

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

PUR 4x0.34 gy UL/CSA+robot+drag ch. 25m

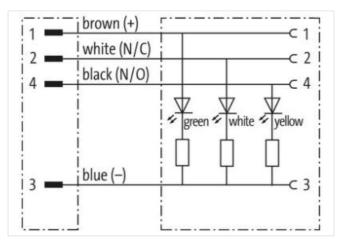
Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

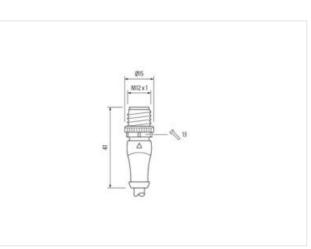
## Link to Product

Illustration





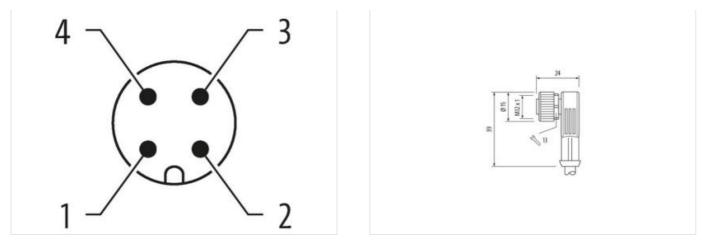




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Product may differ from Image



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       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 x 1       Suitable for corrugated tube (internal Ø)     10 mm       Mounting method     inserted, screwed       Family construction form     M12 x 1       Suitable for corrugated tube (internal Ø)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     SW12 x 1       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27060311       ECLASS-10.1     27060311       ECLASS		
Taylening brque     0.8 Nm       Mounting method     inserted, screwed       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal O)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP66K, IP67       Sile 2	Cable length	25 m
Munting method     inserted, screwed       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal 0)     10 mm       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       Tightening torque     0.6 Mm       Mounting method     inserted, screwed       Family construction form     M12 x 1       suitable for corrugated tube (internal 0)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     SU7279218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLAS	Side 1	
Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       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 x 1       Suitable for corrugated tube (internal Ø)     10 mm       Material     PUR       Width across flats     SW13       Suitable for corrugated tube (internal Ø)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     PUR       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27260311       ECLASS-8.0     27060311       ECLASS-8.1.1     27060311       ECLASS-8.12.0     27060311       ECLASS-8.12.0     27060311       ECLASS-8.12.0     27060311       ECLASS-8	Tightening torque	0,6 Nm
Thread     M12 x 1       suitable for corrugated tube (internal 0)     10 mm       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 x 1       Suitable for corrugated tube (internal 0)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     SW13       ECLASS-0.0     27279218       ECLASS-7.0     27279218       ECLASS-7.0     27279218       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       G	Mounting method	inserted, screwed
Statubile     10 mm       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       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP66, IP66K, IP67       Commercial data     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP66K, IP67       Commercial data     PUR       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-1.1     27060311       ECLASS-1.2.0     27060311       ECLASS-1.2.0     27060311       ECLASS-1.2.0     27060311       ECLASS-1.2.0     27060311       ECLASS-1.2.0     27060311       ECLASS-1.2.0     27060311	Family construction form	M12
Material     PUR       Width across filats     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       Material     PUR       Width across filats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     ECLASS-6.0       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-1.1     27060311       ECLASS-1.2     27060311       ECLASS-1.2.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Thread	M12 x 1
With across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Side 2     Ifghening torque     0,6 Nm       Mounting method     inserted, screwed       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Meterial     PUR       With across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     ECLASS-6.0       ECLASS-7.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-10.1     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311 </td <td>suitable for corrugated tube (internal <math>\emptyset</math>)</td> <td>10 mm</td>	suitable for corrugated tube (internal $\emptyset$ )	10 mm
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       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-10.1     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     ECO01855       coustoms tariff number     85444290       GTIN     4048879696777       Packaging unit     1	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 0)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     27279218       ECLASS-6.0     27279218       ECLASS-7.0     272600311       ECLASS-8.0     272600311       ECLASS-10.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC0011855       coustoms tariff number     85444290       GTIN     4048879696777       Packaging unit     1	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       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     27279218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-9.0     27279218       ECLASS-9.0     27260311       ECLASS-9.0     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	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       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     ECLASS-6.0       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       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Side 2	
Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     Z7279218       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       ECLASS-12.0     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Tightening torque	0,6 Nm
Inread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, 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       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC0011855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Mounting method	inserted, screwed
suitable for corrugated tube (internal Ø)     10 mm       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, 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       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Family construction form	M12
Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     27279218       ECLASS-6.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-9.0     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Thread	M12 x 1
Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     27279218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-9.0     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	suitable for corrugated tube (internal $\emptyset$ )	10 mm
Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     E       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       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Material	PUR
Commercial data     27279218       ECLASS-6.0     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       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	Width across flats	SW13
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     customs tariff number   85444290     GTIN   4048879696777     Packaging unit   1	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
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     customs tariff number   85444290     GTIN   4048879696777     Packaging unit   1	Commercial data	
ECLASS-8.0   27279218     ECLASS-9.0   27060311     ECLASS-10.1   27060311     ECLASS-11.1   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879696777     Packaging unit   1	ECLASS-6.0	27279218
ECLASS-9.0   27060311     ECLASS-10.1   27060311     ECLASS-11.1   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879696777     Packaging unit   1	ECLASS-7.0	27279218
ECLASS-10.1   27060311     ECLASS-11.1   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879696777     Packaging unit   1	ECLASS-8.0	27279218
ECLASS-11.1   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879696777     Packaging unit   1	ECLASS-9.0	27060311
ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	ECLASS-10.1	27060311
ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879696777       Packaging unit     1	ECLASS-11.1	27060311
customs tariff number 85444290   GTIN 4048879696777   Packaging unit 1	ECLASS-12.0	27060311
GTIN     4048879696777       Packaging unit     1	ETIM-5.0	EC001855
Packaging unit 1	customs tariff number	85444290
	GTIN	4048879696777
Electrical data   Supply	Packaging unit	1
	Electrical data   Supply	

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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, white, 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)		
Mechanical data   Material data		
Coating locking	safe-cover coated	
Coating of fitting	nickel plated	
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	
Conformity		
Product standard	DIN EN 61076-2-101 (M12)	
Installation   Cable		
Cable identification	254	
Cable Type	5	
Jacket Color		
Type of Certificate	gray cURus	
Amount stranding	1	
Stranding	4 wires twisted	
wire arrangement	brown, black, blue, white	
No. of bending cycles (C-track)	10 Mio. @ 25 °C	
Cable weigth	36,3 g/m	
Material jacket	PUR	
Shore hardness jacket	58 ± 3 Shore D	
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	
Outer-diameter (jacket)	4,7 mm	
Tolerance outer diameter (sheath)	±5%	
Material wire insulation	РР	
Amount wires	4	
Outer diameter insulation	1,25 mm	
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)	42	
Diameter of single wires	0,1 mm	
Conductor crosssection (wire)	0,34 mm <sup>2</sup>	
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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	4,8 A
Electrical resistance line constant wire	60 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
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	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

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