

M12 male 0° / M12 female 0° A-cod. shielded

PUR ((2x0.75)C + 2x0.75)C shielded gy UL 18m

AS-Interface Male straight – female straight M12 – M12, 4-pole with cable sleeves

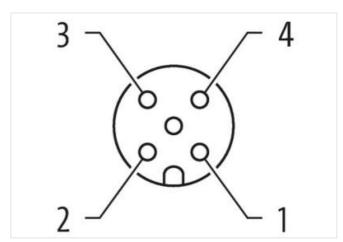
Plastic housings with good resistance against chemicals and oils.

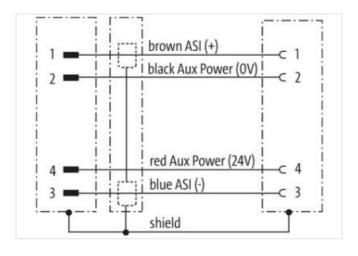
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

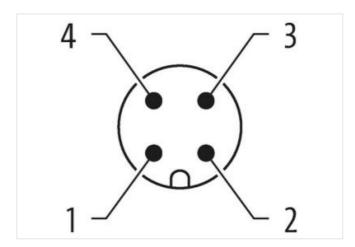
Link to Product

Illustration



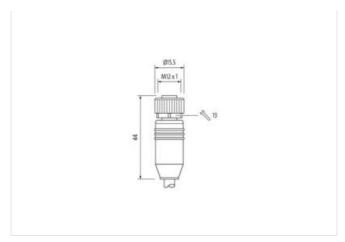








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Product may differ from Image



Cable length	18 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
No. of poles	4
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879740289
Packaging unit	1

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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Operating voltage AC max.	60 V
Operating voltage AC max.	60 V
Current operating per contact max.	4 A
Diagnostics	···
-	
Status indication LED	no
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	Nickeled
Material gasket	FKM
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
·	0.00
Operating temperature min.	-25 °C
Operating temperature max. Additional condition temperature range	85 °C
	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	(brown, blue), black, red
Cable identification	494
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 wires with Stranding combination with 2 Hatchet strand twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	Metal foil
Banding	Fleece, Foil
wire arrangement	(brown, blue), black, red
Cable weigth	100,1 g/m
Material jacket	PUR
0	85 ± 5 Shore A
Shore hardness jacket	
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Freedom from ingredients (jacket) Outer-diameter (jacket)	7,6 mm
Freedom from ingredients (jacket)	



