

M12 male 0° / M8 female 90° LED

PUR 3x0.25 bk UL/CSA+drag chain 7,5m

Male straight – female 90° M12 – M8, 3-pole LED (yellow/green)

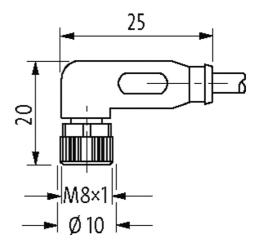
Plastic housings with good resistance against chemicals and oils.

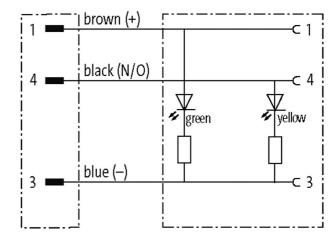
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product

Illustration







Product may differ from Image

Approvals







* only for products with UL/CSA approved cable

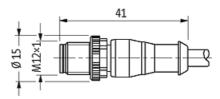
Form	
Form	40641
Technical Data	
Operating voltage	24 V DC ±25%
Operating voltage (only UL listed)	30 V DC
Rated surge voltage	0.8 kV
Operating current per contact	max. 4 A
No. of poles	3
Current consumption	5 mA
Material group	IEC 60664-1, category I
Coding	M12, A-coded
LED display	(yellow/green)
Locking of ports	Screw thread (M8/M12×1 mm) recommended torque 0.4/0.6 Nm, self-securing
Compression gland	M8 (SW9), M12 (SW13)
Protection	IP66K, IP67 inserted and tightened (EN 60529)
Locking material	Zinc die casting, matte nickel plated
Material	PUR
suitable for corrugated tube (internal Ø)	M12 (10 mm); M8 (6.5 mm)
General data	
Standards	DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)
Material (contact)	Copper alloy
Material (contact surface)	Au
Material (gasket)	FKM
Pollution Degree	3
Temperature range	-25+85 °C, depending on cable quality
Cables	
No./diameter of wires	3× 0.25 mm ²
Wire isolation	PP (br, bl, bk)
C-track properties	10 Mio.
Material (jacket)	PUR (UL/CSA)
Outer Ø	4.1 mm ±5%
Bend radius (moving)	10× outer Ø
Temperature range (fixed)	-40+80 °C
Temperature range (mobile)	-25+80 °C
Cable identification	630
Cable Type	3 (PUR)
Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
Cable weight [g/m]	26,40
Material (wire)	Cu wire, bare
Resistor (core)	max. 79 Ω/km (20 °C)
Single wire Ø (core)	
	0.1 mm
Construction (core)	0.1 mm 32× 0.1 mm (multi-strand wire class 6)



Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Material property (wire isolation) 70 ± 5 D Wire-Ø incl. isolation 1.25 mm ± 5% Color/mumbering of wires br, bk, bl Shanding combination 3 wires twisted 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) 4.1 mm ± 5% Cuter-O (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) Termical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) Termical resistance 40 ± M × M 40 ± M × M <th>AWG</th> <th>similar to AWG 24</th>	AWG	similar to AWG 24
Shore hardness (wire isolation) 70 ±5 D Wire-O incl. isolation 1.25 mm ±5% Color/mumbering of wires br, bk, bl Stranding combination 3 wires twisted Sheld no Material group of (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) 4.1 mm ±5% Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) Itemmal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC Test voltage 2500 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) 4080 °C (+90 °C at max. 10 000 operating hours) Temperature range (mobile) 2580 °C (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5x outer Ø Bend radius (fixed) 5x outer Ø Bend radius (moving) 10 × outer Ø Bend radi	Material (wire isolation)	PP
Wire-Q Incl. isolation 1.25 mm ±5% Color/mumbering of Wires br, bk, bl Stranding combination 3 wires twisted Shold no Material (jacket) PUR Material property (jacket) CPC-, halogen, cadmium, allicone- 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) 4.1 mm ±5% Color (jacket) black Hermical 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 Test voltage 2500 V AC Current load capacity to DIN VDE 028-4 Temperature range (fixed) -40480 °C, (+90 °C at max. 10 000 operating hours) Temperature range (mobile) -25480 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5 x outer Ø Bend radius (moving) 10 x outer Ø Bend radius (moving) 10 x outer Ø No. of brorsion cycles (C-track) max. 3 m/s Acceler	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Color/humbering of wires br, bk, bl Stranding combination 3 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. Shore hardness (jacket) 90 ±5 A Outer-Ø (jacket) 4.1 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance to oil, gasoline and chemicals (EN 60811-40	Shore hardness (wire isolation)	70 ±5 D
Stranding combination 3 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 and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Ø (jacket) 4.1 mm ±5% Color (jacket) 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, (+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 Ø Bend radius (moving) 10 × outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 10 mis² Torsion stress ±180° No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min	Wire-Ø incl. isolation	1.25 mm ±5%
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) 4.1 mm ±5% Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FTZ / IEC 60332-2-2 Nominal voltage 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 (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5× 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 m's Acceleration (C-track) max. 3 m's Acceleration (C-track) max. 2 Mio. (25 °C) Torsion speed 35 cycles/min <th< td=""><td>Color/numbering of wires</td><td>br, bk, bl</td></th<>	Color/numbering of wires	br, bk, bl
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) 4.1 mm ± 5% Color (jacket) 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) -4080 °C, (+90 °C at max. 10 000 operating hours) Temperature range (mobile) -2580 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5 volter Ø Bend radius (fixed) 5 volter Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 3 m/s Acceleration (C-track) max. 3 m/s No. of torsion cycles max. 2 Mio. (25 °C) Torsion stees ±180 °/m No. of torsion cycles max. 3 m/s <	Stranding combination	3 wires twisted
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 Culter-Ø (jacket) 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 2088-4 Temperature range (fixed) 4-080 °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 Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 10 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial dat country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Shield	no
resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ± 5 A	Material (jacket)	PUR
Outer-Ø (jacket) 4.1 mm ±5% Color (jacket) 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 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 (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5x outer Ø Bend radius (moving) 10x 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. 2 Mio. (25 °C) Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass	Material property (jacket)	
Color (jacket) 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 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 (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5x outer Ø Bend radius (moving) 10x outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 10 m/s² Acceleration (C-track) max. 10 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Shore hardness (jacket)	90 ±5 A
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 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 (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5x outer Ø Bend radius (moving) 10x outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 10 m/s² Acceleration (C-track) max. 10 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Outer-Ø (jacket)	4.1 mm ±5%
thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 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 (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 10 m/s² Torsion stress ±180 °m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial dat country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Color (jacket)	black
Nominal voltage 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 (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5× 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 m/s Acceleration (C-track) max. 10 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Test voltage	thermal resistance	flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2
Current load capacity to DIN VDE 0298-4 Temperature 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 Ø 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/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Nominal voltage	300 V AC
Temperature 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 Ø 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/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Test voltage	2500 V AC
Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours) Bend radius (fixed) 5× outer Ø No. of bending cycles (C-track) max. 10 Mio. (25 °C) Travel speed (C-track) max. 10 m/s² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1 1	Current load capacity	to DIN VDE 0298-4
Bend radius (fixed) 5× 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 m/s Acceleration (C-track) max. 10 m/s² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Temperature range (fixed)	-40+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (moving) 10x 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/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Temperature range (mobile)	-25+80 °C, (+90 °C at max. 10 000 operating hours)
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/s² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass Packaging unit 1	Bend radius (fixed)	5× outer Ø
Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 10 m/s² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Bend radius (moving)	10× outer Ø
Acceleration (C-track) max. 10 m/s² Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	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 Jacket Color black Commercial data Country of origin customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Travel speed (C-track)	max. 3 m/s
No. of torsion cycles max. 2 Mio. (25 °C) Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Acceleration (C-track)	max. 10 m/s ²
Torsion speed 35 cycles/min Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Torsion stress	±180°/m
Jacket Color black Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	No. of torsion cycles	max. 2 Mio. (25 °C)
Commercial data country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Torsion speed	35 cycles/min
country of origin DE customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Jacket Color	black
customs tariff number 85444290 EAN 4048879159203 eClass 27279218 Packaging unit 1	Commercial data	
EAN 4048879159203 eClass 27279218 Packaging unit 1	country of origin	DE
eClass 27279218 Packaging unit 1	customs tariff number	85444290
Packaging unit 1	EAN	4048879159203
	eClass	27279218
Sketch	Packaging unit	1
	Sketch	



stay connected



Male

Female





Product may differ from Image