

## M12 male 0° / M8 female 90° A-cod.

PUR 4x0.25 ye UL/CSA+drag ch. 13m

Male straight – female 90°

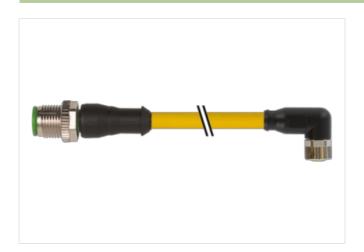
M12 - M8, 4-pole

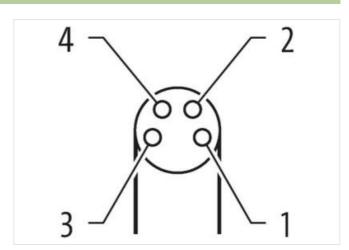
Plastic housings with good resistance against chemicals and oils.

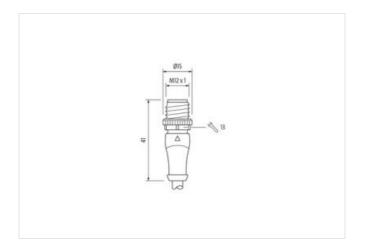
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## **Link to Product**

## Illustration











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Product may differ from Image











Cable length	13 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Cable outlet	straight
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW13
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal Ø)	6,5 mm
Cable outlet	angled
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
Commercial data	
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

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customs tariff number	85444290	
GTIN	4048879160674	
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 DC (UL-listed)	30 V	
Current operating per contact max.	4 A	
Device protection   Electrical		
Degree of protection (EN IEC 60529)	IP65, IP67, IP66K	
Additional condition protection degree	inserted, screwed	
Pollution Degree	3	
Rated surge voltage	1,5 kV	
Material group (IEC 60664-1)	T	
Mechanical data   Material data		
Coating locking	Nickeled	
Coating of fitting	nickel plated	
Color housing	black	
Color contact carrier	green	
Locking material	Zinc die-casting	
Material screw connection	Zinc die-casting	
Mechanical data   Mounting data		
Mounting method	inserted, screwed, Shaking protection	
Environmental characteristics   Climatic		
Operating temperature min.	-25 °C	
Operating temperature max.	85 °C	
Additional condition temperature range	depending on cable quality	
Important installation notes		
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	
Conformity		
Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)	
Installation   Cable		
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	
Traversing distance (C-track)	10 m @ 25 °C   horizontal	
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	
Tolerance outer diameter (sheath)	±5%	
Material wire insulation	PP	
Amount wires	4	

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Amount strands (wire)  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -		
Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -		
Amount strands (wire)  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -	nium-free CFC-free halogen-free silicone-free	
Diameter of single wires  O,1 mm  Conductor crosssection (wire)  Material conductor wire  Stranded coppe  Conductor type (wire)  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  3,6 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	
Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -		
Material conductor wire       Stranded copper         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 02         Current load capacity min. wire       3,6 A         Electrical resistance line constant wire       79 Ω/km @ 20         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire -       2,5 kV @ 60 s		
Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 02  Current load capacity min. wire 3,6 A  Electrical resistance line constant wire 79 Ω/km @ 20  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire -		
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Current load capacity (standard)       to DIN VDE 02         Current load capacity min. wire       3,6 A         Electrical resistance line constant wire       79 Ω/km @ 20         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - 2,5 kV @ 60 s)		
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Electrical resistance line constant wire $79 \Omega/\text{km} @ 20$ AC withstand voltage (wire - wire) $2.5 \text{ kV} @ 60 \text{ s}$ Power frequency withstand voltage (wire - $2.5 \text{ kV} @ 60 \text{ s}$	to DIN VDE 0298-4	
AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - 2.5 kV @ 60 s		
Power frequency withstand voltage (wire - 2.5 kV @ 60 s	°C	
jacket) 2,5 kV @ 60 3		
Min. operating temperature (static) -40 °C		
Max. operating temperature (fixed) 80 °C / 90 °C @	10000 h Operation     10000 h Operation	
Operating temperature min. (dynamic) -25 °C		
Operating temperature max. (dynamic) 80 °C / 90 °C @	10000 h Operation	
Flame resistance UL 1581 § 110	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090	
chemical resistance Good, applicati	Good, application-related testing	
Gasoline resistance Good, applicati	Good, application-related testing	
Oil resistance Good, applicati	Good, application-related testing   DIN EN 60811-404	
Bending radius (fixed) 5 x Outer diameters	eter	
Bending radius (dynamic) 10 x Outer diar	neter	
Travel speed (C-track) 10 Mio. @ 25 °	С	
No. of torsion cycles 2 Mio.		
Torsion stress ± 180 °/m		
Torsion speed 35 cycles/min		