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Outer diameter tolerance core insulation 7.5 % Shore hardness wire insulation 10.2 % Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 4.2 Damateter of single wires 0,15 mm Conductor or crossoction (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand dass 6 Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Material wire insulation (Data) PP Outer diameter wire insulation (Data) 7.7 mm Tolerance outer diameter wire insulation (Data) 7.0 ± 5 % Shore hardness wire insulation (Data) 7.0 ± 5 % Shore hardness wire insulation (Data) 7.0 ± 5 % Shore thardness wire insulation (Data) 7.0 ± 5 % Shore hardness wire insulation (Data) 7.0 ± 5 % Shore hardness wire insulation (Data) 7.0 ± 5 % Shore hardness wire insulation (Data) 7.0 ± 5 % Damount strands wire (Data) 2.0 ± 5 % Damount strands wi	Outer diameter insulation	2,5 mm
Ingredient freeness wire insulation lead free, cadmium-free, CFC-free, halogen-free, silicone-free	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,15 mm Conductor crossection (wire) 0,75 mm² Material conductor wire Strand class 6 Conductor type (wire) strand class 6 Material wire insulation (Data) PP Conduct diameter wire insulation (Data) 1,7 mm Toler accounter diameter wire insulation (Data) 1,5 % Shore hardness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 20 mm Amount wires (Data) 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 0,15 mm Conductor crosssection wire (Data) 42 Marcia conductor vire (Data) 5,75 mm² Material conductor vire (Data) 5,75 mm² Mire conductor type (Data) strand class 6 Nominal vollage AC max. 300 V Current load capacity strandard 10 DNI VDE 0298-4 Current load capacity strandard vollage (wire - wire) 2,6 CMm @ 20° C Electrical resistance line constant wire 26 CMm @ 20° C Electrical resistance coaling wire (Data) 2,8 V @ 60 s AC withstand	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Data) PP Outer diameter wire insulation (Data) 1,7 mm Tolerance outer diameter wire insulation (data) 5 % Shore hardness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 12 € Shore D Ingredient freeness wire insulation (Data) 22 Amount wires (Data) 2 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 42 Diameter of single wires (Data) 0.15 mm Ornductor crossection wire (Data) 9.5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Wire conductor type (Data) strand class 6 Current load capacity rim; wire 9.6 A Electrical resistance Dire constant wire 26 Ω/km @ 20 °C Electrical resistance Centing wire (Data) 26 Ω/km @ 20 °C Electrical resistance 2 kW @ 60 s	Amount strands (wire)	42
Material conductor wire	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Material wire insulation (Data) PP Outer dameter wire insulation (Data) 1.7 mm Tolerance outer diameter wire insulation (Data) ± 5 % Shore hardness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires (Data) 2 Amount strands wire (Data) 42 Dameter of single wires (Data) 0,15 mm Conductor crosssection wire (Data) 0,75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor vire (Data) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity frim, wire 9,6 A Electrical resistance coating wire (Data) 26 D/km @ 20 °C Electrical resistance coating wire (Data) 26 D/km @ 20 °C Power frequency withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (fixed) 80 °C <th< td=""><td>Conductor crosssection (wire)</td><td>0,75 mm²</td></th<>	Conductor crosssection (wire)	0,75 mm²
Material wire insulation (Data) PP Outer dameter wire insulation (Data) 1,7 mm Tolerance outer diameter wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires (Data) 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 0,15 mm Conductor crossection wire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Kranded copper wire, bare Wire conductor vire (Data) 5 Chala Current load capacity standard to DIN VDE 0298-4 Current load capacity wire vire vire vire vire vire vire vire v	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Data) 1,7 mm Tolerance outer diameter wire insulation (Data) 5 % Shore hardness wire insulation (Data) Ingredient freeness wire insulation (Data) 2 % Shore Dardness wire insulation (Data) Amount wires (Data) 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 0,15 mm Conductor crosssection wire (Data) 0,75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity (standard) to DIN VDE 0298 4 Current load capacity (wire wire) 9.6 Δ km @ 20 °C Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (fixed) 80 °C Min. operating temperature (fixed) <	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (Data) 70 ± 5 Shore D Shore hardness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 2 Amount wires (Data) 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 0,75 mm² Conductor crossection wire (Data) 0,75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Electrical resistance (line constant wire (Data) 2 kV @ 60 s	Material wire insulation (Data)	PP
Shore hardness wire insulation (Data) 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Outer diameter wire insulation (Data)	1,7 mm
Ingredient freeness wire insulation (Data) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Tolerance outer diameter wire insulation (data)	±5%
Amount wires (Data) 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 0.15 mm Conductor crosssection wire (Data) 0.75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature (mixed) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1080 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-r	Shore hardness wire insulation (Data)	70 ± 5 Shore D
Amount strands wire (Data) 42 Diameter of single wires (Data) 0,15 mm Conductor crosssection wire (Data) 0,75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Filame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resi	Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires (Data) 0,15 mm	Amount wires (Data)	2
Conductor crosssection wire (Data) 0,75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 5 °C Plame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Garding radius (fixed) 10 x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (fixed) 5 Mio. @ 25 °C	Amount strands wire (Data)	42
Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 10 x Outer diameter Bending radius (fixed) 10 x Outer diameter	Diameter of single wires (Data)	0,15 mm
Wire conductor type (Data) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9.6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance U. 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter	Conductor crosssection wire (Data)	0,75 mm²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (gynamic) 5 m@ 25 °C Traver sing distance (C-track) 5 m@ 25 °C Traver sing distance (C-track) 5 m@ 25 °C Traver sing distance (C-track) 5 Mio. Torsion stress ± 30 °/m	Material conductor wire (Data)	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter Bending radius (dynamic) 15 x Outer diameter Traver sing distance (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track)<	Wire conductor type (Data)	strand class 6
Current load capacity min. wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (installation) x Outer diameter Bending radius (dynamic) 15 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 m@ 25 °C Traver sing distance (C-track) 5 m@ 25 °C Traver singed (C-track) 5 Mio. Torsion stress ± 30 °/m <td>Nominal voltage AC max.</td> <td>300 V</td>	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 26 Ω/km @ 20 °C Electrical resistance coating wire (Data) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 3.3 m/s @ 25 °C Travel speed (C-track) 3.3 m/s @ 25 °C Travel speed (C-track) 3.3 m/s @ 25 °C Travel speed (C-track) 5 Mio. Torsion stress ± 30 °/m	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance coating wire (Data) 26 \(\Omega \text{ Mr} \text{ @ 20 °C} \) AC withstand voltage (wire - wire) 2 kV \(\text{ @ 60 s} \) Power frequency withstand voltage (wire - aliacket) 2 kV \(\text{ @ 60 s} \) AC withstand voltage (wire - shield) 2 kV \(\text{ @ 60 s} \) Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 \(\frac{1}{3} \) 1100 FT2 IEC 60332-2-2 UL 1581 \(\frac{1}{3} \) 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter Bending radius (dynamic) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C	Current load capacity min. wire	9,6 A
AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver speed (C-track) 5 Mio. Torsion stress ± 30 °/m	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) Min. operating temperature (static) A0 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver speed (C-track) 5 Mio. Torsion stress ± 30 °/m	Electrical resistance coating wire (Data)	26 Ω/km @ 20 °C
jacket) AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) AC oc Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) In 15x Outer diameter Operating temperature max. (dynamic) Operating temperature max. (dynamic) In 15x Outer diameter Operating temperature max. (dynamic) In 25x Outer diameter Operating temperature max. (dynamic) In 25x Outer diameter In 25x Out	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. Torsion stress ± 30 °/m		2 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) S0 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Max. operating temperature (fixed)	80 °C
Flame resistance Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Operating temperature min. (dynamic)	-5 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testing DIN EN 60811-404Oil resistanceGood, application-related testing DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)10 x Outer diameterBending radius (dynamic)15 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles5 Mio.Torsion stress± 30 °/m	Operating temperature max. (dynamic)	0° 08 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Gasoline resistance	Good, application-related testing
Bending radius (fixed) Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Bending radius (fixed)	10 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	Bending radius (dynamic)	15 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 5 Mio. Torsion stress ± 30 °/m	No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles 5 Mio. Torsion stress $\pm 30 ^{\circ}/m$	Traversing distance (C-track)	5 m @ 25 °C
Torsion stress ± 30 °/m	Travel speed (C-track)	
		5 Mio.
	·	± 30 °/m
	Torsion speed	35 cycles/min