

M12 female 90° A-cod. with cable LED

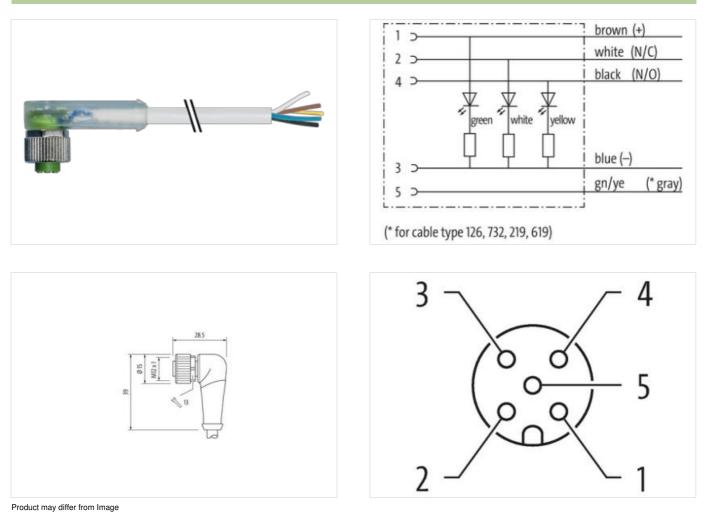
PUR 5x0.34 gy UL/CSA 5m

▲ NOTICE ▲ PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

Female 90° M12, 5-pole 3× LED (PNP) 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





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: 2024-05-04

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Cable length	5 m
Side 1	
Tightening torque	0.6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal \emptyset)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	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	4048879202244
Packaging unit	1
Electrical data Supply	
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)	<u> </u>
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
, 31	

