

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

PUR 3x0.34 shielded bk UL/CSA+drag ch. 2.5m

Female straight M12, 3-pole shielded

with cable sleeves

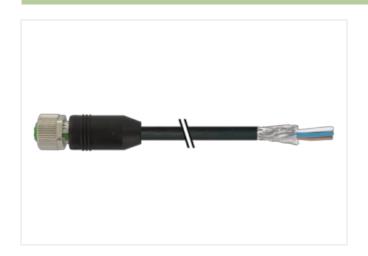
Plastic housings with good resistance against chemicals and oils.

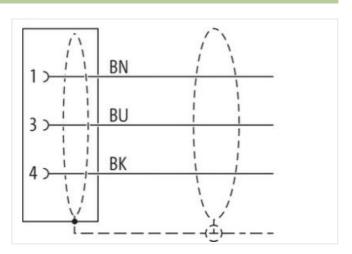
The resistance to aggressive media should be individually tested for your application. Further details on request.

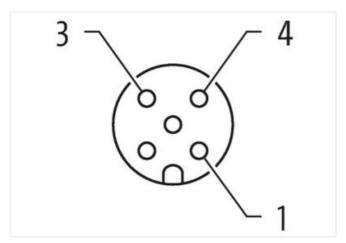
Further cable lengths on request.

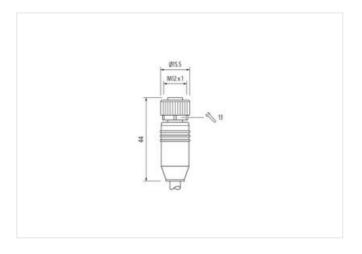
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

2,5 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: 2024-04-19



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	4048879628860
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
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	640
Cable Type	3
Jacket Color	black



