         27090311           ECLASS-9.0         27090311           ECLASS-10.1         27090311           ECLASS-11.2         27090311           ECLASS-12.0         27090311           ECLASS-12.0         27090311           ECLASS-12.0         27090311           ECLASS-12.0         27090311           ECLASS-12.0         27090311           ECLASS-12.0         27090311           ECLASS-10.1         30 V           Operating voltage AC max.         50 V           Operating voltage DC max.         50 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           <		<u> </u>	
No. of poles         4           Width across flats         SM9           Degree of proction (N. NEC 60289)         1956, 1964, 1967           Side 2         Stripping larght (jacket)         20 mm           Family construction form         free cable and           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27000311           ECLASS-1.1         27000311           ECLASS-1.2         27000311           ECLASS-1.2.0         27000311           ECLASS-1.2.0         27000311           ETIM-5.0         ECO01855           CASCHAIR (murber)         8544290           GTIN         404873222159           Packaging unit         1           Electrical data (supply)           Operating voltage DC max         60 V           Operating voltage DC max         60 V           Operating voltage DC (IL-lined)         30 V           Operating voltage DC (IL-lined)         30 V           Operating voltage DC (IL-lined)         30 V           Status indication LED         no           Installation   Connectin         Max x			
Width arose flats         SW9           Degree of protection (EN IEC 60529)         IP95, IP66K, IP67           Side 2         Stripping length (jacked)         20 mm           Family construction form         Ireo cable end           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.0			
Pegree of protection (EN IEC 60529)			
Side 2           Singping langith (jacket)         20 mm           Family construction form         fee cable end           Commercial data           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         270603			
Family construction form			
Family construction form	Stripping length (jacket)	20 mm	
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           usations tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         50 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating operating per contact max.         4 A           Distallation   Connection           Status indication LED         no           Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         MB x 1           Device protection   Electrical           Additional condition protection degre	-	free cable end	
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           usations tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         50 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating operating per contact max.         4 A           Distallation   Connection           Status indication LED         no           Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         MB x 1           Device protection   Electrical           Additional condition protection degre	Commercial data		
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         EC01855           customs tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         50 V           Operating voltage AC max.         60 V           Operating voltage AC (IU-listed)         30 V           Operating love active per calculated max         4 A           Bistaliation   Connections         Status indication   Extension		27270218	
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC01855           customs tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data Supply           Operating voltage AC max.         50 V           Operating voltage AC (UL-listed)         30 Y           Operating voltage AC (UL-listed)         30 V           Operating per contact max.         4 A           Diagnostics           Stripping length (jacket)         20 mm           Mounting set         M8 X 1           Device protection   Electrical           Additional condition protection degree           Instead and protection protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Zinc, die-casting           Material screw connection         Brass <td col<="" td=""><td></td><td></td></td>	<td></td> <td></td>		
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           ustoms tariff number         85444290           GTIN         4048079232159           Packaging unit         1           Electrical data   Supply           Operating voltage DC max.         50 V           Operating voltage DC max.         60 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         no           Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         M8 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data           Coating of fitting         nickel			
ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage PC max.         4 A           Diagnostics         50 V           Status indication LED         no           Installation   Connection         V           Stitus indication LED         no           Mounting set         M8 x 1           Device protection   Electrical         Additional condition protection degree           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Zinc die-casting           Material server connection         Brass           Mechanical data   Mounting data         Zinc die-casting           Material server connection         Brass <tr< td=""><td></td><td></td></tr<>			
ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           customs tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply         Feetrical data   Supply           Operating voltage AC max.         50 V           Operating voltage AC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Designation   Connection moderate max.           Status indication LED         no           Installation   Connection           Status indication   Electrical           Addition protection   Electrical           Addition protection   Electrical           Addition protection   Electrical           Addition protection degree         inserted, screwed           Poliution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60684-1)         1           Mechanical data   Material data           Coating locking <td< td=""><td></td><td></td></td<>			
ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         50 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating per contact max.         4 A           Diagnostics           Status indication LED         no           Installation   Connection           Stripping length (jacket)         0 mm           Mounting set         M8 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 6 6664-1)         1           Mechanical data   Material data           Coating locking         Nickeled           Coating locking         Nickeled e-casting           Material screw connection         Brase <td></td> <td></td>			
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879232159           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage AC (UL-listed)         4 A           Design voltage DC (UL-listed)           Notational Condition DED         no           Installation [Connection           Stripping length (jacket)         20 mm           Mounting set         M8 x 1           Device protection   Electrical           Additional condition protection degree         3           Rated surge voltage         1,5 kV           Mechanical data   Material data			
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Pelectrical data   Supply   Supprise   Sup	Packaging unit		
Operating voltage DC max. 60 V 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 M8 x 1  Device protection   Electrical Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) I  Mechanical data   Material data Coating locking fitting nickel plated Locking material Zinc die-casting Material screw connection Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic  Environmental characteristics   Climatic  Deparating temperature min25 °C			
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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         M8 x 1           Device protection   Electrical           Additional condition protection degree           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Operating temperature min.         -25 °C		30 V	
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Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M8 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material condition brotection degree inserted, screwed  Material screw connection Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		no	
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Mounting set  M8 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 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 Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		00	
Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 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 Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C			
Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 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 Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		IVIQ A I	
Pollution Degree 3 Rated surge voltage 1,5 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 Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Device protection   Electrical		
Rated surge voltage 1,5 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 Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		<u> </u>	
Material group (IEC 60664-1)  Mechanical data   Material data  Coating locking  Nickeled  Coating of fitting  nickel plated  Locking material  Zinc die-casting  Material screw connection  Brass  Mechanical data   Mounting data  Mounting method  inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C			
Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		1,5 kV	
Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Material group (IEC 60664-1)	<u> </u>	
Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C			
Locking material  Material screw connection  Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C			
Material screw connection Brass  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	·		
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C			
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		Brass	
Environmental characteristics   Climatic  Operating temperature min25 °C			
Operating temperature min25 °C			
	Environmental characteristics   Climatic		
Operating temperature max. 85 °C	- <u></u>		
	Operating temperature max.	85 °C	

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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	<b>Attention:</b> 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 61076-2-104 (M8)
Installation   Cable	
wire arrangement	brown, black, blue, white
Cable identification	031
Cable Type	3
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires twisted
wire arrangement	brown, black, blue, white
Cable weigth	33 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)	4.5 mm
Folerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1,25 mm
	· · · · · · · · · · · · · · · · · · ·
Outer diameter tolerance core insulation	± 5 % 70 ± 5 Shore D
Shore hardness wire insulation	
ngredient 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	3,6 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 - acket)	2,5 kV @ 60 s
fin. 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Dil 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
Fraversing distance (C-track)	10 m @ 25 °C   horizontal
Fravel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.

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## Product-PDF for Article 7000-08031-0311000



Torsion stress ± 180 °/m

Torsion speed 35 cycles/min