

## M12 female 90° A-cod. with cable

PUR 3x0.75 gy UL/CSA+drag ch. 10m

Female 90° M12, 3-pole 2× LED (PNP)

Invers-polarity protection

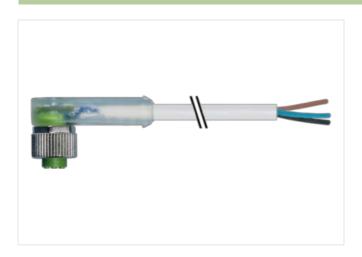
Plastic housings with good resistance against chemicals and oils.

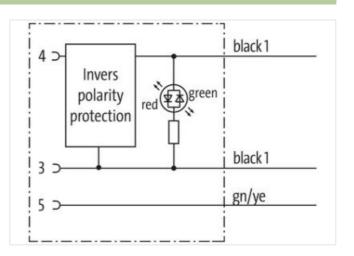
The resistance to aggressive media should be individually tested for your application. Further details on request.

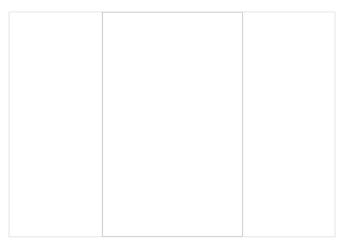
Further cable lengths on request.

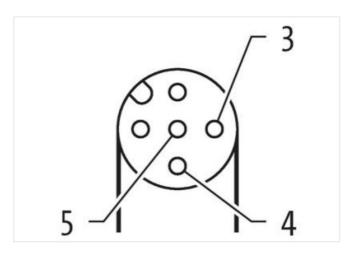
## **Link to Product**

## Illustration









Product may differ from Image





Cable length 10 m

Side 1

Tightening torque 0,6 Nm



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
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	4048879462143
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	20,4 V
Operating voltage DC max.	27,6 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, red
Installation   Connection	
Mounting set	M12 x 1
	WILE A I
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
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	
	Drotost the connectors by quitable managers from machanical leads as a bush-sure of sales from
Note on strain relief  Note on bending radius	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 endangered by excessive bending forces.
	ondangered by exceeding bending toroes.