## stay connected

Amount strending         1           Cable shelding (type)         copper brand, finned           Cable shelding (type)         copper brand, finned           Cable shelding (coverage)         80 %           Banding         Fleece, Foll           wire arrangement         brown, black, blue           No. or bending cycles (C-vack)         5 Mo. @ 25 °C           Cable widgin         44 g/m           Mitterial jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         5 mm           Cable-disameter (jacket)         5 mm           Tolerance outer disameter (sheath)         ± 5 %           Mutural vir insulation         PP           Automative insulation         1,25 mm           Outer disameter (sheath)         ± 5 %           Store hardness wire insulation         1,25 mm           Outer disameter (sheath)         ± 5 %           Store transcensive insulation         1,25 mm           Outer disameter (sheath)         ± 5 %           Store transcensive insulation         1,25 mm           Automative insulation (swite)         42           Diameter of single wires         0,1 mm           Conductor type (wire)         42	Type of Certificate	cURus
Cable shielding (type)         copper braid, finned           Cable shielding (coverage)         80 %           Bandring         Fleece, Foll           wite arrangement         brown, black, blue           No. of bending cycles (C-track)         5 Mo. @ 25° C           Cable weight         44 g/m           Material jacket         PUR           Foredom from ingrodients (jacket)         90 ± 5 Shore A           Freadom from ingrodients (jacket)         15 %           Outer-diameter (jacket)         5 mm           Tolarance outer diameter (sheet)         5 mm           Tolarance outer diameter (sheet)         5 mm           Amount wires         3           3         3           Amount wires         3           3         5 Shore Descriptions (sheet)           1 (Jack familiants)         70 ± 5 Shore D           Impredient freeness wire insulation         70 ± 5 Shore D           Impredient freeness wire insulation         70 ± 5 Shore D           Impredient freeness wire insulation         70 ± 5 Shore D           Impredient freeness wire insulation         70 ± 5 Shore D           Impredient freeness wire insulation         70 ± 5 Shore D           Impredient freeness wire insulation         70 ± 5 Shore D      <	Amount stranding	1
Cable shielding (coverage)         80 %           Banding         Fiseoe, Foil           wire arrangement         brown, black, blue           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Cabbe weight         44 g/m           Material jacket         PUB           Freedom from ingedients (gacket)         90 ± 5 Shore A           Freedom from ingedients (gacket)         15 mm           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (shealth)         2 5 %           Material wire insulation         PP           Annount wires         3           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,5 %           Outer diameter oblerance one insulation         1,5 %           Outer diameter oblerance wire insulation         1,5 %           Outer diameter (oblerance wire insulation)         1,5 5 %           Outer diameter (oblerance wire insulation)         1,5 % 5 Shore D           Outer diameter (oblerance wire insulation)         1,0 4 mm² <td>Stranding</td> <td>3 wires twisted</td>	Stranding	3 wires twisted
Banding         Fleece, Foli           wire arrangement         brown, black, blue           No. of bending oydes (C-track)         5 Mio, 25°C           Cable weigh         44 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           Culer-diameter (jacket)         5 mm           Tolerance outer drameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         70 ± 5 Shore D           Conductor type (wire)	Cable shielding (type)	copper braid, tinned
wire arrangement brown, black, blue  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Zable weight 44 gm  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 90 ± 5 Shore A  Freedom from ingredients (jacket) 15 mm  Tollerance outer diameter (jacket) 5 mm  Tollerance outer diameter (jacket) 25 %  Amerial wire insulation PP  Amount wires 3  Outer diameter tolerance ore insulation ± 25 %  Shore hardness 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 8.34 mm²  Material conclusion 4.54 mm²  Material conclusion 4.54 mm²  Material conclusion 6.04 mm²  Conductor crosssection (wire) 4.2  Damater of single wires 0,1 mm  Conductor trosssection (wire) 4.5 mm²  Material conclustor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 mm @ 25 °C (Inorizontal Current load capacity min, wire 6 A  Electrical resistance (increasity (standard) 15 Di NVDE 02884 4  Current load capacity min, wire 6 A  Electrical resistance (increasity (wire - wire) 2 kW @ 60 s  Power frequency withstand voltage power (wire - shreigh) 2 kW @ 60 s  AC withstand voltage power (wire - shreigh) 2 kW @ 60 s  AC withstand voltage power (wire - wire) 2 kW @ 60 s  Max. operating temperature (faste) 40 °C  Max. operating temperature (faste) 5 miles 1100 Fiz   UL 1581 § 1000 fiz   UL 1581 § 10	Cable shielding (coverage)	80 %
No. of bending cycles (C-track)         5 Mio. @ 25 °C           Cable weight         44 g/m           Material Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         5 mm           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 6 %           Shore hardness wire insulation         10 ± 5 %           Shore bardness wire insulation         10 ± 6 %           Shore bardness wire insulation         10 ± 5 %           Shore bardness wire insulation         10 ± 5 %           Shore bardness wire insulation         10 ± 5 %           Shore bardness wire insulation         10 ± 6 %           Conductor type (wire visition of wire wire wire wire wire wire wire wire	Banding	Fleece, Foil
Cable weight         44 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           Outer-diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter risulation         1.25 mm           Outer diameter risulation         1.25 mm           Outer diameter risulation         1.25 mm           Outer diameter since insulation         1.25 mm           Outer diameter since role insulation         1.25 mm           Outer diameter since insulation         1.25 mm           Outer diameter (berance core insulation)         7.25 shore D           Ingredient freeness wire insulation         1.25 mm           Amount strands (wire)         42           Diameter of single wires         0.1 mm           Conductor or reasses wire insulation         1.4 mm           Amount strands (wire)         42           Diameter of single wires         0.1 mm           Conductor varsessection (wire)         3.4 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)	wire arrangement	brown, black, blue
Material jacket	No. of bending cycles (C-track)	5 Mio. @ 25 °C
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, allicone-free           Outer-diameter (glacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter tolerance core insulation         1,25 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         40 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         42           Damater of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         5 stranded copper wire, bare           Conductor type (wire)         5 mg 25 °C) Invisional           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 µkm @ 20 °C           Nominal voltage power (wire - shield)         2 k	Cable weigth	44 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Matorial wire insulation         FP           Amount wires         3           Outer diameter briesalation         1,25 mm           Outer diameter brolerance core insulation         70 ± 5 Shore D           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         16 ± 6           Amount strands (wire)         42           Dameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Adarrial canductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Current load capacity (standard)         10 DIN VEB 2094 4           Current load capacity wint, wire         6 A           Electrical resistance line constant wire         5 °C Ωkm @ 20 °C           Nominal voltage power (wire - shield)         2 kV ⊗ 60 s           AC withstand voltage power (wire - shield)         2 kV ⊗ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Opera	Material jacket	PUR
Outer dameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer dameter insulation         1,25 mm           Outer dameter 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 rossection (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           Current load capacity (standard)         to DIN VDE 0299-4           Current load capacity (standard)         to DIN VDE 0299-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 °C/km @ 20 °C           Nominal voltage power (wire - shield)         2 kV @ 60 s           Power frequency withstand voltage power (wire - shield)         2 kV @ 60 s           Min. operating temperature (shed)         80 °C / 90 °C @ 10000 h Operation	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         10 ± 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           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 O/km @ 20 °C           Nominal voltage power AC max.         300 V           AC withstand voltage power (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 min. (dynamic)         25 °C	Outer-diameter (jacket)	5 mm
Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         r0 ± 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           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           Nominal voltage power (wire - sheld)         2 kV @ 60 s           Power frequency withstand voltage power (wire - wire)         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           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         Good, applica		±5%
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 crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded capacity (sitendard)           Current load capacity (sitendard)         to DIN VDE 0288-4           Current load capacity (sitendard)         to DIN VDE 0288-4           Electrical resistance line constant wire         57 Økm @ 20 °C           Nominal voltage power AC max.         300 V           AC withstand voltage power (wire - wire)         2 kV @ 60 s           AC withstand voltage power (wire - wire)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation	Material wire insulation	PP
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           Taversing distance (C-track)         5 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           AC withstand voltage power (wire - shield)         2 kV @ 60 s           Power frequency withstand voltage power (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)         25 °C           Operating temperature min. (dynamic)         20 °C @ 0000 h Operation           UV resistance         DIN EN ISO 4892-2 A	Amount wires	3
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           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6 A           Electrical resistance line constant wire         57 02km @ 20 °C           Nominal voltage power (wire - shield)         2 kV @ 60 s           Power frequency withstand voltage power (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 min. (dynamic)         -25 °C           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         Good, application-related testing           Oil resistance         Good, application-related testing      <	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 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing IDIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Fleeding radius (dynamic) 10 x Outer diameter Fleeding radius (dynamic) 35 cycles/min	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  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  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s  AC withstand voltage power (wire) 2 kV @ 60 s  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  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  Gasoline resistance Good, application-related testing  Bending radius (dynamic) 10 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed	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           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           Nominal voltage power AC max.         300 V           AC withstand voltage power (wire - sheld)         2 kV @ 60 s           Power frequency withstand voltage power (wire - wire)         2 kV @ 60 s           Min. operating temperature (stitic)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FTZ   UL 1581 § 1090   IEC 60332-2-2           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 × Ou	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity (standard)  Current load capacity min. wire  6 A  Electrical resistance line constant wire  57 Økm @ 20 °C  Nominal voltage power AC max.  300 V  AC withstand voltage power (wire - shield)  2 kV @ 60 s  Power frequency withstand voltage power (wire - shield)  AC withstand voltage power (wire - wire)  2 kV @ 60 s  Min. operating temperature (fixed)  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  10 V resistance  DIN EN ISO 4892-2 A  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  Gasoline resistance  Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (fixed)  10 x Outer diameter  No. of torsion cycles  35 cycles/min	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  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  Nominal voltage power AC max.  AC withstand voltage power (wire - shield)  2 kV @ 60 s  Power frequency withstand voltage power (wire - wire)  2 kV @ 60 s  AC withstand voltage power (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)  25 °C  Operating temperature max. (dynamic)  40 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  35 cycles/min	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  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  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - jacket) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s  Min. 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  UV resistance DIN EN ISO 4892-2 A  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 Good, application-related testing DIN EN 60811-404  Bending radius (fixed) 5 × Outer diameter  Bending radius (fynamic) 10 × Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Traversing distance (C-track) 5 m @ 25 °C   horizontal  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  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s  AC withstand voltage power (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) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)  Current load capacity min. wire  6 A  Electrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - shield)  AC withstand voltage power (wire - wire)  2 kV @ 60 s  AC withstand voltage power (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 max. (dynamic)  25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed	Conductor type (wire)	strand class 6
Current load capacity min. wire       6 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - wire)       2 kV @ 60 s         AC withstand voltage power (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)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         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       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of torsion cycles       2 Mio.         Torsion speed       35 cycles/min	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - yield) 2 kV @ 60 s  AC withstand voltage power (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) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  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 Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 10 × Outer diameter  No. of torsion speed 35 cycles/min	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max.  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - shield)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - shield)  AC withstand voltage power (wire wite)  AC withstand voltage power (wite)  AC withstand voltage power (wire wite)  AC withstand voltage power (wire withstand voltage power (wire wite)  AC withstand voltage power (wite)  AC withstand vol	Current load capacity min. wire	6 A
AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - jacket) 2 kV @ 60 s  AC withstand voltage power (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) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Power frequency withstand voltage power (wire - wire)  2 kV @ 60 s  AC withstand voltage power (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)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed	Nominal voltage power AC max.	300 V
(wire - jacket)       2 kV @ 60 s         AC withstand voltage power (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)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         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       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of torsion cycles       2 Mio.         Torsion speed       35 cycles/min	AC withstand voltage power (wire - shield)	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  UV resistance  DIN EN ISO 4892-2 A  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  35 cycles/min		2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  OIN EN ISO 4892-2 A  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  35 cycles/min	AC withstand voltage power (wire - wire)	2 kV @ 60 s
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  35 cycles/min	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A  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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Operating temperature min. (dynamic)	-25 °C
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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  35 cycles/min	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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         No. of torsion cycles       2 Mio.         Torsion speed       35 cycles/min	UV resistance	DIN EN ISO 4892-2 A
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  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of torsion cycles       2 Mio.         Torsion speed       35 cycles/min	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min	Bending radius (fixed)	5 x Outer diameter
Torsion speed 35 cycles/min	Bending radius (dynamic)	10 x Outer diameter
· · · · · · · · · · · · · · · · · · ·	No. of torsion cycles	2 Mio.
Torsion stress ± 30 °/m	Torsion speed	35 cycles/min
	Torsion stress	± 30 °/m