

## M12 female 0° A-cod. with cable shielded

PUR 4x0.34 shielded gy UL/CSA+drag ch. 35m

Female straight M12, 4-pole shielded

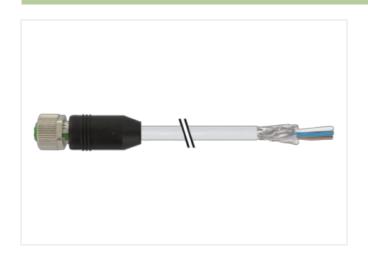
with cable sleeves

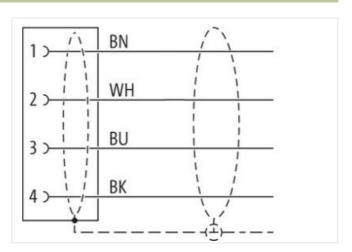
Plastic housings with good resistance against chemicals and oils.

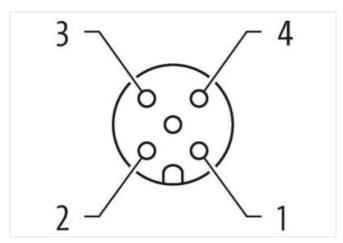
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

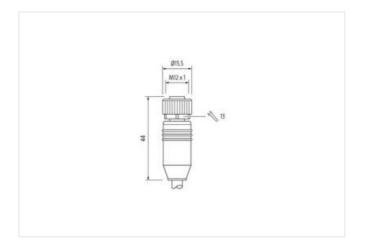
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

35 m

Side 1

Tightening torque

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
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	4065909062982
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	
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)	I
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation 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	



