

M12 female 90° A-cod. with cable LED

PUR 3x0.34 bk UL/CSA 7.5m

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

Female 90° M12, 4-pole 2× LED (PNP)

bridged

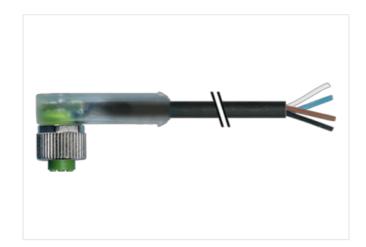
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

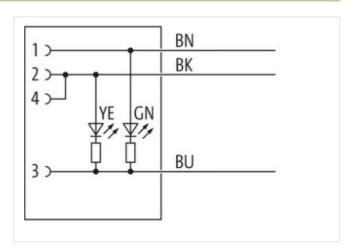
Plastic housings with good resistance against chemicals and oils.

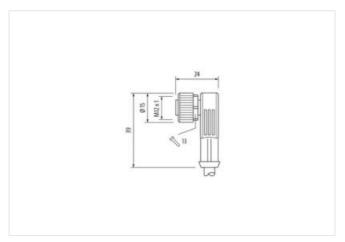
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

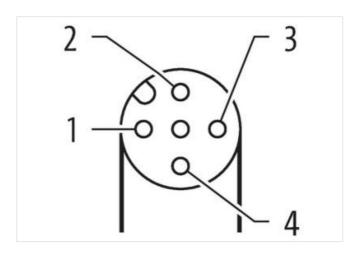
Link to Product

Illustration









Product may differ from Image













Cable length	7,5 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 Ø)	10 mm
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	4048879203708
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, 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)	I
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 nates	

