

## M12 female 90° A-cod. with cable shielded

PUR 3x0.34 shielded gy UL/CSA+drag ch. 3m

Female 90° M12, 3-pole shielded A-coded

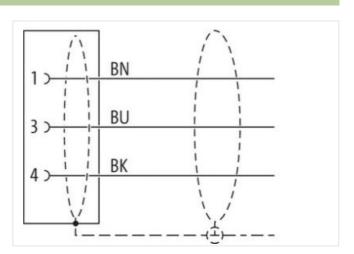
Plastic housings with good resistance against chemicals and oils.

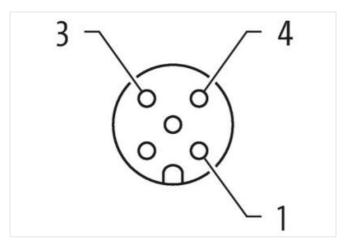
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

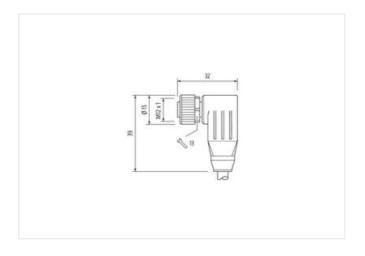
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

3 m

Side 1

Tightening torque 0,

0,6 Nm



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
Side 2	
Stripping length (jacket)	20 mm
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	4048879811811
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	<u> </u>
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Important installation notes  Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

