

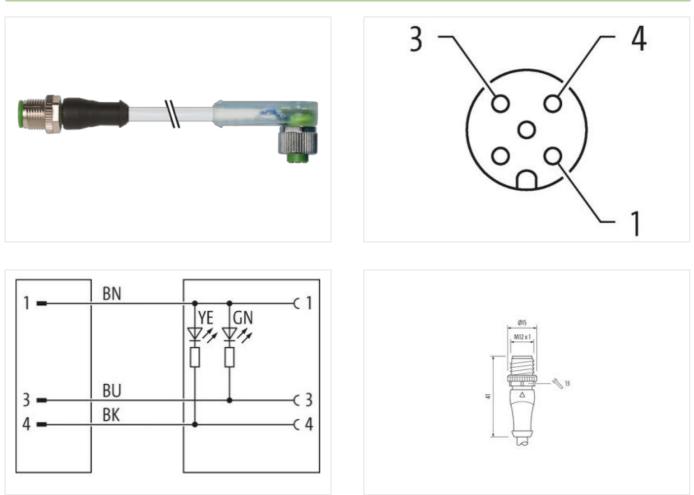
## M12 male 0° / M12 female 90° A-cod. LED

PUR 3x0.34 gy UL/CSA+drag ch. 10m

Male straight – female 90° M12 – M12, 3-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.

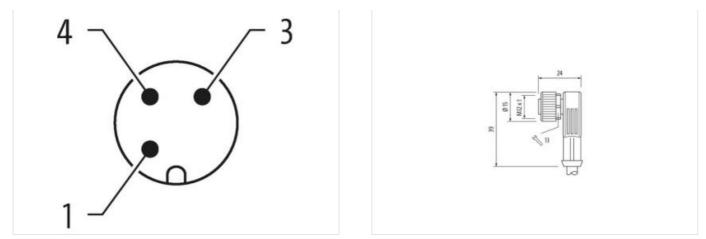
## Link to Product





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Product may differ from Image