Important installation notes

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: 2024-05-17



stay connected

Conformity Product standard DIN EN 61076-2-101 (M12) Cable (Cable Impact of Standard) EAS Cable (Intification) 623 Cable (Intification) 623 Cable (Type) 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform Cable weight (g/m) 35.97 g Material wire Cu wire, bare Resistor (core) max. 57 Ωkm (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3 × 0.34 mm² AWG similar to AWG 22 Material wire isolation PVC Material property wire insulation CFC-, cadmium-, silicone- and lead-free Shore hardness wire isolation 1.25 mm ±5% Colorinumbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted Sheld no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, tryotoysis and microbial resistant Outer-Ø (jacket) 4.3 mm	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Cable Cable identification 623 Cable (abel proval (cable) UL (AWM-Style 20549/1731), CSA; CE conform Cable Type 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform Cable weight (g/m) 35,97 g Material wire Cu wire, bare Resistor (core) max. 57 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3.0 34 mm² AWG similar to AWG 22 Material wire isolation PVC Wire-Ø incl. isolation CFC, cadmium-, silicone- and lead-free Shore hardness wire isolation 1.25 mm ±5% Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, pydrolysis and microbial resistant Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PVR-jacket) Outer-Ø (acket) 4.3 mm ±5% Color jacket black Chemical resist	Note on bending radius	
Cable Cable identification 623 Cable Type 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform Cable weight [g/m] 35,97 g Material wire Cu wire, bare Resistor (core) max. 57 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3× 0.34 mm² AWG similar to AWG 22 Material wire isolation PVC Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted Material property (jacket) 2 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 Material property (jacket) CFC-, halogen, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-	Conformity	
Cable identification 623 Cable Type 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549*1731), CSA; CE conform Cable weight [g/m] 35.97 g Material wire Cu wire, bare Resistor (core) max. 57 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3 × 0.34 mm² AWG similar to AWG 22 Material wire insulation PVC Material property wire insulation CFC-, cadmium-, silicone- and lead-free Shore hardness wire isolation 43 ±5 D Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted 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 Material property (jacket) CFC- halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Outer-Ø (jacket) 4.3 mm ±5% Color jacket black	Product standard	DIN EN 61076-2-101 (M12)
Cable Type 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform Cable weight [g/m] 35.97 g Material wire Cu wire, bare Resistor (core) max. 57 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-istrand wire class 6) Diameter (core) 3× 0.34 mm² AWG similar to AWG 22 Material wire isolation PVC Material wire isolation PVC Wire-Ø incl. isolation 1.25 mm ±5% Stranding combination 1.25 mm ±5% Stranding combination 3 wires twisted Shield no Material property (jacket) PUR/PVC Material property wire insulation 7 cc. cadmium-, silicone- and lead-free Shranding combination 3 wires twisted Shield no Wire-Ø incl. isolation 1.25 mm ±5% Color/imbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted Shield no Material property (jacket)<	Cable	
Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform Cable weight [g/m] 35,97 g Material wire Cu wire, bare Resistor (core) max. 57 D/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3 × 0.34 mm² AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted Shield no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, bydrolysis and microbial resistant Shield no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, bydrolysis and microbial resistant Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket) Outer-Ø (jac	Cable identification	623
Cable weight [g/m] 35,97 g Material wire Cu wire, bare Resistor (core) max. 57 Ωkm (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3 × 0.34 mm² AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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 Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Outer-Ø (jacket) 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 4.3 mm ±5% Color jacket black Chemical resistance good	Cable Type	2 (PUR/PVC)
Material wire Cu wire, bare Resistor (core) max. 57 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 3 x 0.34 mm² AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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 (PCV-under jacket); 85 ± 5 A (PUR-jacket) Outer-Ø (jacket) 4.3 mm ±5% Color jacket black ohemical 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	Approval (cable)	UL (AWM-Style 20549/1731), CSA; CE conform
Resistor (core) max. 57 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42 × 0.1 mm (multi-strand wire class 6) Diameter (core) 3 × 0.34 mm² AWG similar to AWG 22 Material wire isolation PVC Material property wire insulation CPC-, cadmium-, silicone- and lead-free Shore hardness wire isolation 43 ±5 D Wire-Ø incl. isolation 1.25 mm ±5% Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted 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); S±5 A (PVR-jacket) Outer-Ø (jacket) 4.3 mm ±6% Color jacket black 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 (mobile) -5+80 °C Bending radius (fixed) 10×	Cable weight [g/m]	35,97 g
Single wire Ø (core) 0.1 mm Construction (core) 42 x 0.1 mm (multi-strand wire class 6) Diameter (core) 3 x 0.34 mm² AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black 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 (dynamic)	Material wire	Cu wire, bare
Construction (core) 42 × 0.1 mm (multi-strand wire class 6) Diameter (core) 3 × 0.34 mm² AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Bending radius (dynamic) 15x outer Ø No. of bending cycles (C-track) <td< td=""><td>Resistor (core)</td><td>max. 57 Ω/km (20 °C)</td></td<>	Resistor (core)	max. 57 Ω/km (20 °C)
Diameter (core) 3x 0.34 mm² AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Bending radius (fixed) 10× outer Ø Bending radius (fixed) 10× outer Ø	Single wire Ø (core)	0.1 mm
AWG similar to AWG 22 Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C Bending radius (fixed) 10× outer Ø Bending radius (fixed) 10× outer Ø Bending radius (fixed) 15× outer Ø	Construction (core)	42× 0.1 mm (multi-strand wire class 6)
Material wire isolation 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 black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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 (fixed) 15× outer Ø No. of bending cycles (C-track) max. 3 m/s	Diameter (core)	3× 0.34 mm²
Material property wire insulation CFC-, cadmium-, silicone- and lead-free Shore hardness wire isolation 1.25 mm ±5% Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted Shield no Material property (jacket) 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -5+80 °C Bending radius (fixed) 10× outer Ø Bending radius (fixed) 15× outer Ø Bending radius (dynamic) No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 33 m/s	AWG	similar to AWG 22
Shore hardness wire isolation 43 ± 5 D Wire-Ø incl. isolation 1.25 mm ±5% Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Material wire isolation	PVC
Wire-Ø incl. isolation 1.25 mm ±5% Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black Chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Material property wire insulation	CFC-, cadmium-, silicone- and lead-free
Color/numbering of wires black similar to RAL 9005 Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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) No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s	Shore hardness wire isolation	43 ±5 D
Stranding combination 3 wires twisted 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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Wire-Ø incl. isolation	1.25 mm ±5%
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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	black similar to RAL 9005
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) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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) 10x outer Ø Bending radius (dynamic) No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 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 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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) No. of bending cycles (C-track) max. 2 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s	Shield	no
resistant, hydrolysis and microbial resistant Shore hardness jacket 80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket) Outer-Ø (jacket) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Material jacket	PUR/PVC
Outer-Ø (jacket) 4.3 mm ±5% Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Material property (jacket)	
Color jacket black chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Shore hardness jacket	80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)
chemical resistance good resistance to oil, gasoline and chemicals Nominal voltage UL 300 V AC Test voltage 2000 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	Outer-Ø (jacket)	4.3 mm ±5%
Nominal voltage UL 300 V AC Test voltage 2000 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 jacket	black
Test voltage 2000 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	chemical resistance	good resistance to oil, gasoline and chemicals
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	Nominal voltage	UL 300 V AC
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	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
Bending radius (fixed) 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 Ø No. 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
Travel speed (C-track) max. 3.3 m/s	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
	Acceleration (C-track)	max. 5 m/s ²