

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

PUR 4x0.34 ye UL/CSA+drag ch. 3m

Male straight – female straight M12 – M12, 4-pole

2× LED (PNP), (NPN) on request

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils.

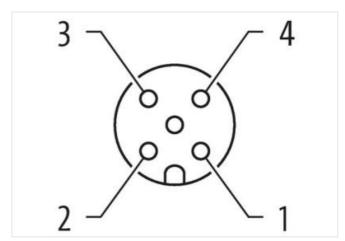
The resistance to aggressive media should be individually tested for your application. Further details on request.

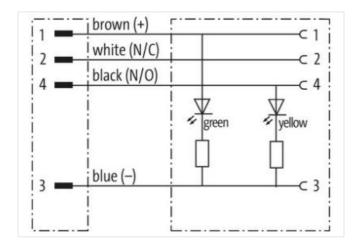
Further cable lengths on request.

## **Link to Product**

## Illustration





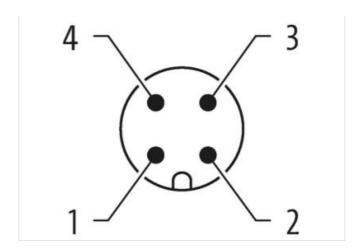






stay connected





Product may differ from Image



Cable length





3 m





Mounting method   Inserted, screwed	Cable leligili	3111
Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A Material PUR Width across flats SW13 Deciding V12 Tighening torque 0,6 Nm Mounting method inserted, screwed Family construction form M12 Tithead M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A Material PUR Width across flats SW13 Deciding A M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A Material PUR Width across flats SW13 Commercial date ECLASS-6.0 27061801 ECLASS-7.0 27061801 ECLASS-8.0 27061801 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060315 ECLASS-12.0 ECU01855 coustoms tariff number 85444290 GTIN 4048879772228	Side 1	
Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Commercial date           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         ECO01885           coustoms tariff number         85444290           GTIN         4048879772228	Tightening torque	0,6 Nm
Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm  Coding A Material PUR  Width across flats SW13  Degree of protection (EN IEC 60529) IP65, IP66K, IP67  Side 2  Tightening torque 0,6 Mm Mounting method inserted, screwed  Family construction form M12  Thread M12 x 1  suitable for corrugated tube (internal Ø) 10 mm  Coding A Material PUR  Width across flats SW13  Commercial data  ECLASS-6.0 27061801  ECLASS-9.0 27061801  ECLASS-9.0 27061801  ECLASS-1.1 27060311  ECLASS-1.1.1 27060311  ECLASS-1.2.0 EC001855  customs tariff number 8544290  GTIN 4048879772228	Mounting method	inserted, screwed
suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-9.0         27061801           ECLASS-9.0         27061801           ECLASS-1.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27061815           coustoms tariff number         85444290           GTIN         4048879772228	Family construction form	M12
Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           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           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-9.0         27061801           ECLASS-9.0         27061801           ECLASS-1.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           coustoms tariff number         85444290           GTIN         4048879772228	Thread	M12 x 1
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Tightening torque           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Unitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-9.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060315           ECIASS-12.0         27060311	suitable for corrugated tube (internal Ø)	10 mm
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Permission of the protection of t	Coding	A
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         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           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Material	PUR
Side 2           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           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-9.0         27061801           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC01855           customs tariff number         85444290           GTIN         4048879772228	Width across flats	SW13
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           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Side 2	
Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060315           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Tightening torque	0,6 Nm
Thread       M12 x 1         suitable for corrugated tube (internal Ø)       10 mm         Coding       A         Material       PUR         Width across flats       SW13         Commercial data         ECLASS-6.0       27061801         ECLASS-7.0       27061801         ECLASS-8.0       27061801         ECLASS-9.0       27061801         ECLASS-10.1       27060311         ECLASS-11.1       27060311         ECLASS-12.0       27060311         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879772228	Mounting method	inserted, screwed
suitable for corrugated tube (internal ∅)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Family construction form	M12
Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Thread	M12 x 1
Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	suitable for corrugated tube (internal $\emptyset$ )	10 mm
Width across flats         SW13           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27061801           ECLASS-8.0         27061801           ECLASS-9.0         27061801           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879772228	Coding	A
Commercial data         ECLASS-6.0       27061801         ECLASS-7.0       27061801         ECLASS-8.0       27061801         ECLASS-9.0       27061801         ECLASS-10.1       27060311         ECLASS-11.1       27060311         ECLASS-12.0       27060311         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879772228	Material	PUR
ECLASS-6.0 27061801  ECLASS-7.0 27061801  ECLASS-8.0 27061801  ECLASS-9.0 27061801  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	Width across flats	SW13
ECLASS-7.0 27061801  ECLASS-8.0 27061801  ECLASS-9.0 27061801  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	Commercial data	
ECLASS-8.0 27061801  ECLASS-9.0 27061801  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	ECLASS-6.0	27061801
ECLASS-9.0 27061801  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	ECLASS-7.0	27061801
ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	ECLASS-8.0	27061801
ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	ECLASS-9.0	27061801
ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	ECLASS-10.1	27060311
ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879772228	ECLASS-11.1	27060311
customs tariff number         85444290           GTIN         4048879772228	ECLASS-12.0	27060311
GTIN 4048879772228	ETIM-5.0	EC001855
	customs tariff number	85444290
Packaging unit 1	GTIN	4048879772228
	Packaging unit	1



