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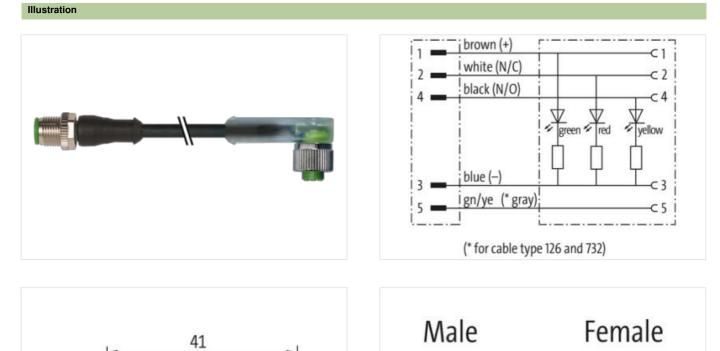
M12 male 0° / M12 female 90° A-cod. LED

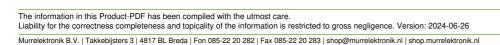
PUR 5x0.34 bk UL/CSA+drag ch. 1m

Male straight – female 90° M12 – M12, 5-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.

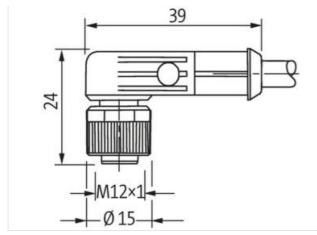
Link to Product

01









Product may differ from Image

	only for products with UL/CSA approved able
Form	
Form	40352
Technical Data	
Operating voltage	24 V DC 225%
Operating voltage (only UL listed)	30 V DC
Rated surge voltage	0.8 kV
Operating current per contact No. of poles	max, 4 A
Material group	IEC 60664-1, category I
Coding LED display	dreen, vellow, red
Led display	
Protection	Screw thread (M12×1 mm) recommended torque 0.6 Nm, self-securing IP65 and IP67 when plugged and screwed down (EN 60529)
Material	
Locking material	Zinc die casting, matte nickel plated
suitable for corrugated tube (internal \emptyset)	10 mm
Compression gland	
General data	
Mounting method	ingerted, tightened
Pollution Degree	3
Temperature range	-25+85 °C, depending on cable quality
Cables	
No./diameter of wires	5× 0.34 mm²
Wire isolation	PP (br, wh, bl, bk, gnye)
C-track properties	10 Mio.
Outer Ø	4.8 mm ±5%
Cable identification	635
Cable Type	3 (PUR)
Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
Cable weight [g/m]	41,8 g
Material wire	Cu wire, bare
Resistor (core)	max. 57 Ω/km (20 °C)
Single wire Ø (core)	0.1 mm

