

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

PUR 4x0.34 shielded bk UL/CSA+drag ch. 3m

Male 90° M12, 4-pole shielded A-coded

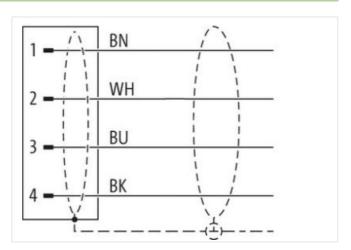
Plastic housings with good resistance against chemicals and oils.

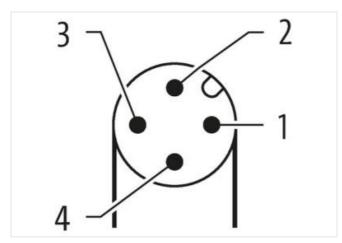
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

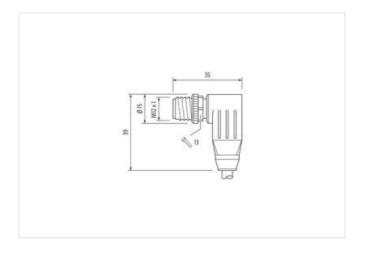
## **Link to Product**

## Illustration























Cable length

3 m

Side 1

0,6 Nm Tightening torque



Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	gold plated
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	4048879559676
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
Diagnostics	
Status indication LED	no
Installation   Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
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	



