

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

PUR 3x0.25 bk UL/CSA+robot+drag ch. 0.6m

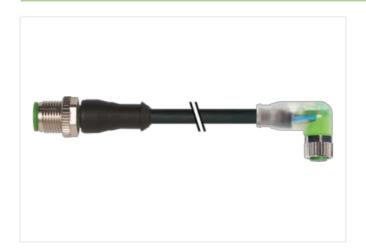
Male straight – female 90° Zinc die casting, save-cover coated M12 – M8, 3-pole LED (yellow/green)

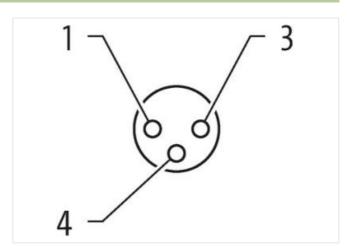
Plastic housings with good resistance against chemicals and oils.

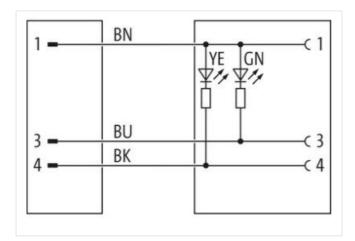
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

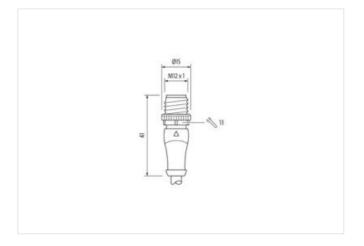
## **Link to Product**

## Illustration



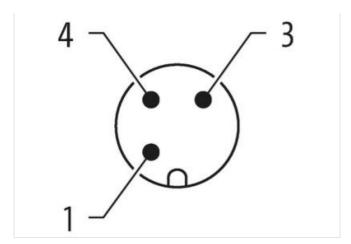


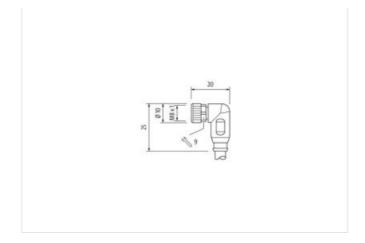






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Product may differ from Image











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 Ø)         6,5 mm           Material contact         Copper alloy           Commercial data	Cable length	0,6 m
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 Ø)         6,5 mm           Material contact         Copper alloy           Commercial data	Side 1	
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 Ø)         6,5 mm           Material contact         Copper alloy           Material contact         Copper alloy           Material contact         Copper alloy           Mothat across flats         SW9           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1	Tightening torque	0,6 Nm
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           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         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-9.0         27060311           ECLASS-10.1         27060311	Mounting method	inserted, screwed
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         PUR           Wightening 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 Ø)         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-9.0         27279218           ECLASS-9.0         27060311         ECLASS-10.1         27060311	Coating contact	gold plated
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 Ø)         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-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311	Family construction form	M12
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           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         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-9.0         27060311           ECLASS-10.1         27060311	Thread	M12 x 1
Material         PUR           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         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-9.0         27060311           ECLASS-10.1         27060311	suitable for corrugated tube (internal Ø)	10 mm
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 Ø) 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-9.0 2720311  ECLASS-10.1 27060311	Material contact	Copper alloy
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 Ø)         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	Material	PUR
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 Ø)         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         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311	No. of poles	3
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 Ø)         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         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311	Width across flats	
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 Ø)         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	Degree of protection (EN IEC 60529)	IP66K, IP67
Mounting method inserted, screwed  Coating contact gold plated  Family construction form M8  Thread M8 x 1  suitable for corrugated tube (internal Ø) 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	Side 2	
Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         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	Tightening torque	0,4 Nm
Family construction form M8  Thread M8 x 1  suitable for corrugated tube (internal Ø) 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	Mounting method	inserted, screwed
Thread M8 x 1 suitable for corrugated tube (internal Ø) 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-9.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060311	Coating contact	gold plated
Suitable for corrugated tube (internal Ø) 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	Family construction form	M8
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	Thread	M8 x 1
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	suitable for corrugated tube (internal Ø)	6,5 mm
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	Material contact	Copper alloy
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	Material	PUR
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	No. of poles	3
Commercial data       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-10.1     27060311	Width across flats	SW9
ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060311	Degree of protection (EN IEC 60529)	IP66K, IP67
ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060311	Commercial data	
ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311	ECLASS-6.0	27279218
ECLASS-9.0 27060311 ECLASS-10.1 27060311	ECLASS-7.0	27279218
ECLASS-10.1 27060311	ECLASS-8.0	27279218
27000011	ECLASS-9.0	27060311
ECLASS-11.1 27060311	ECLASS-10.1	27060311
	ECLASS-11.1	27060311



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FOLACO 10.0	27060311
ECLASS-12.0	
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879159173
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	
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)	I
Mechanical data   Material data	
Coating locking	safe-cover coated
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	
	-25 °C
Operating temperature min.	85 °C
Operating temperature max.  Additional condition temperature range	
, ,	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Installation   Cable	
Cable identification	650
Cable Type	5
Jacket Color	black
040.000	
Type of Certificate	cURus
Type of Certificate	cURus
Type of Certificate Amount stranding	cURus  1 3 wires twisted brown, black, blue
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)	cURus 1 3 wires twisted
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth	cURus  1 3 wires twisted brown, black, blue 10 Mio. @ 25 °C 26,4 g/m
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)	cURus  1 3 wires twisted brown, black, blue 10 Mio. @ 25 °C 26,4 g/m PUR
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth	cURus  1 3 wires twisted brown, black, blue 10 Mio. @ 25 °C 26,4 g/m
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth  Material jacket	cURus  1 3 wires twisted brown, black, blue 10 Mio. @ 25 °C 26,4 g/m PUR
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth  Material jacket  Shore hardness jacket	cURus  1 3 wires twisted  brown, black, blue  10 Mio. @ 25 °C  26,4 g/m  PUR  58 ± 3 Shore D
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	cURus  1 3 wires twisted  brown, black, blue  10 Mio. @ 25 °C  26,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	cURus  1 3 wires twisted brown, black, blue  10 Mio. @ 25 °C  26,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,3 mm
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	cURus  1 3 wires twisted  brown, black, blue  10 Mio. @ 25 °C  26,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free  4,3 mm  ± 5 %
Type of Certificate  Amount stranding  Stranding  wire arrangement  No. of bending cycles (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	cURus  1 3 wires twisted  brown, black, blue  10 Mio. @ 25 °C  26,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free  4,3 mm  ± 5 %  PP

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: 2024-04-19



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 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
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
Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket)	2,5 kV @ 60 s
AC withstand voltage power (wire - wire)	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
UV resistance	DIN EN ISO 4892-2 A
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	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	1 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 360 °/m