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: 2024-05-21



stay connected

installation   Cable wite arrangement	Conformity	
wine arrangement         brown, black, blue           Zable Indirection         240           Jacket Color         gray           Type of Cerdificate         culfuse           Amount stranding         1           Stranding         3 wise twisted           State shelding (type)         copper trait, fined           Sales shelding (type)         80 %           Sales shelding (type)	Product standard	DIN EN 61076-2-101 (M12)
wine arrangement         brown, black, blue           Zable Indirection         240           Jacket Color         gray           Type of Cerdificate         culfuse           Amount stranding         1           Stranding         3 wise twisted           State shelding (type)         copper trait, fined           Sales shelding (type)         80 %           Sales shelding (type)	Installation   Cable	· ,
Cable Indentification 240  Jacksot Topio 3  Jacksot Golor gray  Type of Certificate Amount stranding 1  Stranding 3 wires twisted Cable enheiding (type) copper braid, finned Cable endering endering (type) copper copper braid, finned Cable endering endering (type) copper copper copper copper copper copper copper cop		hrown black blue
Jacket Clork  Jacket Standing  Jacket Clork  Jacket Standing  Ja		
Jacket Color		
Type of Conflicate curvers of Conflicate cur	•	
Amount stranding 1 Stranding 3 wires twisted 3 alber shielding (type) copper braid, tineed 3 alber shielding (coverage) 80 % 3 Banding Fleeor, Foll infer arrangement brown, black, blue 3 Banding Fleeor, Foll infer arrangement brown, black, blue 3 Banding Fleeor, Foll infer arrangement brown, black, blue 3 Banding Fleeor, Foll infer arrangement brown, black, blue 3 Banding Fleeor, Foll infer arrangement Brown, black, blue 3 Banding Fleeor, Foll infer arrangement Brown, black, blue 4 gim Material gineter 5 Brown Bandings Blacket 5 PUR 5 Brown Bandings Blacket 5 Brown Bandings Blacket 5 Finedom from ingredients (glacket) 5 Fine Tolerance outer diameter (slacket) 5 Fine Material wire insulation 7 Brown Bandings Blacket 5 Sk. Material wire insulation 1,25 mm 5 Duter diameter brown on insulation 1,25 mm 5 Duter diameter brown on insulation 1,25 mm 5 Duter diameter brown on insulation 1,25 mm 5 Duter diameter insulation 1,25 mm 1,2		
Stranding 3 wires twisted cable shielding (type) copper braid, linned cable shielding (coverage) 80 % 8   Banding Fleece, Foll  wire arrangement brown, black, blue  Aller weight 44 g/m  Malarial jacket PUR  Shore hardness jacket 99 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Duter-climater (jacket) 5 mm  Tolerance outer diameter (sheath) ± 5 % 8   Malarial wire insulation PP  Amount wires 3   Shore hardness wire insulation 1,25 mm  Duter diameter insulation 1,25 mm  Duter diameter insulation 70 ± 5 Shore D  Ingredient forenses wire insulation 10   Tolerance outer diameter (sheath) 10   Tolerance outer diameter (sheath) 10   Tolerance outer diameter (sheath) 10   Toler diameter insulation 1,25 mm  Duter diameter insulation 10   Toler diameter insulation 10   To	**	
Cable shielding (type) copper braid, finned  Salbe shielding (coverage) 80 %  Sandring Fleece, Foll  Wire arrangement brown, black, blue  Cable weight 44 g/m  Material jacket PUR  Shore hardness jacket Freedom from ingendents (goket) 5 shore A  Freedom from ingendents (goket) 5 mm  Toldrance outer diameter (shealth) 5 mm  Toldrance outer diameter (shealth) 5 mm  Toldrance outer diameter (shealth) 6 5 mm  Toldrance outer diameter (shealth) 7 5 mm  Toldrance outer diameter (shealth) 7 5 mm  Toldrance outer diameter (shealth) 8 5 mm  Duller diameter insulation 1,25 mm  Duller diameter insulation 1,25 mm  Duller diameter lotivariace core insulation 1,25 mm  Duller diameter folkerance ore insulation 70 5 5 shore D  Shore hardness wire insulation 70 5 5 shore D  Shore hardness wire insulation 70 5 5 shore D  Shore for diameter of single wires 0,11 mm  Doubler diameter of single wires 0,11 mm  Conductor type (wire) 0,34 mm²  Material conductor wire 0 Stranded copper wire, bare  Conductor type (wire) 10 mm  Con		
Sabe shelding (coverage)		
Bandring   Fleece, Foli		
wire arrangement         brown, black, blue           Zable weight         44 g m           Marefal Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter diameter (jacked)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Duter diameter tolerance core insulation         1,25 mm           Shore bardness wire insulation         70 ± 5 Shore D           Shore bardness wire insulation         70 ± 5 Shore D           Amount strands (vier)         42           Diameter of single wires         0,1 mm           Conductor (view)         42           Diameter of single wires         0,1 mm           Conductor type (wire)         strand class 6           Conductor type (wire)         strand class 6           Conductor type (wire)         strand class 6           Courrent load capacity (sandard)         to DIN VDE 0298-4           Current load capacity (sandard)         to DIN VDE 0298-4           Current load capacity (sandard)         to DIN VDE 0298-4           Current load capacity		
Cable weigth         44 g/m           Material jacket         PUR           Material jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         5 mm           Tofferance outer diameter (heath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter lolerance core insulation         1,25 mm           Outer diameter lolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Outer diameter lolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter lolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter swire insulation         1,25 mm	<u> </u>	*
Material jacket		
Shore hardness jacket   90 ± 5 Shore A		
Freedom from Ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		
Duter-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %.           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Duter diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         12 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor rosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           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 min. wire         6 A           Electrical resistance line constant wire         57 Ωkm @ 20 °C           AC withstand voltage (wire - shield)         2 kV @ 60 s           Wiff. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Operating temperature (inc. (do)	•	
Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor of single wires         0,1 mm           Conductor vive         Stranded copper wire, bare           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Corrent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withst		
Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6 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)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90		
