

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

PUR 4x0.34 bk UL/CSA+robot+drag ch. 0.8m

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**

Male

Female





Product may differ from Image



\* only for products with UL/CSA approved cable

**Form**

Form 40341

**Technical Data**

Operating voltage	24 V DC $\pm 25\%$
Operating voltage (only UL listed)	max. 30 V DC
Rated surge voltage	0.8 kV
Operating current per contact	max. 4 A
Material group	IEC 60664-1, category I
LED display	green, yellow, white
Locking of ports	Screw thread (M12x1 mm) recommended torque 0.6 Nm, self-securing
Compression gland	M12 (SW13)
Protection	IP65, IP66K, IP67 inserted and tightened (EN 60529)
Material	PUR
Locking material	Zinc die casting, matte nickel plated
suitable for corrugated tube (internal $\varnothing$ )	10 mm

**General data**

Standards	DIN EN 61076-2-101 (M12)
Pollution Degree	3
Temperature range	-25...+85 °C, depending on cable quality

**Cables**

No./diameter of wires	4x 0.34 mm <sup>2</sup>
Wire isolation	PP (br, wh, bl, bk)
C-track properties	10 Mio.
Outer $\varnothing$	4.7 mm $\pm 5\%$
Cable identification	654
Cable Type	5 (PUR schweißfunkenbeständig)
Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
Cable weight [g/m]	36,3 g
Material (wire)	Cu wire, bare
Resistor (core)	max. 60 $\Omega$ /km (20 °C)
Single wire $\varnothing$ (core)	0.1 mm
Construction (core)	42x 0.1 mm (multi-strand wire class 6)

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Diameter (core)	4× 0.34 mm <sup>2</sup>
AWG	similar to AWG 22
Material (wire isolation)	PP
Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Shore hardness (wire isolation)	74 ±3 D
Wire-Ø incl. isolation	1.25 mm ±5%
Color/numbering of wires	br, bk, bl, wh
Stranding combination	4 wires twisted
Shield	no
Material (jacket)	PUR
Material property (jacket)	CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant
Shore hardness (jacket)	58 ±3 D
Outer-Ø (jacket)	4.7 mm ±5%
Color (jacket)	black
Jacket Color	black
chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
thermal resistance	flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant
Nominal voltage	300 V AC
Test voltage	2500 V AC
Current load capacity	to DIN VDE 0298-4
Temperature range (fixed)	-40...+80 °C
Temperature range (fixed)	-40...+80 °C, (+90 °C at max. 10 000 operating hours)
Temperature range (mobile)	-25...+80 °C
Temperature range (mobile)	-25...+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (fixed)	5× outer Ø
Bend radius (moving)	10× outer Ø
Bend radius (moving)	10× outer Ø
No. of bending cycles (C-track)	max. 10 Mio. (25 °C)
Travel speed (C-track)	max. 3.3 m/s
Acceleration (C-track)	max. 5 m/s <sup>2</sup>
Torsion stress	±360°/m
No. of torsion cycles	max. 1 Mio. (25 °C)
Torsion speed	35 cycles/min
Material (jacket)	PUR (UL/CSA), welding spark

#### Commercial data

country of origin	DE
customs tariff number	85444290
EAN	4048879345538
eClass	27279218
Packaging unit	1.000