

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

PUR 5x0.34 shielded gy UL/CSA+drag ch. 10m

Male 90° M12, 5-pole shielded A-coded

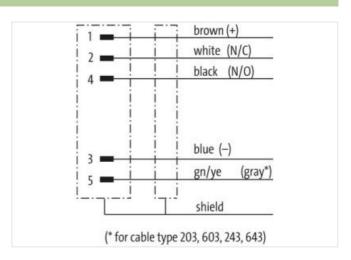
Plastic housings with good resistance against chemicals and oils.

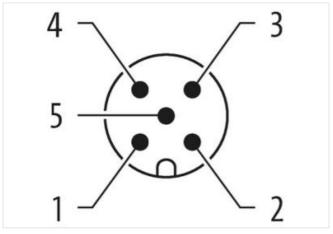
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

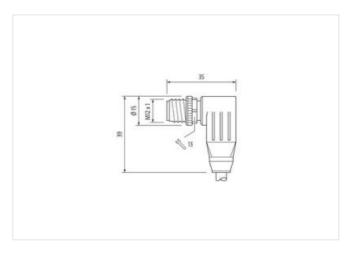
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

10 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: 2024-05-11



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gold plated M12 M12 x 1 A Copper alloy PUR SW13 IP65, IP66K, IP67
M12 x 1  A Copper alloy PUR SW13 IP65, IP66K, IP67
Copper alloy PUR SW13 IP65, IP66K, IP67
PUR SW13 IP65, IP66K, IP67
PUR SW13 IP65, IP66K, IP67
SW13 IP65, IP66K, IP67
IP65, IP66K, IP67
gold plated
gold plated
27279218
27279218
27279218
27060311
27060311
27060311
27060311
EC001855
85444290
4048879728911
1
60 V
60 V
30 V
30 V
4 A
M12 x 1
inserted, screwed
3
1,5 kV
I
Nickeled
nickel plated
Zinc die-casting
Zinc die-casting
inserted, screwed, Shaking protection
-25 °C
85 °C
depending on cable quality
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



