

M12 female 90° A-cod. with cable shielded

PUR 4x0.34 shielded gy 32m

Female 90° M12, 4-pole shielded

with cable sleeves

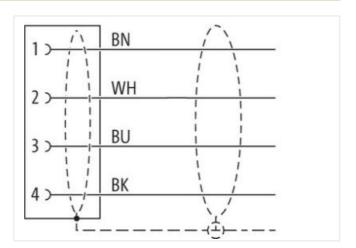
Plastic housings with good resistance against chemicals and oils.

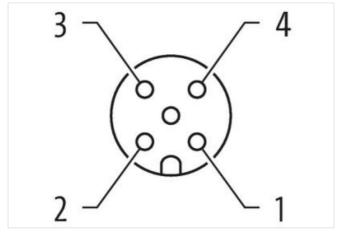
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

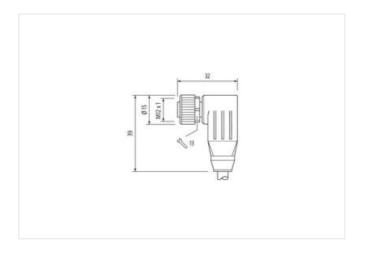
Link to Product

Illustration









Product may differ from Image











Cable length

32 m

Side 1

Tightening torque

0,6 Nm

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: 2024-05-20



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	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	4048879199070
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage Material group (IEC 60664-1)	1,5 kV
	'
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 notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	brown, black, blue, white