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Note on berding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Contornity DNE N 61076-2-101 (M12) Cable DNE N 61076-2-101 (M12) Cable domification 225 Cable Type 2 (PUR/PCO) Approval (cable) UL (XWM-Style 20549/1731), CSA; CE conform Cable domification 245 Cable domification 64,78 g Material wire Cu wire, bare Resister (core) max. 57 Ωkm (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42 × 0.1 mm (wire dass 6) Diameter (core) 5. 0.34 mm ² WRVG similar to AWG 22 Material wire isolation PVC Material visolation PVC Color/numbering visolation 43 ± 5 D Single more force 5. Wite Visolation Single more force Single more force, matt filter Single more force Single more force, matt filter Single more force Single more force, halogen, cadmium, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistent.<	Important installation notes	
Onlocity endangered by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) Cable Endet standard 225 Cable identification 225 Cable Cable Endet standard U. (AWM-Style 20549/1731), CSA; CE conform Cable weight (g/m) 54,78 g Converted standard Carls of Core) D. In mn Converted standard Carls of Core) 0.1 mm Converted standard Carls of Core) 50.34 mm² Converted standard Dimeter (core) 50.34 mm² Converted standard AWG similar to AWG 22 Converted standard Converted standard AWG Similar to AWG 22 Converted standard Similar to AWG 22 Converted standard CPC-C, candmum-, silicone- and lead-free Converted standard Store hardness stolation 125 mm ±5% Converted standard <th>Note on strain relief</th> <th>Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.</th>	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard DIN EN 61076-2-101 (M12) Cable Cable identification 225 Cable identification 2 (PUR/PVC) Approval (cable) UL (AWM-Style 205491731), CSA; CE conform Cable weight (g/m) 54,78 g Material wire Curwire, bare Resistor (core) max. 57 (Dkm (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 5×.0.34 mm? Opmeter (core) 5×.0.34 mm? WRG similar to AWG 22 Material property wire insulation CFC-, cadmium-, silicone- and lead-free Shore hardness wire isolation 42 s D 1 Vire Ø incl. isolation 1.25 mm ±5% Color/mutbreting of wires br, bk, bl, my, elongitudinally striped Shreel no Material property (jacket) S5 5 A (PVC-under jacket) is 0.04 Outer-Ø (jacket) 50 mm ±5% Color/mutbreting of wires bit 5 A (PVC-under jacket) is 0.04 Material property (jacket) 50 mm ±5% Color jacket gray Color jacket gray Color jacket <t< td=""><td>Note on bending radius</td><td></td></t<>	Note on bending radius	
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Cable weight [g/m] 54,78 g Material wire Cu wire, bare Resistor (core) max. 57 0/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 5× 0.34 mm ² WMG similar to AWG 22 Material invire isolation PVC Material property wire insulation CF-C, cadmium-, silicone- and lead-free Shore hardness wire isolation 43 ±5 D 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 Shield no Material property (jacket) CF-C, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shield no Material jacket PUR/PVC Calor jacket 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 5.0 mm ±5% Color jacket gray chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC	Approval (cable)	UL (AWM-Style 20549/1731), CSA; CE conform
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Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 5× 0.34 mm² AWG similar to AWG 22 Material wire isolation PVC Material wire isolation CFC, cadmium-, silicone- and lead-free Shore hardness wire isolation 43 ±5 D Wire-Ø incl. isolation 1.25 mm ±5% Colorinumbering of wires br, bl, wh, gnye longitudinally striped Stranding combination 5 wires twisted around central filler Shield no Material iproperty (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket) Outer-Ø (jacket) 5.0 mm ±5% Color jacket gray Chernal resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (mobile) -5+80 °C Eanding radius (fixed) 10× outer Ø Bending radius (fixed) 10× outer Ø Bending r	Resistor (core)	max. 57 Ω/km (20 °C)
Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 5× 0.34 mm² AWQ similar to AWG 22 Material property wire insulation PVC Material property wire insulation CFC-, cadmium-, silicone- and lead-free Shore hardness wire isolation 43 ±5 D 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 Shield no 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 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 5.0 mm ±5% Color jacket gray chemical resistant 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 5.0 mm ±5% Color jacket gray chemical resistance good resistance to il, gasoline and chemicals Nominal voltage UL 300 V AC Current load capacity to DIN VDE 0298-4 <tr< td=""><td></td><td></td></tr<>		
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Shore hardness wire isolation43 ±5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, bl, wh, gnye longitudinally stripedStranding combination5 wires twisted around central fillerShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)5.0 mm ±5%Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNomial voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-5+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material wire isolation	PVC
Shore hardness wire isolation43 ±5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, bl, wh, gnye longitudinally stripedStranding combination5 wires twisted around central fillerShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)5.0 mm ±5%Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNomial voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-5+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material property wire insulation	CFC-, cadmium-, silicone- and lead-free
Color/numbering of wiresbr, bk, bl, wh, gnye longitudinally stripedStranding combination5 wires twisted around central fillerShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)Outer-Ø (jacket)5.0 mm ±5%Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-5+80 °CBending radius (fixed)10× outer ØBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Shore hardness wire isolation	
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Stranding combination 5 wires twisted around central filler Shield no Material jacket PUR/PVC 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 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 5.0 mm ±5% Color jacket gray chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Temperature range (mobile) -5+80 °C Bending radius (fixed) 10× outer Ø Bending radius (dynamic) 15× outer Ø No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s	Color/numbering of wires	br, bk, bl, wh, anye lonaitudinally striped
ShieldnoMaterial jacketPUR/PVCMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)5.0 mm ±5%Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	-	
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 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 5.0 mm ±5% Color jacket gray chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Ceurrent load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Bending radius (fixed) 10× outer Ø Bending radius (dynamic) 15× outer Ø No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s	Shield	no
Material property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistantShore hardness jacket80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)Outer-Ø (jacket)5.0 mm ±5%Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material jacket	PUR/PVC
Outer-Ø (jacket)5.0 mm ±5%Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Material property (jacket)	
Color jacketgraychemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Shore hardness jacket	80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)
chemical resistancegood resistance to oil, gasoline and chemicalsNominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Outer-Ø (jacket)	5.0 mm ±5%
Nominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Color jacket	gray
Test voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	chemical resistance	good resistance to oil, gasoline and chemicals
Current load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Nominal voltage	UL 300 V AC
Temperature range (fixed)-30+80 °CTemperature range (mobile)-5+80 °CBending radius (fixed)10× outer ØBending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Test voltage	2000 V AC
Temperature range (mobile) -5+80 °C Bending radius (fixed) 10× outer Ø Bending radius (dynamic) 15× outer Ø No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s	Current load capacity	to DIN VDE 0298-4
Temperature range (mobile) -5+80 °C Bending radius (fixed) 10× outer Ø Bending radius (dynamic) 15× outer Ø No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s	Temperature range (fixed)	-30+80 °C
Bending radius (dynamic)15× outer ØNo. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Temperature range (mobile)	-5+80 °C
No. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Bending radius (fixed)	10× outer Ø
No. of bending cycles (C-track)max. 2 Mio. (25 °C)Travel speed (C-track)max. 3.3 m/s	Bending radius (dynamic)	15× outer Ø
Travel speed (C-track) max. 3.3 m/s	No. of bending cycles (C-track)	max. 2 Mio. (25 °C)
	Travel speed (C-track)	
	Acceleration (C-track)	

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: 2024-05-04

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