Side 1           Tightening torque         0.6 Nm           Wourning method         inserted, screwed           Family construction form         M12           Tinnad         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Waterial         PUR           With across flats         SW13           Degree of protection (EN IEC 60529)         IP66, IP667, IP67           Side 2            Tightening torque         0.6 Nm           Wourning method         inserted, screwed           Family construction form         M12           Tightening torque         0.6 Nm           Wourning method         inserted, screwed           Family construction form         M12 x 1           Suitable for corrugated tube (internal Ø)         10 mm           Waterial         PUR           With across flats         SW13           Connercial data         27279218           ECLASS-0         27279218           ECLASS-0         27279218           ECLASS-10.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           <		
Injenering torque         0.6 Nm           Wounting method         inserted, screwed           armily construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal O)         10 mm           Watarial         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2            Tightening forque         0.6 Nm           Wounting method         inserted, screwed           armily construction form         M12           Tightening forque         0.6 Nm           Wouting method         inserted, screwed           armily construction form         M12 x 1           Suitable for corrugated tube (internal O)         10 mm           Watarial         PUR           With across flats         SW13           Commercial data         SW13           Colass-6.0         27279218           Colass-7.0         27279218           Colass-8.0         27279218           Colass-8.10.1         27060311           Colass-1.1.1         27060311           Colass-1.1.1         27060311           Colass-1.1.1         27060311	Cable length	10 m
Wounting method         inserted, screwed           amily construction form         M12           Thread         M12 x 1           uitable for corrugated tube (internal Ø)         10 mm           Waterial         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2            Tightening torque         0, 6 Nm           Wounting method         inserted, screwed           amily construction form         M12 x 1           Side J            Thread         M12 x 1           Suitable for corrugated tube (internal Ø)         10 mm           Material         PUR           Width across flats         SW13           Commercial data         PUR           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27269218           ECLASS-7.0         27269218           ECLASS-7.0         27269218           ECLASS-7.0         27269218           ECLASS-7.0         27060311           ECLASS-7.0         27060311           ECLASS-7.0	Side 1	
Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Vaterial         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Immediate across flats           Side 2         Immediate across flats           Side 1         Immediate across flats           Mounting method         inserted, screwed           amily construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Vaterial         PUR           Width across flats         SW13           Commercial data         Z7279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0.1         27060311           ECLASS-7.0         27260311           ECLASS-7.0         27260311           ECLASS-7.0         27279218           ECLASS-7.0         27060311           ECLASS-7.0         27060311           ECLASS-7.0         27060311	Tightening torque	0,6 Nm
Thread         M12 x 1           uuitable for corrugated tube (internal 0)         10 mm           Vaterial         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Tightening torque           Unity method         inserted, screwed           amily construction form         M12 x 1           Valuatei al         PUR           Vidth across flats         SW13           Commercial data         PUR           Vidth across flats         SW13           Commercial data         PUR           Vidth across flats         SW13           Commercial data         27279218           ECLASS-6.0         27279218           CCLASS-7.0         27279218           CCLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0	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           Side 2         Image: Step 10 (Step 10)           Wouting method         inserted, screwed           amily construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Vaterial         PUR           Wouting method         10 mm           suitable for corrugated tube (internal Ø)         10 mm           Vaterial         PUR           ScicASS-7.0         27279218           CCLASS-7.0         27279218           CCLASS-7.0         27279218           CCLASS-7.0         27260311           CCLASS-7.0         27260311           CCLASS-7.0         27060311	Family construction form	M12
Value         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         IP65, IP66K, IP67           Side 2         IP68, IP66K, IP67           Side 1         Inserted, screwed           amily construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Vidta across flats         SW13           Commercial data         PUR           ECLASS - 0.         27279218           ECLASS - 0.         27279218           ECLASS - 0.         27279218           ECLASS - 1.1         27060311           ECLASS - 1.2	Thread	M12 x 1
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         IP65, IP66K, IP67           Tightening torque         0.6 Nm           Wounting method         inserted, screwed           amily construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Waterial         PUR           Width across flats         SW13           Commercial data         ECLASS-6.0           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         E0001155           customs tariff number         85444290           Sutsoms tariff number         85444290           STIN         4048879171052           Packaging unit         1	suitable for corrugated tube (internal $\emptyset$ )	10 mm
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Ifghtening 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           With across flats         SW13           Commercial data         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27060311           ECLASS-10.1         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           STIN         4048879171052           Packaging unit         1	Material	PUR
Side 2           Fightening torque         0,6 Nm           Wounting 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           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-1.0         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           customs tariff number         85444290           GTIN         4048879171052           Packaging unit         1           Electrical data   Supply         1	Width across flats	SW13
Tightening torque         0,6 Nm           Wounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Waterial         PUR           Width across flats         SW13           Commercial data         EQLASS-6.0           EQLASS-7.0         27279218           EQLASS-8.0         27279218           EQLASS-8.0         27279218           EQLASS-8.0         27279218           EQLASS-8.0         27260311           EQLASS-10.1         27060311           EQLASS-10.1         27060311           EQLASS-12.0         27060311           EQLASS-12.0         27060311           EQLASS-12.0         27060311           EQLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879171052           Packaging unit         1	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Wounting 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           Commercial data         27279218           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         ECO01855           sustoms tariff number         85444290           3TIN         4048879171052           Packaging unit         1           Electrical data   Supply         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           Commercial data         ECLASS-6.0           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           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           sustoms tariff number         85444290           3TIN         4048879171052           Packaging unit         1           Electrical data   Supply         1	Tightening torque	0,6 Nm
Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Material         PUR           Width across flats         SW13           Commercial data         ECLASS-6.0           27279218         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         ECO01855           customs tariff number         85444290           GTIN         4048879171052           Packaging unit         1           Electrical data  Supply         1	Mounting method	inserted, screwed
suitable for corrugated tube (internal Ø)         10 mm           Material         PUR           Width across flats         SW13           Commercial data         27279218           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879171052           Packaging unit         1           ELECTICAL data   Supply         1	Family construction form	M12
Material         PUR           Width across flats         SW13           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         ECO01855           sustoms tariff number         85444290           3TIN         4048879171052           Packaging unit         1           ELEctrical data   Supply	Thread	M12 x 1
Width across flats         SW13           Commercial data         27279218           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           sustoms tariff number         85444290           3TIN         4048879171052           Packaging unit         1           ELectrical data   Supply         1	suitable for corrugated tube (internal $\emptyset$ )	
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           customs tariff number         85444290           GTIN         4048879171052           Packaging unit         1           Electrical data   Supply         1	Material	PUR
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       4048879171052         Packaging unit       1	Width across flats	SW13
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         coustoms tariff number       85444290         GTIN       4048879171052         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         3TIN       4048879171052         Packaging unit       1	ECLASS-6.0	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       4048879171052         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       4048879171052         Packaging unit       1	ECLASS-8.0	27279218
ECLASS-11.1       27060311         ECLASS-12.0       27060311         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879171052         Packaging unit       1	ECLASS-9.0	27060311
ECLASS-12.0       27060311         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879171052         Packaging unit       1	ECLASS-10.1	27060311
ETIM-5.0       EC001855         customs tariff number       8544290         GTIN       4048879171052         Packaging unit       1         Electrical data   Supply	ECLASS-11.1	27060311
customs tariff number     8544290       GTIN     4048879171052       Packaging unit     1       Electrical data   Supply	ECLASS-12.0	27060311
GTIN         4048879171052           Packaging unit         1           Electrical data   Supply         V	ETIM-5.0	EC001855
Packaging unit 1 Electrical data   Supply	customs tariff number	85444290
Electrical data   Supply	GTIN	4048879171052
	Packaging unit	1
	Electrical data   Supply	
	Operating voltage DC	24 V

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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)	
Mechanical data   Material data	
Coating locking	Nickeled
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
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)
Installation   Cable	
Cable identification	233
Cable Type	3
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	brown, black, blue
Cable weigth	29,7 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)	4,1 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42
Amount strands (wire)	

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Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6 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	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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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