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: 2024-06-26

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Cable babling see frame delivery specifications 7000-0000-001 Diameter (core) 5× 0.34 mm² AWG similar to AWG 22 Material wire isolation PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 70 ±5 D Wire-Q incl. isolation 1.25 mm ±5% Colorizombering of wires br, bk, bl, wh, grye longitudinally striped Stranding combination 5 wires twiste around central filler Sineid no Material jacket PUR Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrohysis and microbial resistant Shore hardness (jacket) 90 ±5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black Color jacket black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) Itermari ersistance flaster bit VOE Co332-2·2 Nominal voltage 300 V AC Test voltage 2500 V AC	Construction (core)	42× 0.1 mm (multi-strand wire class 6)
AWG similar to AWG 22 Material property (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 70 ± 5 D Wire-O incl. isolation 1.25 mm ±5% Color/numbering of wires br, bk, bl, wh, grye longitudinally striped Stranding combination 5 wires twisted around central filler Shoid no Material jacket PUR Material jacket PUR Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolydis and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black Jacket Color black Shore hardness (filed) 300 V AC Test voltage 2500 V AC Current load capacity to DIN VDE 0296-4 Temperature range (fixed) -40480 °C Temperature range (fixed) 5480 °C Temperature range (fixed) 5	Cable labeling	see frame delivery specifications 7000-00000-001
Material wire isolation PP Material property (wire isolation) CFC, halogen, cadmium, silicone- and lead-free Shore hardness (wire isolation) 70 ±5 D Wire-Gincl, Isolation 1.25 mm ±5% Color/numbering of wires br, bk, bl, wh, gnye longitudinally striped Stranding combination 5 wires twisted around central filler Shoild no Material jacket PUR Material property (jacket) CFC, halogen, cadmium, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ±5 A Color jacket black Jacket Color black Jacket Color black Jacket Color black Jacket Color black Test voltage 2500 V AC Current Load capacity to DIN VDE 028-4 Temperature range (fixed) -40+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -	Diameter (core)	5× 0.34 mm ²
Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 70 ±5 D Wire-3 on L. isolation 1.25 mm ±5% Color/numbering of wires br. bk. bl. wh, my program the striped Stranding combination 5 wires twisted around central filler 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 and microbial resistant Shore hardness (jacket) 90 ±5 A Outer-0 (jacket) 43 mm ±5% Color jacket black Jacket Color black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) Itame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2:2 Nominal voltage 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours) Temperature range (fixed) 5 - outer Ø Bend radius (fixed) 5 - outer Ø Bend radius (fixed) 5 - outer Ø	AWG	similar to AWG 22
Shore hardness (wire isolation) 70 ±5 D Wire-Q incl. isolation 1.25 mm ±5%. Color/numbering of wires br, bk, bl, wh, grue longitudinally striped Stranding combination 5 wires twisted around central filler 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 and microbial resistant Shore hardness (jacket) 90 ±5 A Color /acket black Jacket Color black Jacket Color black Jacket Color black Cuter-Q (jacket) 300 V AC Test voltage 2500 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours) Temperature range (fixed) 5×+80 °C, (+90 °C at max. 10 000 operating hours) Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Temperature range (mobile) 5×+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (moving) 10× outer Ø <td< td=""><td>Material wire isolation</td><td>PP</td></td<>	Material wire isolation	PP
Wire-Ø incl. isolation 1.25 mm ±5% Color/numbering of wires br, bk, bl, wh, gnye longitudinally striped Stranding combination 5 wires twisted around central filler Material jacket PUR Material jacket PUR Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C Temperature range (fixed) -40+80 °C Temperature range (mobile) -25+80 °C et at max. 10 000 operating hours) Temperature range (mobile) -25+80 °C Temperature range (mobile) -55+80 °C Temperature range (mobile) -55+80 °C Bend radius (fixed) 5x outer Ø <td>Material property (wire isolation)</td> <td>CFC-, halogen-, cadmium-, silicone- and lead-free</td>	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
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Stranding combination 5 wires twisted around central filler 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 and microbial resistant Shore hardness (jacket) 90 ±5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C Temperature range (fixed) -40+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25.	Wire-Ø incl. isolation	1.25 mm ±5%
Shield no Material jacket PUR Material jacket PUR Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ±5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance filame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C Temperature range (fixed) -40+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 10 m/s ²	Color/numbering of wires	br, bk, bl, wh, gnye longitudinally striped
Material jacket PUR Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black Jacket Color black Outer-Ø (jacket) 90 ± 5 A Outer-Ø (jacket) black Jacket Color black Jacket Color black Outer-Ø (jacket) 900 resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C Temperature range (fixed) -40+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C C Temperature range (mobile) -25+80 °C C Bend radius (moving) <td< td=""><td>Stranding combination</td><td>5 wires twisted around central filler</td></td<>	Stranding combination	5 wires twisted around central filler
Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Ø (jacket) 4.8 mm ±5% Color jacket black Jacket Color black Urrent load capacity to juga soline and chemicals (EN 60811-404) thermal resistance filame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+80 °C Temperature range (fixed) -40+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Temperature range (mobile) -25+80 °C Bend radius (moving) 10× outer Ø	Shield	no
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Outer-Ø (jacket)4.8 mm ±5%Color jacketblackJacket Colorblackchemical resistancegood resistance to oil, gasoline and chemicals (EN 60811-404)thermal resistanceflame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2Nomial voltage300 V ACTest voltage2500 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-40+80 °C, (+90 °C at max. 10 000 operating hours)Temperature range (mobile)-25+80 °CTemperature range (mobile)-25+80 °C, (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Material property (jacket)	
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Jacket Colorblackchemical resistancegood resistance to oil, gasoline and chemicals (EN 60811-404)thermal resistanceflame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2Nominal voltage300 V ACTest voltage2500 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-40+80 °CTemperature range (fixed)-40+80 °C (+90 °C at max. 10 000 operating hours)Temperature range (mobile)-25+80 °C (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Outer-Ø (jacket)	4.8 mm ±5%
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Test voltage2500 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-40+80 °CTemperature range (fixed)-40+80 °C, (+90 °C at max. 10 000 operating hours)Temperature range (mobile)-25+80 °CTemperature range (mobile)-25+80 °C, (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	thermal resistance	flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2
Current load capacityto DIN VDE 0298-4Temperature range (fixed)-40+80 °CTemperature range (fixed)-40+80 °C (+90 °C at max. 10 000 operating hours)Temperature range (mobile)-25+80 °CTemperature range (mobile)-25+80 °C (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Nominal voltage	300 V AC
Temperature range (fixed)-40+80 °CTemperature range (fixed)-40+80 °C, (+90 °C at max. 10 000 operating hours)Temperature range (mobile)-25+80 °CTemperature range (mobile)-25+80 °C, (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Test voltage	2500 V AC
Temperature range (fixed)-40+80 °C, (+90 °C at max. 10 000 operating hours)Temperature range (mobile)-25+80 °CTemperature range (mobile)-25+80 °C, (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Current load capacity	to DIN VDE 0298-4
Temperature range (mobile)-25+80 °CTemperature range (mobile)-25+80 °C, (+90 °C at max. 10 000 operating hours)Bend radius (fixed)5× outer ØBend radius (moving)10× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 10 m/s²Acceleration (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Temperature range (fixed)	-40+80 °C
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Bend radius (moving)10× outer ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 3 m/sAcceleration (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Temperature range (mobile)	-25+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 10 Mio. (25 °C)Travel speed (C-track)max. 3 m/sAcceleration (C-track)max. 10 m/s²Torsion stress±180°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/min	Bend radius (fixed)	5× outer Ø
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Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 10 m/s ² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min	Bend radius (moving)	10× outer Ø
Acceleration (C-track) max. 10 m/s ² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min	No. of bending cycles (C-track)	max. 10 Mio. (25 °C)
Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min	Travel speed (C-track)	max. 3 m/s
No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min	Acceleration (C-track)	max. 10 m/s ²
Torsion speed 35 cycles/min	Torsion stress	±180°/m
	No. of torsion cycles	max. 2 Mio. (25 °C)
Material jacket PUR (UL/CSA)	Torsion speed	35 cycles/min
	Material jacket	PUR (UL/CSA)

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: 2024-06-26

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