stay connected

Additional condition temperature range Contominy  Product standard  DIN EN 61076-2-101 (M12)  Installation (Cable Cable desentification  Gale (September 1)  Gale (September 1)  Gale (September 1)  Jacket Coor  Park Amount stranding  1  Stranding  Awes twisted Cable shielding (ptop)  Cable shielding (ptop)  Cable shielding (ptop)  Cable shielding (ptop)  Gale shielding (ptop)  Gale shielding (soverage)  Bridging  Fleace, Foil  Wire arrangement  No. of bornding cycles (C-track)  No. of bornding cycles (C-track)  No. of bornding cycles (C-track)  Software Software Software (P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-	Operating temperature min.	-25 °C
Control standard         DIN EN 61076-2-101 (M12)           Product standard         DIN EN 61076-2-101 (M12)           Installation (Cable         Cable identification         641           Cable identification         641         Cable identification           Cable in Express         Discontinue         Cable identification           Type of Certificate         cUBus         Cable identification           Amount standing         1         Cable identification           Streading         4 wires twisted           Cable indexing (yee)         copper brail. timed           Saming         Fleece, Foil           Fleece, Foil         Fleece, Foil           Cable indexing (yeek)         5.0 g yr           No. of bending (yeek)         5.0 g yr           Cable indexing (yeek)         5.0 g yr           Cable weight         5.0 g yr           Cable weight	Operating temperature max.	85 °C
Installation   Cable	Additional condition temperature range	depending on cable quality
Cable infectation   Cable   Cable infectation   Cable infectation   Cable in Capter   Salacity	Conformity	
Cable infectation   Cable   Cable infectation   Cable infectation   Cable in Capter   Salacity	Product standard	DIN EN 61076-2-101 (M12)
Cabbis Identification         641           Gabbis Type         3           Jackel Color         black           Type of Certificate         cURUs           Amount stranding         1           Skending         4 wires twisted           Cabbe shelding (type)         copper braid, finned           Cabbe shelding (verwage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         5 Mc, @ 25 °C           Cabbe weight         50.6 g/m           Material jacket         PLR           Shore value (laws)         15 Mc           Shore A         Freedom from ingredients (gacket)           Outer-diameter (lawket)         15 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 fm           Outer diameter insulation         1,5 fm           Outer diameter insulation         1,5 fm		
Cable Type         3           Jacker Color         black           Jacker Color         black           Type of Conflicate         ∪URus           Amount stranding         1           Standing         4 wires twisted           Cable shielding (coverage)         80 %           Banding         Fleece, Foll           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         5 Mic. @ 25 °C           Gabbe weight         50 6 g/m           Malaterial jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.3 mm           Torierance outer diameter (sheath)         ± 5 %           Material were insulation         PP           Amount wires         4           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter (sheath)         ± 5 %           Duameter of single wire         4           Outer diameter (sheath)         ± 5 %           Duameter of single wire         1,0 mm           Conduct	·	•
Jacket Color   Diack   Diack   Type of Certificate		
Type of Certificate cUFus Amount risranding 1 Amount risranding 4 wires wisted Cabbe shielding (type) coppor braid, tinned Cabbe shielding (coverage) 80 % Banding Fleen, Foil Wire arrangement brown, black, blue, white No. of bending cycles (C-track) 5 flive, 62 th CQ Cabbe weight 50,6 g/m Material packet PUR Shore hardness jacket PUR Shore hardness jacket 90 5 5 Shore A Freedom from ingredients (gacket) 15 slive, 62 th CQ Carbier (included to the shore hardness shore the shore hardness packet 15 slive, 62 th CQ Carbier (included to the shore hardness packet 15 slive) 15 slive A Freedom from ingredients (gacket) 15 slive A Material wire insulation PP Amount wires 4 Couter diameter (gheath) 2 slive A Material wire insulation PP Amount wires 4 Couter diameter insulation 12 slive Time A Dutter diameter insulation 14 slive Time A Dutter diameter insulation 15 slive Time A Dutter diameter insulation 16 slive Time A Dutter diameter insulation 17 slive Shore D Dimeter of slingle wise 0, 1 mm Conductor type (wire) 42 Dimeter of slingle wise 0, 1 mm Conductor type (wire) 15 slive D Dimeter of slingle wise 0, 1 mm Conductor type (wire) 15 slive D Dimeter of slingle wise 0, 1 mm Conductor type (wire) 15 slive D Dimeter of slingle wise 0, 1 mm Conductor type (wire) 15 slive D Dimeter of slingle wise 0, 1 mm Conductor type (wire) 15 slive 0		
Amount stranding 1 Stranding 4 wires twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fleece, Foll wire arrangement brown, black, blue, white No. of bending cycles (C-track) 5 Mio. @ 25 °C Cable weight 50,6 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Material jacket 90 ± 5 Shore A  Shore landing ender (jacket) 5,3 mm Tolerance outer diameter (jeaket) 5,3 mm Autorial wire insulation 1 ± 5 %  Material wire outer diameter (jeaket) 5,3 mm  Tolerance outer diameter (jeaket) 1 ± 5 %  Autorial wire insulation PP Anount wires 4  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 70 ± 5 Shore D  Ingredient renease wire insulation 1 ± 5 %  Dameter of singles wires 0.1 mm  Conductor cossection (wire) 0.34 mm² Material conductor wire Siranded copper wire, bare Conductor type (wire) strand class 6  Conductor (Frack) 5 m @ 25 °C Indirectual  Current load capacity (standard) 1 to DIN VDE Ca98+4  Current load capacity (standard) 1 to DIN VDE Ca98+4  Current load capacity (standard) 2 kV @ 60 s  Max. operating temperature (itixed) 2 kV @ 60 s  Min. operating temperature (itixed) 30 of C @ 10000 h Operation  Operating temperature min. (dynamic) 40 of Code, application-related testing  Din Rel 660332-2 k2 [1 1001 L1581 § 1100 FT2  chemical resistance		
Stranding		
Cable shielding (roverage)         80 %           Cable shielding (coverage)         80 %           Bandring         Fleece, Foil           wire arrangment         brown, black, blue, white           No. of bending cycles (C-track)         5 Min. @ 25 °C           Cable weight         50.6 g/m           Material jacket         PUR           Shore hardress jacket         90 ± S Shore A           Freadom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         5.3 mm           Toflerance outer diameter (sheath)         5.3 mm           Toflerance outer diameter (sheath)         2.5 %           Material wire insulation         PP           Amount wires         4           Cuter diameter insulation         1,25 mm           Outer diameter insulation         70 ± S Shore D           Ingredient freeness wire insulation         70 ± S Shore D           Ingredient freeness wire insulation         70 ± S Shore D           Ingredient freeness wire insulation         70 ± S Shore D           Ingredient freeness wire insulation         70 ± S Shore D           Ingredient freeness wire insulation         70 ± S Shore D           Ingredient freeness wire insulation         70 ± S Shore D		
Cable shiekling (coverage)         80 %           Banding         Fleece, Foil           wie arrangement         brown, black, blue, white           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Cable weight         50.6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         180 mm           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (seketh)         ± 5 %           Material wire insulation         PP           Annount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Impredient freeses wire insulation		
Banding         Fleece, Foil           wire arrangement         brown, Iblack, blue, white           No. of bending cycles (C-track)         5 Mio, @ 25 ° C           Cable weighh         50.6 g/m           Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.3 mm           Toflerance unter diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter toflerance core insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,25 mm           Outer diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,3 mm²           Material conductor wire         5 m@ 25 °C   free, halogen-free, silicone-free           Conductor trype (wire)         3 mm²           Traversing distance (C-track)         5 m@ 25 °C   fonizontal           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)		
wire arrangement brown, black, blue, white No. of bending cycles (C-track) 5 Mio. @ 25° C Cable weight 50.6 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket [sacket] 51.5 hore A Freedom from ingredients (jacket) 53.3 mm Tolerance outer diameter (jacket) 54.5 mm Tolerance outer diameter (jacket) 55.5 mm Tolerance outer diameter insulation PP Amount wires 4 Tolerance ore insulation PP Tolerance over insulation 1.25 mm Tolerance over		
No. of bending cycles (C-track)         5 Mio. @ 25 °C           Cable weight         50.6 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)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter (insulation insulation)         1,24 mm           Mala Marchal (insulation insulation)         1,25 mm </td <td></td> <td>, -</td>		, -