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Table   Capital	Conformity	
Sable identification         242           Zable Type         3           Sable Type         cVRus           Type of Carlificatio         cVRus           Annount stranding         1           Stranding         5 wires around Core Illier twisted           Sable shiebding (type)         copper braid, timed           Sable weigh         57.2 g/m           Value (type)         57.2 g/m           Value (type)         57.2 g/m           Value (type)         5.5 c/m           Forebrance outer dameter (sheath)         4.5 %           Makeral wire insulation         1.5 mm           Under dameter (sheath)         4.5 %           Makeral wire insulation	Product standard	DIN EN 61076-2-101 (M12)
Sable identification         242           Zable Type         3           Sable Type         cVRus           Type of Carlificatio         cVRus           Annount stranding         1           Stranding         5 wires around Core Illier twisted           Sable shiebding (type)         copper braid, timed           Sable weigh         57.2 g/m           Value (type)         57.2 g/m           Value (type)         57.2 g/m           Value (type)         5.5 c/m           Forebrance outer dameter (sheath)         4.5 %           Makeral wire insulation         1.5 mm           Under dameter (sheath)         4.5 %           Makeral wire insulation	Installation   Cable	
Sacket Type   3   1   1   1   1   1   1   1   1   1	Cable identification	242
Interest Code   Pay		
Injuse of Certificate CURus  Innount standing (1)  Swiss around Core filler twisted  Sahot and bedring (type) coppor braid, finned  Sahot and bedring (type) coppor braid, finned  Sahot and bedring (type) coppor braid, finned  Sahot and shelding (source) 80 %  Sanding Fleece, Foil		
Amount stranding 1 Firanding 5 wires around Core filler twisted Sable shielding (type) copper braid, tinned Sable shielding (coverage) 80 % Sandring Fleece, Foil Filler yes Wire arrangement brown, black blue, white, green-yellow Traversing distance (C-track) 5 m @ 25° (T) horizontal Sable sweight 57.2 g/m Malorial jackot PUR Shore hardness jackot PUR Shore hardness jackot 9 5.5 mm Fleedom from ingredients (jackel) lead-free, cadmium-free, CFC-free, halogen-free, silicons-free Duter diameter (jacket) 5.5 mm Floterance outer diameter (sheath) 1.5 mm Floterance outer diameter (sheath) 2.5 mm Floterance outer diameter (sheath) 1.25 mm Duter diameter (sheath) 5.5 mm Floterance outer diameter (sheath) 1.25 mm Duter		
Stranding 5 wires around Core filler twisted cable shelding (type) copper braid, tinned cable shelding (coverage) 80 % scales scales (coverage) 80 % scales scales (coverage) 80 % s	,,	
Cable shielding (coverage) copper braid, finned  2able shielding (coverage) 80 %  3andring Fleece, Foll  Filler yes  iver arrangement brown, black, blue, white, green-yellow  fraversing distance (C-track) 5 m @ 25 °C   horizontal  2able velogith 57.2 g/m  Material jacket PUR  Shore hardness 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 (jacket) 5.5 m m  Tolerance outer diameter (sheath) 4.5 %  Material write insulation PP  Amount writes 5  Zuber diameter insulation 1,255 mm  Duter dia	Stranding	5 wires around Core filler twisted
Piece, Foll	Cable shielding (type)	copper braid, tinned
Fleece, Foil	Cable shielding (coverage)	80 %
wire arrangement brown, black, blue, white, green-yellow  Traversing distance (C-track) 5 m @ 25 °C ( Indizontal  32 be weight 57.2 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Teredom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Duler diameter (jacket) 5,6 mm  Tolerance outer diameter (sheath) ± 5 %  Shore hardness wire insulation PP  Amount wires 5  Sulter diameter insulation 1,25 mm  Duler diameter insulation 2 ± 5 %  Shore hardness wire insulation 1,25 mm  Duler diameter insulation 2 ± 5 %  Shore hardness wire insulation 1,25 mm  Durer diameter objerance core insulation 1,25 mm  Durer diameter objerance ore insulation 1,25 mm  Durer diameter objerance ore insulation 2 ± 5 %  Shore hardness wire insulation 1,25 mm  Durer diameter objerance ore insulation 2 ± 5 %  Shore hardness wire insulation 1,25 mm  Durer diameter objerance ore insulation 1,25 mm  Durer diameter objerance ore insulation 1,25 mm  Durer diameter objerance ore insulation 2 ± 5 %  Amount strands (wire) 42  Dameter of single wires 0,1 mm  Conductor or crosssection (wire) 42  Dameter of single wires 0,1 mm  Donductor type (wire) 5 mranded copper wire, bare 2 mranded capacity (giver) 5	Banding	Fleece, Foil
Traversing distance (C-track)         5 m @ 25 °C   horizontal           Zable weight         57,2 g/m           Material Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from Ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Under diameter (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Autorial wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material corrections in silve wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 10 ±	Filler	yes
Traversing distance (C-track)         5 m @ 25 °C   horizontal           Zable weight         57,2 g/m           Material Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from Ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Under diameter (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Autorial wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Material corrections in silve wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 10 ±	wire arrangement	•
Dable weigh		
Material 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 (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Immount wires         5           Duter diameter insulation         1,25 mm           Duter diameter insulation         1,25 mm           Shore hardness wire insulation         70 ± 5 Shore D           Impretient freeness wire insulation         42           Shore hardness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Simple for single wires         0,1 mm           Conductor oressection (wire)         0,34 mm²           Material conductor vire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage (size assection (wire)         30 V           Current load capacity (intamidard)         to INI VDE 0298-4           Vourient load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand volt	Cable weigth	57,2 g/m
Shore hardness jacket   90 ± 5 Shore A	Material jacket	
Feedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		90 ± 5 Shore A
Duter-diameter (jacket)         5,6 mm           Folerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter insulation         1,25 mm           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         tead-free, cadmium-free, CFC-free, halogen-free, silicone-free           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 row (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Volument 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           Acceptable (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)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s	Freedom from ingredients (jacket)	
Tolerance outer diameter (sheath)	Outer-diameter (jacket)	·
Amount wires 5  Duter diameter insulation 1,25 mm  Duter diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1,25 mm  Particular 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 4,5 A  Electrical resistance ine 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 withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 80 °C / 90 °C @ 10000 h Operation  Deparating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Deparating temperature max. (dynamic) 45 °C °C  Deparating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Eleme resistance Good, application-related testing  Dia resistance Good, application-related testing  Earned in adius (fixed) 5 × Outer diameter  Fravel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Tolerance outer diameter (sheath)	±5%
