

## M12 male 0° / M8 female 90° A-cod. LED

PVC 3x0.25 bk UL/CSA 2m

Male straight – female  $90^{\circ}$ 

M12 – M8, 3-pole

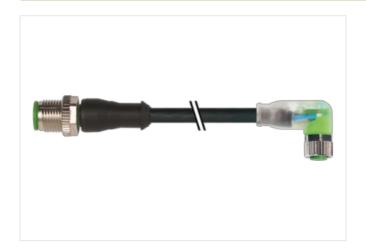
LED (yellow/green)

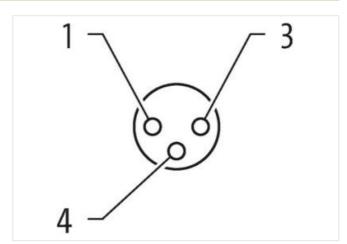
Plastic housings with good resistance against chemicals and oils.

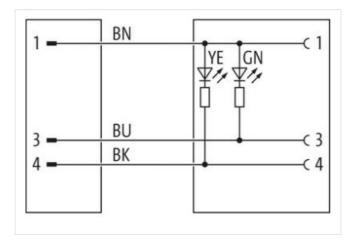
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

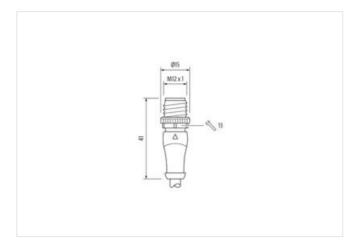
## **Link to Product**

## Illustration





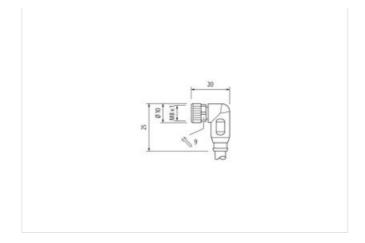






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Product may differ from Image











Cable length	2 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 Ø)	10 mm
Material contact	Copper alloy
Material	PUR
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, 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
Material contact	Copper alloy
Material	PUR
No. of poles	3
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP66K, IP67
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



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ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879159470
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Current consumption max.	5 mA
Diagnostics	
	groop valley.
Status indication LED	green, yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	T'
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 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	endangered by excessive bending forces.
Conformity Product standard	
Product standard	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Product standard  Installation   Cable	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Product standard  Installation   Cable  Cable identification	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Product standard  Installation   Cable  Cable identification  Cable Type	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610 1
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1  3 wires twisted
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1  3 wires twisted  brown, black, blue
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1  3 wires twisted  brown, black, blue  29,37 g/m
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1  3 wires twisted  brown, black, blue  29,37 g/m  PVC
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1  3 wires twisted  brown, black, blue  29,37 g/m  PVC  85 ± 5 Shore A
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  610  1  black  cURus  1  3 wires twisted  brown, black, blue  29,37 g/m  PVC



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Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	14
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
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 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
UV resistance	DIN EN ISO 4892-2 A
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