Amount wires 3  Duter diameter insulation 1,25 mm  Duter diameter insulation 1,25 mm  Duter diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-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  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 win- wire 6 A  Electrical resistance line constant wire 57 (D/km @ 20 °C  AC withstand voltage (wire - wire) 2 k V ⊕ 60 s  Power frequency withstand voltage (wire - shield) 2 k V ⊕ 60 s  AC withstand voltage (wire - shield) 2 k V ⊕ 60 s  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Deperating temperature mix. (dynamic) -25 °C  Deperating temperature max. (dynamic) -25 °C  Deperating temperature max. (dynamic) -25 °C  Discussion Cool, application-related testing  Bending radius (fixed) 5 × Outer diameter  No. of bending cycles (C-track) 5 mic 25 °C Inizototal  Traversing distance (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-track) 5 mic 25 °C  No. of torsion cycles (C-		
Duter diameter insulation         1,25 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-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           Nominal voltage AC max.         300 V           Courrent load capacity (standard)         to DIN VDE 0298-4           Courrent load capacity min. wire         6 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)         2 kV @ 60 s           Max. operating temperature (fixed)         2 kV @ 60 s           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Poperating temperature min. (dynamic)         -25 °C           Chemical resistance         Good, application-related testing           Chir resistance         Good, application-related testing           Ch		
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-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           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         70 /km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withestand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Ope		
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (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 Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 3 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Diameter of the sistance Good, application-related testing Gasoline resistance DIN EN 68011-404   Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 5 × Outer diameter No. of bending cycles (C-track) 5 mio. 25 °C No. of torsion cycles 2 Mio. of torsion cycles 2 Mio.		•
Ingredient freeness wire insulation I lead-free, cadmium-free, CFC-free, halogen-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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 3 x O y y y y y y y y y y y y y y y y y y		
Amount strands (wire) 42  Diameter of single wires 0,1 mm  Conductor (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) 57 Ω/km @ 20 °C  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Departing temperature max. (dynamic) 25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Dil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  No. of torsion cycles (C-track) 5 Mio. @ 25 °C  No. of torsion cycles (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles (C-track) 2,3 m/s @ 25 °C  No. of torsion cycles (C-track) 2,4 Mio. 2 Mio. 3 Mio. 2 Mio. 3 Mio. 2 Mio. 2 Mio. 2 Mio. 3		
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           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 Oxfm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - acket)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         [EC 60332-2-2   U. I 1581 § 1100 FT2   U. 1581 § 1090           chemical resistance         Good. application-related testing           Coll resistance         Good. application-related testing           Dil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer		
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  6 A  Electrical resistance line constant wire  57 \(  \text{	* '	
Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  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 min. wire 6 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 - acket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Casoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 5 × 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 2 Mio.	<u> </u>	·
Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       6 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 - acket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       5 Mio. @ 25 °C         Travel speed (C-track)       5 Mio. @ 25	· · ·	
Nominal voltage AC max.  300 V Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  6 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 - acket)  AC 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 / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  25 °C  Operating temperature max. (dynamic)  Blame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  No. of bending cycles (C-track)  5 mile 25 °C  Traversing distance (C-track)  5 mile 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.		
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 6 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 - acket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  AC 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 / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 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 2 Mio.		
Current load capacity min. wire 6 A  Electrical resistance line constant wire 57 \( \Omega \) \( \chick{Omega} \) \( Om		
Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - acket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  schemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.		6 A
AC withstand voltage (wire - wire)  2 kV @ 60 s  Power frequency withstand voltage (wire - acket)  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 / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  No. of bending cycles (C-track)  5 min. @ 25 °C  Traversing distance (C-track)  5 min. @ 25 °C  No. of torsion cycles  2 Mio.		57 Ω/km @ 20 °C
Power frequency withstand voltage (wire - acket)  AC withstand voltage (wire - shield)  AC withstand voltage (wire withstand voltage (withstand vo		
Min. operating temperature (static)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Max. operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Max. operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	AC withstand voltage (wire - shield)	2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C  No. of torsion cycles  2 Mio.	Min. operating temperature (static)	
Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m@ 25 °C  Traversing distance (C-track)  5 m@ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traversing distance (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	Operating temperature min. (dynamic)	-25 °C
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	Bending radius (fixed)	5 x Outer diameter
No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  2 Mio.	Bending radius (dynamic)	
Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	No. of bending cycles (C-track)	
Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	Traversing distance (C-track)	-
No. of torsion cycles 2 Mio.	Travel speed (C-track)	
	No. of torsion cycles	
	Torsion stress	± 30 °/m

## Product-PDF for Article 7000-13241-2400300



Torsion speed

35 cycles/min