## stay connected

Cable Type	Cable identification	241
Jacksto Cobr   gray   Type of Certificate   cURs   CURs	Cable Type	3
Type of cartificates		gray
A wires twisted   Cable shelding (type)   copper braid, timmed   Cable shelding (type)   28 %   Banding   Flaece, Foll   Banding   Flaece, Follow   Ba	Type of Certificate	
Cable shieding (type)         copper braid, threed           Cable shieding (coverage)         80 %           Banding         Floeor, Foll           wire arrangement         brown, black, bue, white           Cable weight         50,6 g/m           Material Jacket         PUR           Shore hardness jacket         90.5 Shore A           Freedom from Ingredients (Jacket)         15,3 mm           Outer-diameter (jacket)         5,3 mm           Tolerance outer damoter (shealth)         1,5 %           Material wire insulation         PP           Annual wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,5 %           Shore hardness wire insulation         1,5 % Shore Interview of single wires           Outer diameter insulation         1,5 % Shore Interview of single wires           Outer diameter insulation         1,5 % Shore Interview of single wires           Outer diameter insulation         1,5 % Shore Interview of single wires wire insulation           Outer diameter insulation         1,5 % Shore Interview of single wires wire insulation           Outer diameter (befure or single wires         0,1 mm           Conductor Torsoscope wire insulation<	Amount stranding	1
Cable shelding (coverage)         80 %           Banding         Fleece, Foll           wie arrangement         brown, black, blue, white           Cable weight         50.6 g/m           Shore hardness jacket         90.5 8 Shore A           Freedom from ingredients (gacket)         90.5 8 Shore A           Couter-diameter (gacket)         5.3 mm           Tolerance outer diameter (gheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         7,2 5 Shore D           Impresent or insulation	Stranding	4 wires twisted
Cable shelding (coverage)         80 %           Banding         Fleece, Foll           wie arrangement         brown, black, blue, white           Cable weight         50.6 g/m           Shore hardness jacket         90.5 8 Shore A           Freedom from ingredients (gacket)         90.5 8 Shore A           Couter-diameter (gacket)         5.3 mm           Tolerance outer diameter (gheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         7,2 5 Shore D           Impresent or insulation	Cable shielding (type)	copper braid, tinned
wire arrangement         brown, black, blue, white           Cable weigh         50.6 g/m           Material Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         15 Shore A           Freedom from ingredients (jacket)         5.3 mm           Obter-diameter (jacket)         5.3 mm           Tolerance outer dameter (sheath)         1 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter folerance core insulation         7.5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           Ingredient freeness wire insulation         70 ± 5 Shore ID           On turn food capacity six wires an		80 %
Cable weight         50.6 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           Outer diameter (jacket)         5.3 mm           Toferance outer diameter (shallon)         ± 5%           Material wire insulation         PP           Amount wires         4           Outer diameter briesrance core insulation         ± 5%           Shore hardness wire insulation         1,25 mm           Outer diameter briesrance core insulation         ± 5%           Shore hardness wire insulation         1,25 mm           Outer diameter size wire insulation         1,25 mm           Uniter of diameter size of insulation         ± 5%           Shore hardness wire insulation         1,25 mm           Outer diameter size wire insulation         ± 5%           Bhore hardness wire insulation         1,25 mm           Outer diameter for leave size wire insulation         2,25 mm           Imperied interess wire insulation         1,25 mm           Outer diameter for leave size wire insulation         1,25 mm           Outer diameter for size wire insulation         2,25 mm           Imperied interess wire insulation         1	Banding	Fleece, Foil
Cable weight         50.6 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           Outer diameter (jacket)         5.3 mm           Toferance outer diameter (shallon)         ± 5%           Material wire insulation         PP           Amount wires         4           Outer diameter briesrance core insulation         ± 5%           Shore hardness wire insulation         1,25 mm           Outer diameter briesrance core insulation         ± 5%           Shore hardness wire insulation         1,25 mm           Outer diameter size wire insulation         1,25 mm           Uniter of diameter size of insulation         ± 5%           Shore hardness wire insulation         1,25 mm           Outer diameter size wire insulation         ± 5%           Bhore hardness wire insulation         1,25 mm           Outer diameter for leave size wire insulation         2,25 mm           Imperied interess wire insulation         1,25 mm           Outer diameter for leave size wire insulation         1,25 mm           Outer diameter for size wire insulation         2,25 mm           Imperied interess wire insulation         1	wire arrangement	brown, black, blue, white
Shore hardness jacket   90 ± 5 Shore A		50,6 g/m
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         10,25 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           Dameter of single wires         0,1 mm           Conductor ryse (wire)         0,24 mm²           Material conductor vire         Stranded copper wire, bare           Conductor type (wire)         5 m @ 25 °C   horizontal           Naminal voltage AC max         300 V           Current load capacity (standard)         to DIN VDE 0298 4           Electrical resistance line constant vire         5 7 0km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @	Material jacket	PUR
Outer-diameter (jacket)         5.3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1.25 mm           Outer diameter insulation         2 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 rosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 2094-4           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 - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Mn. operating		90 ± 5 Shore A
Outer-diameter (jacket)         5.3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1.25 mm           Outer diameter insulation         2 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 rosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 2094-4           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 - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Mn. operating	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,3 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max         300 V           Current load capacity (standard)         to DIN VDE 0298 ·4           Current load capacity imi. wire         4,8 A           Electrical resistance line constant wire         7 Okm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C         60 °C		
Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter folorance core insulation         25 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 4 Shore D           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)         stranded copper wire, bare           Taversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         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)         2 kV @ 60 s           Min. operating temperature (fixed)         60 °C / 90 °C @ 100000 h Operation      <		•
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 crossection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         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 - sheld)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature min. (dynamic)         -25 °C           Operating temperature min. (dynamic)         -25 °C           Operating tem		
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, admium-free, CFC-free, halogen-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           Taversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency 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)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         Good, application-related testing	Amount wires	4
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           Traversing distance (C-track)         5 m @ 25 °C   horizontal           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         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           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2           chemical resistance         Good, app	Outer diameter insulation	1,25 mm
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           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         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)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         60 °C / 90 °C @ 10000 h Operation           Flame resistance         Good, application-related testing	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           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         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 N/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           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         U. L 1581 § 1100 FT2   U. L 1581 § 1090   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Ge	Shore hardness wire insulation	70 ± 5 Shore D
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  Traversing distance (C-track) 5 m @ 25 °C   horizontal  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 4,8 A  Electrical resistance line constant wire 57 \( \text{ Ou/km @ 20 °C} \)  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (fixed) 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  Gasoline resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 chemical resistance  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)  O,34 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Traversing distance (C-track)  S m @ 25 °C   horizontal  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,8 A  Electrical resistance line constant wire  57 \( \text{ Ork m @ 20 °C} \)  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)  Bood, application-related testing  Gasoline resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  Bending radius (fixed)  5 *C Outer diameter  Travel speed (C-track)  5 *Min. @ 25 °C  No. of torsion cycles  ± 30 °/m	Amount strands (wire)	42
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         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)         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         UL 1581 § 1100 FT2   UL 1581 § 190   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Tavel speed (C-track) <td>Diameter of single wires</td> <td>0,1 mm</td>	Diameter of single wires	0,1 mm
Conductor type (wire)       strand class 6         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Nominal voltage AC max.       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)       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       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         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         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       5 Mio. @ 25 °C         No. of tors	Conductor crosssection (wire)	0,34 mm²
Traversing distance (C-track) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 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 - airck) 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 UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  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  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		Stranded copper wire, bare
Nominal voltage AC max.     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)     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     UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2       chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing       0il resistance     DIN En 60811-404   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.       Torsion stress     ± 30 °/m	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     4,8 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)     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     UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2       chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing       0il resistance     DIN En 60811-404   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.       Torsion stress     ± 30 °/m	Traversing distance (C-track)	5 m @ 25 °C   horizontal
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)       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       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         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         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       5 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m		
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)       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       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         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         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       5 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m		to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		4,8 A
Power frequency withstand voltage (wire - jacket)  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  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  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  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  ± 30 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - shield)  An operating temperature (static)  An operating temperature (fixed)  An operating temperature (fixed)  An operating temperature min. (dynamic)  Ac operating temperature max. (dynamic)  An operating temperature (fixed)  An operating temperature max. (dynamic)  An operating	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)  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  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  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  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  ± 30 °/m		2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  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  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  ± 30 °/m	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 UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Oil 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  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature min. (dynamic) Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Oil 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  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 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  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		·
Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 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  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   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.  Torsion stress ± 30 °/m		UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   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.  Torsion stress ± 30 °/m	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.  Torsion stress ± 30 °/m	Gasoline resistance	
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Oil resistance	DIN EN 60811-404   Good, application-related testing
Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Bending radius (fixed)	5 x Outer diameter
Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		5 Mio. @ 25 °C
Torsion stress ± 30 °/m		2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/m
	Torsion speed	35 cycles/min