stay connected

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
Diagnostics	
Status indication LED	green, yellow
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0.8 kV
Material group (IEC 60664-1)	U,0 KV
	'
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
ocking 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	
COMMUNICATION	
,	DIN FN 61076-2-101 (M12)
Product standard	DIN EN 61076-2-101 (M12)
Product standard Installation   Cable	
Product standard  Installation   Cable  Cable identification	034
Product standard  Installation   Cable  Cable identification  Cable Type	034
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color	034 3 yellow
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate	034 3 yellow cURus
Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	034 3 yellow cURus
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding	034 3 yellow cURus 1 4 wires twisted
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  vire arrangement	034 3 yellow cURus 1 4 wires twisted brown, black, blue, white
Product standard  Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track)	034 3 yellow cURus 1 4 wires twisted brown, black, blue, white 10 m @ 25 °C   horizontal
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  vire arrangement  Traversing distance (C-track)  Cable weigth	034 3 yellow cURus 1 4 wires twisted brown, black, blue, white 10 m @ 25 °C   horizontal 36,3 g/m
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Fraversing distance (C-track)  Cable weigth  Material jacket	034 3 yellow cURus 1 4 wires twisted brown, black, blue, white 10 m @ 25 °C   horizontal 36,3 g/m PUR
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket	034  3 yellow cURus  1 4 wires twisted brown, black, blue, white 10 m @ 25 °C   horizontal 36,3 g/m PUR 90 ± 5 Shore A
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  vire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	034  3  yellow  cURus  1  4 wires twisted  brown, black, blue, white  10 m @ 25 °C   horizontal  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding vire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Duter-diameter (jacket)	034 3 yellow cURus 1 4 wires twisted brown, black, blue, white 10 m @ 25 °C   horizontal 36,3 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,5 mm
Installation   Cable Cable identification Cable Type Cacket Color Cype of Certificate Amount stranding Stranding vire arrangement Craversing distance (C-track) Cable weigth Material jacket Chore hardness jacket Freedom from ingredients (jacket) Cuter-diameter (jacket) Colerance outer diameter (sheath)	034  3  yellow  cURus  1  4 wires twisted  brown, black, blue, white  10 m @ 25 °C   horizontal  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %
Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Duter-diameter (jacket)  Folerance outer diameter (sheath)  Material wire insulation	034  3  yellow  cURus  1  4 wires twisted  brown, black, blue, white  10 m @ 25 °C   horizontal  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %  PP
Installation   Cable Cable identification Cable Type Cacket Color Cype of Certificate Amount stranding Stranding vire arrangement Craversing distance (C-track) Cable weigth Material jacket Chore hardness jacket Freedom from ingredients (jacket) Cuter-diameter (jacket) Colerance outer diameter (sheath)	034  3  yellow  cURus  1  4 wires twisted  brown, black, blue, white  10 m @ 25 °C   horizontal  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %

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: 2024-05-10



Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm²
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	4,8 A
Electrical resistance line constant wire	57 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 § 1090   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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min