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: 2024-05-20



stay connected

wire arrangement brown, black, blue, white Material jacket PUR Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5 9 mm Orleance user (jacket) 5 9 mm Older (inner jacket) PVC Color (inner jacket) PVC Amount wires 4 Outer diameter insulation PVC Amount wires 4 Outer diameter insulation 5 5 Shore A Ingredient freenance core insulation 85 ± 5 Shore A Ingredient freenance core insulation 85 ± 5 Shore A Ingredient freenance core insulation 42 Diameter of single wires 0.1 mm Conductor of single wires 0.1 mm Conductor (wire) 34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) 35 manded copper wire, bare Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - conductor) 350 V Current load capacity (standard)<	Jacket Color	gray
Banding	Amount stranding	1
wire arrangement brown, black, blue, white Material jacket PUR Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5 9 mm Orleance user (jacket) 5 9 mm Older (inner jacket) PVC Color (inner jacket) PVC Amount wires 4 Outer diameter insulation PVC Amount wires 4 Outer diameter insulation 5 5 Shore A Ingredient freenance core insulation 85 ± 5 Shore A Ingredient freenance core insulation 85 ± 5 Shore A Ingredient freenance core insulation 42 Diameter of single wires 0.1 mm Conductor of single wires 0.1 mm Conductor (wire) 34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) 35 manded copper wire, bare Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - conductor) 350 V Current load capacity (standard)<	Stranding	4 wires twisted
Material jacket PUR Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) 5,9 mm Outer-diamoter (jacket) 5,9 mm Tolerance outer diamoter (jacket) 9 VC Color (iner jacket) 9 VC Color (iner jacket) 9 VC Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter folerance orie insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 85 ± 5 Shore A Ingredient fleeness wire insulation 9.3 mm² Maximateri conductor 9.0 mm² <	Banding	Fleece, Foil
Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead-free, carmium-free, CPC-free, silicone-free Under-diameter (jacket) 5 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter rolerance core insulation ± 5 % Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Outer diameter of olerate wire wire wire wire wire wire wire wir	wire arrangement	brown, black, blue, white
Freedom from ingradients (jackot) load-free, cadmium-free, CFC-free, silicone-free	Material jacket	PUR
Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter toterance core insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 19 ± 6 Mineral Min		85 ± 5 Shore A
Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter toterance core insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 18 ± 5 Shore A Ingredient freeness wire insulation 19 ± 6 Mineral Min	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor rossescition (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strande class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 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) 4,8 % AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 30 °C Operating temperature min. (dynamic)	Outer-diameter (jacket)	5,9 mm
Color (inner jacket) gray Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter betrance core insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation ± 5 % Impedient reeness wire insulation ± 5 % Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor (crossessection) (wire) 2,3 mm² Material conductor wire Stranded copper wire, bare Conductor (pye (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 350 V Gurrent load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) 30 °C Max. apperating temperature (static) 30 °C	Tolerance outer diameter (sheath)	±5%
Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor vire Stranded copper wire, barre Conductor vire Stranded copper wire, barre Conductor vire Stranded copper wire, barre Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (strandard voltage (wire - wire) 2 kV @ 60 s Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (standard) <	Material inner jacket	PVC
Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor sessection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 0/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature min. (dynamic) -5 °C Operating temperature min. (dynamic) -5 °C	Color (inner jacket)	gray
Outer diameter Insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Max. rated voltage (conductor - ground) 300 V Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ø/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature min. (dynamic) -5 °C Circal geterature min. (dynamic) -5 °C Circal resistance Good, application-re	Material wire insulation	PVC
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount stands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 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) 2 kV @ 60 s Power frequency withstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - wire) 2 kV @ 60 s Max. operating temperature (fixed) 0,5 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5° C Operating temperature min. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chem	Amount wires	4
Shore hardness wire insulation 85 ± 5 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity wink wire 4.8 A Electrical resistance line constant wire 57 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) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature max. (dynamic) -5 °C Operating temperature max. (dynamic) -5 °C Operating temperature max. (dynamic) -5 °C Gasoline resistance	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Cletrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - sileck) 1,5 kV @ 60 s Min. operating temperature (static) 30 °C Max. operating temperature (static) 30 °C Operating temperature (mixed) 5- °C Operating temperature max. (dynamic) 5- °C Operating temperature max. (dynamic) 70 °C Flame resistance Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 10 × Outer diameter Bending radius (fixed) 10 × Outer diameter Bending radius (fixed) 10 × Outer diameter Bending radius (fixed) 1,5 k Outer diameter Flavorsering distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 0x m@ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Mc. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gli resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good,	Shore hardness wire insulation	85 ± 5 Shore A
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 0x m@ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Mc. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gli resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good,	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature min. (dynamic) -5 °C Plame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance Good, application-related testing DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (dynamic) 1 to x Outer diameter Bending radius (dynamic) 1 to x Outer diameter	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5° °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 Gardins radius (fixed) 10 × Outer diameter Bending radius (installation) 15 × Outer diameter Bending radius (fixed) 0,1 Min. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 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) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 10 x Outer diameter Bending radius (fixed) 15 x Outer diameter Bending radius (fynamic) 15 x Outer diameter	Conductor crosssection (wire)	0,34 mm²
Max. rated voltage (conductor - conductor) 350 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Material conductor wire	Stranded copper wire, bare
Max. rated voltage (conductor - ground) As a feet voltage (conductor - ground) Current load capacity (standard) Current load capacity (standard) Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 \(\Omega \text{ Mr @ 20 °C} \) AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) Ac Withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) 430 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 70 °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) 15 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 7 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Conductor type (wire)	strand class 6
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Max. rated voltage (conductor - conductor)	350 V
Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 C/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °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 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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Max. rated voltage (conductor - ground)	300 V
Electrical resistance line constant wire 57 \(\Omega \) \(\cdot \) \(\cdo \) \(\cdot \) \(\cdot \) \(\cdot \) \(\cdo \) \(\cdot \) \(\cdot \)	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) 30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5°C Operating temperature max. (dynamic) 70 °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 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) Min. operating temperature (static) AC withstand voltage (mire - shield) Min. operating temperature (static) AC voltage (mire - shield) AC voltage	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °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) 7 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °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) 71 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °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 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Min. operating temperature (static)	-30 °C
Operating temperature max. (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 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 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Operating temperature min. (dynamic)	-5 °C
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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Operating temperature max. (dynamic)	70 °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 Bending radius (cynamic) 15 x Outer diameter No. of bending cycles (C-track) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	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 Bending radius (cynamic) 15 x Outer diameter No. of bending cycles (C-track) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	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) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track) 0,1 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C	Bending radius (fixed)	10 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C	Bending radius (dynamic)	15 x Outer diameter
	No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Travel speed (C-track) 3 m/s @ 25 °C	Traversing distance (C-track)	5 m @ 25 °C
	Travel speed (C-track)	3 m/s @ 25 °C