Cable weigth         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           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Under diameter 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 rorssection (wire)         0,34 mm²           Material conductor vire         Stranded copper wire, bare           Conductor type (wire)         stranded capper wire, bare           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity rim: wire         4,8 A           Electrical resistance line constant wire         5,70 km @ 20 °C           Nominal voltage power (wire - shield)         2 kV @ 60 s           AC withstand voltage power	· ·	
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)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %.           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter rolerance core insulation         5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,25 mm           Ingredient freeness wire insulation         42           Diameter of single wires         0,1 mm           Conductor of single wires         0,1 mm           Onductor of single wires         0,1 mm           Material conductor wire         Stranded copper wire, bare           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 firm, wire         4.8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power (wire - shield)		
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter Insulation         1,25 mm           Outer diameter 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           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to Nick (application)         k A           Electrical resistance line constant wire         57 Okm @ 20 °C           Nominal voltage power (wire - sh		
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         bad-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 crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-rack)         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 Ωkm @ 20 °C           Nominal voltage power (wire - shield)         2 kV @ 60 s           Power frequency withistand voltage power (wire - wire)         2 kV @ 60 s		<u> </u>
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 loterance 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           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           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		
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         19 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)         \$ 1 m² 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 298-4           Current load capacity min. wire         4,8 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           Power frequency withstand voltage power (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (iffeed)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 489		
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         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 copper wire, bare           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire value)         2,8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power (wire - shield)         2,4 V @ 60 s           Power frequency withstand voltage power (wire - shi		· · · · · · · · · · · · · · · · · · ·
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         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor vire         Stranded copper wire, bare           Conductor vire (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           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 (wire - wire)         4,8 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           AC withstand voltage power (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (sta		
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)         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         4,8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power (wire - shield)         2 kV @ 60 s           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 max. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h O		
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           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         4.8 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 max. (dynamic)         25 °C		
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)  324 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  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 \( \text{Du/m} \text{@ 60 s} \)  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 (static)  40 °C  Max. operating temperature (static)  40 °C  Max. operating temperature (isted)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  LEC 60332-2-2   UL 1581 § 1909   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing		· · ·
Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 6  Traversing distance (C-track)  S m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDE 0298-4  Clicetrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power (wire - shield)  2 kV @ 60 s  Power frequency withstand voltage power (wire - wire)  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 max. (dynamic)  2 br S C ©  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing	Outer diameter tolerance core insulation	
Amount strands (wire)  Amount strands (wire)  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  O,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  4,8 A  Electrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  AC withstand voltage power (wire - shield)  AC withstand voltage power (wire - shield)  AC withstand voltage power (wire - wire)  AC withstand voltage power (	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 4,8 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 - 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 min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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         4,8 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 max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           UV resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing	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         4,8 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         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing	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 4,8 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 - 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 IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing	Conductor crosssection (wire)	0,34 mm²
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 \( \Omega / \text{km} \) @ 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 IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing	Material conductor wire	Stranded copper wire, bare
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  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 IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 \( \textit{ D/km} \) \( \textit{ Q 20 °C} \)  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV \( \textit{ 60 s} \)  Power frequency withstand voltage power (wire - wire) 2 kV \( \textit{ 60 s} \)  AC withstand voltage power (wire - wire) 2 kV \( \textit{ 60 s} \)  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C \( \textit{ 0 10000 h Operation} \)  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C \( \textit{ 0 10000 h Operation} \)  UV resistance DIN EN ISO 4892-2 A  Flame resistance IEC 60332-2-2   UL 1581 \( \textit{ 1 190   UL 1581 \( \textit{ 1 100 FT2} \)  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing	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 - 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       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing	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)  2 kV @ 60 s  2 kV @ 60 s  AC withstand voltage power (wire - wire)  2 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  Operating temperature (fixed)  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  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Oil resistance related testing	Current load capacity min. wire	4,8 A
AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - shield)  AC withstand voltage power (wire - wite)  AC withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite)  AC woll and withstand voltage power (wite - wite	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Power frequency withstand voltage power (wire - jacket)  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  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing	Nominal voltage power AC max.	300 V
(wire - jacket)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing	AC withstand voltage power (wire - shield)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  B0 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing	Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing	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 IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing	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  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing	Operating temperature min. (dynamic)	-25 °C
Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing	Operating temperature max. (dynamic)	<u> </u>
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing	UV resistance	
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing	Flame resistance	
Oil resistance DIN EN 60811-404   Good, application-related testing	chemical resistance	······································
Bending radius (fixed) 5 x Outer diameter	Oil resistance	
	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
Torsion stress	± 30 °/m