Duter diameter insulation         1,25 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Imperied in 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 cross-section (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         4,5 A           Electrical resistance line constant wire         7 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Win. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Chemical resistance </td <td>Material wire insulation</td> <td>PP</td>	Material wire insulation	PP
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 (wire)         4,5 A           Electrical resistance line constant wire         4,5 A           Clack 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           Max. operating temperature (static)         -40 °C           Max. operating temperature (min. (dynamic)         -25 °C           Operating temperature min. (dynamic)         -25 °C           Departing temperature min. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Ele	Amount wires	5
Shore hardness wire insulation   70 ± 5 Shore D	Outer diameter insulation	1,25 mm
Impredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	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  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s	Shore hardness wire insulation	70 ± 5 Shore D
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 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Sound cotor type (wire)  strand class 6  Nominal voltage AC max.  300 V  Current load capacity standard)  Current load capacity min. wire  4,5 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 - 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)  2 kV @ 60 s  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Deparating temperature max. (dynamic)  25 °C  Deparating temperature max. (dynamic)  30 °C / 90 °C @ 10000 h Operation  Elame resistance  EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Bending radius (fixed)  5 × Outer diameter  Fravel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	Amount strands (wire)	42
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Sound cotor type (wire)  strand class 6  Nominal voltage AC max.  300 V  Current load capacity standard)  Current load capacity min. wire  4,5 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 - 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)  2 kV @ 60 s  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Deparating temperature max. (dynamic)  25 °C  Deparating temperature max. (dynamic)  30 °C / 90 °C @ 10000 h Operation  Elame resistance  EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Bending radius (fixed)  5 × Outer diameter  Fravel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	Diameter of single wires	0,1 mm
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         4,5 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 (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           Elame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           Chemical resistance         Good, application-related testing           Chemical resistance         Good, application-related testing           Dil resistance         Good, application-related testing   DIN EN 60811-404           Sending radius (fixed)         5 x Outer diameter           Gending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         5 Mio. @ 25 °C           No. of torsion cycles         2 Mio. </td <td>Conductor crosssection (wire)</td> <td>0,34 mm<sup>2</sup></td>	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 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  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  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  3 o °C / 90 °C @ 10000 h Operation  Deparating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Plane resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  300 X W @ 50 X W @ 50 X W @ 50 X W @ 50 X W W @ 50 X W W W W W W W W W W W W W W W W W W	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  57 \( \text{Q/km} \) \( 20 \) \( \text{C} \)  AC withstand voltage (wire - wire)  2 kV \( \text{Q} \) 60 s  Power frequency withstand voltage (wire - acket)  AC withstand voltage (wire - shield)  2 kV \( \text{Q} \) 60 s  AC withstand voltage (wire - shield)  2 kV \( \text{Q} \) 60 s  Win. operating temperature (static)  40 \( \text{C} \)  Max. operating temperature (fixed)  30 \( \text{C} / 90 \) \( \text{C} \) \( 10000 \) h Operation  Deparating temperature min. (dynamic)  25 \( \text{C} \)  Operating temperature max. (dynamic)  1 EC 60332-2-2   UL 1581 \( \xi \) 1100 FT2   UL 1581 \( \xi \) 1090  Chemical resistance  Good, application-related testing  Cil resistance  Good, application-related testing  Dil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Travel speed (C-track)  5 Mio. \( \text{Q} 25 \) \( \text{C} \)  No. of torsion cycles  2 Mio.	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,5 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 (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  Elame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance Good, application-related testing  Clasoline resistance Good, application-related testing  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Fravel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Nominal voltage AC max.	300 V
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 (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  Elame 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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Fravel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Current load capacity (standard)	to DIN VDE 0298-4
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)  2 kV @ 60 s  Mor. operating temperature (fixed)  40 °C  Max. operating temperature min. (dynamic)  2-5 °C  Departing 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  Dil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Ganding radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 kV @ 60 s  4 kV @ 60 s  2 kV @ 60 s  4 kV @	Current load capacity min. wire	4,5 A
Power frequency withstand voltage (wire - acket)  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Gending radius (dynamic)  10 x Outer diameter  Fravel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - shield)  AC withstand voltage (wire and withstand voltage (withstand voltage (w	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Max. 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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Fravel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed)  Deperating temperature min. (dynamic)  -25 °C  Deperating 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  Dil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	Min. operating temperature (static)	-40 °C
Departing temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Elame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Dil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  2 Mio.	Max. operating temperature (fixed)	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  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Operating temperature min. (dynamic)	-25 °C
Gasoline resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 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  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Gasoline resistance	
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Oil resistance	Good, application-related testing   DIN EN 60811-404
Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.	Bending radius (fixed)	
No. of torsion cycles 2 Mio.	Bending radius (dynamic)	
	Travel speed (C-track)	5 Mio. @ 25 °C
Torsion stress ± 30 °/m	No. of torsion cycles	2 Mio.
	Torsion stress	± 30 °/m

## Product-PDF for Article 7000-13161-2421000



Torsion speed

35 cycles/min