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-04



stay	connected
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Printing color of wire insulation white (isolation black)  Jacket Color gray  Jrype of Certificate CURUs  Amount stranding 1  Stranding 3 wires wissed  Wire arrangement black 1, black 2, green-yellow  Troversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 56 1, gm  Meterial jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 10 ± 5 °S. mm  Tolerance outer flaunders (jacket) 5.9 mm  Outer diameter insulation PP  Amount wires 3 3  Outer diameter insulation 1,85 mm  Outer diameter insulation 7 5 °S. Shore D  Ingredient freeness wire insulation 1,85 mm  Outer diameter insulation 7 °C Shore D  Ingredient freeness wire insulation with (jacket) 42  Dameter of single wires Conductor or singulation with (jacket) 42  Dameter of single wires Conductor or singulation 40,15 mm  Material conductor wire (jacket) 10,15 mm  Conductor type (wire) 5,5 mm?  Material conductor wire Strand class 6  Normal voltage AC max. 300 V  Current load capacity (jandards) 10 ID IN VIDE 0296-4  Current load capacity (jandards) 12 A °C  Electrical resistance (inconstructive micro) 2,5 kW @ 60 s  Min. operating temperature (micro) 40 outer diameter inconstructive Micro) 2,5 kW @ 60 s  Power frequency writestand voltage (wire - jacket) 10 ID IN VIDE 0296-4  Current load capacity (jandards) 10 ID IN VIDE 0296-4  Current load capacity (jandards) 2,5 kW @ 60 s  Power frequency writestand voltage (wire - jacket) 10 ID IN VIDE 0296-1 (jandards) 10 ID IN VIDE 0296-1 (jandar	Cable identification	236
Printing color of wire insulation	Cable Type	
Jacket Color Type of Certificate  CPRus  CPRus  CPRus  CPRus  Amount stranding  1 stranding  3 wires twisted  Stranding  3 wires twisted  Weie arrangement  black 1, black 2, green-yellow  Traversing distance (C-track)  10 m @ 25 °C; Ihorizontal  Cable weight  55.1 gm  Material jacket  PUR  Shore hardness jacket  PUR  Shore hardness jacket  10 ± 5 Shore A  Freedom from ingredients (jacket)  10 ± 5 Shore A  Freedom from ingredients (jacket)  10 ± 5 Shore A  Tolerance outer diameter (sheath)  10 ± 5 %  Material wire insulation  PP  Amount wires  3   Coulder diameter (jacket)  5 9 %  Shore hardness wire insulation  PP  Amount wires  3   Coulder diameter (jacket)  70 ± 5 Shore A  Shore hardness wire insulation  70 ± 5 Shore A  Shore hardness wire insulation  10 µgredent freeness wire i		
Type of Certificate  Amount stranding  1		· · · · · · · · · · · · · · · · · · ·
Amount stranding   1		
Stranding         3 wirce twisted           wire arrangement         black I, black 2, green-yellow           Traversing distance (C-track)         10 m @25 °C   horizontal           Gable weigth         56.1 g/m           Matterial jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, allicone-free           Outer-diameter (jacket)         5,9 mm           Toribarance outer diameter (shallor)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter insulation         1,85 mm           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,85 mm           Printing optior of wire insulation         1,85 mm           Printing optior of wire insulation         1,85 mm           Printing optior of wire insulation         1,85 mm           Manual strands (wire)         42           Diameter of single wires         0,15 mm           Conductor type (wire)         5 m²           Strand class 6         Nominal voltage (wire)           Reciprical virial		
wire arrangement    Diack 1, black 2, green-yellow   Traversing distance (C-track)   10 m @ 25 °C   horizontal   Soli ym   Material jacket    PUR     Shore hardness jacket  PUR     Shore hardness jacket  PUR     Shore hardness jacket    90 ± 5 Shore A     Freedom from ingredients (jacket)   15 %     Material wire insulation   25 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   18 % mm     Outer diameter insulation   18 % mm     Outer diameter insulation   25 %     Material wire insulation   70 ± 5 Shore D     Impedient freeness wire insulation   10 ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Impedient freeness wire insulation   42 %     Printing color of coloration   42 %     Printing color of coloration   42 %     Printing color of wire insulation   43 %     Printing color of wire insulation   44 %     Printing color of wire insulation   45 %     Pr		· · · · · · · · · · · · · · · · · · ·
Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weight         56,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmum-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 %           Normal strands (wire)         42           Diameter of single wires         0.15 mm           Conductor rossection (wire)         42           Diameter of single wires         0.15 mm           Conductor vive (wire)         5 tranded copper wire, bare           Material conductor wire         5 tranded copper wire, bare           Conductor Jyae (wire)         5 tranded copper wire, bare           Conductor Jyae (wire)         5 tranded copper wire, bare           Conductor type (wire)         5 tranded copper wire, bare <td></td> <td></td>		
Cable weight         56,1 g/m           Material jacket         PUR           Material jacket         9U 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.9 mm           Toflerance under diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter tolerance core insulation         1.85 mm           Outer diameter insulation         1.85 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Shore hardness wire insulation         70 ± 5 Shore D           Printing color of wire insulation         vihite (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crossection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand dass 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 928-4           Current load capacity (standard)         to DIN VDE 928-4           Electrical resistance with stand voltage (wire - igicket)		
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)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter tolerance core insulation         1,85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor rossection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand diass 6           Nominal voltage AC max         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min wire         12 A           Electrical resistance line constant wire		
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter lorlerance core insulation         1,85 mm           Outer diameter lorlerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         white (solation black)           Armount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor reassection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor by (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load apacity min. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           P		
Freedom from ingredients (jacket)         lead-free, cardmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter rolerance core insulation         1,85 mm           Under diameter folerance core insulation         1,85 mm           Under diameter solver insulation         1,85 mm           Where hardness wire insulation         1,85 mm           Ingredient freeness wire insulation         1,85 mm           Ingredient freeness wire insulation         1,85 mm           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         1,5 mm           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         50 mm           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)		
Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter insulation         ± 5 %           Shore bardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         while (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity wirin. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Max. operating temperature (fixed)         80 °C / 90 °C @ 100000 h Operation      <		
Tolerance outer diameter (sheath)		
Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1.85 mm           Uoter diameter tolorance 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           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor vives         Stranded copper wire, bare           Conductor vive (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         2,5 kV @ 60 s           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)		·
Amount wires         3           Outer diameter insulation         1.85 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           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN NDE 0298-4           Current load capacity (standard)         to DIN NDE 0298-4           Current load capacity (standard)         to DIN NDE 0298-4           Current load capacity (wire - wire)         2,5 kV @ 60 s           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating		
Outer diameter insulation         1,85 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           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strande capse 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         2.5 kV @ 60 s           Power frequency withstand voltage (wire - 25 kV @ 60 s           Power frequency withstand voltage (wire - 36 kV @ 60 s           Power frequency withstand voltage (wire - 36 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 min. (dynamic)         25 °C           Operating temperature (static)         80 °C / 90 °C @		
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           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor vires         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire)         2,5 kV @ 60 s           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         30 °C / 90 °C @ 10000 h		
Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min, wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kW @ 60 s           Power frequency withstand voltage (wire - igacket)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Clamp temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         Good, application-related testing		· · · · · · · · · · · · · · · · · · ·
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor rossssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Clurent load capacity (ini. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iack) 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 Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 68811-444 Good, application-related testing Bending radius (fixed) 10 × Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m		
Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iack) 80 °C / 90 °C @ 10000 h Operation Perating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 2-25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090   EC 60332-2-2   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-44   Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 10 × Outer diameter  Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m		
Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - include)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - include)         2,5 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         UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, app		<del>-</del>
Diameter of single wires  Onductor crosssection (wire)  O,75 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  12 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - ack wire)  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - ack wire)  AC withstand voltage (wire - wire)  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  AC withstand voltage (wire - wire)  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  AC withstand voltage (wire - wire)  AC withs	Printing color of wire insulation	· · · · · · · · · · · · · · · · · · ·
Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1090   IEC 60332-2-2   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           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         10 Mio. @	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 25 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 40 °C  Max. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) 25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 10 kio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Diameter of single wires	·
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         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         -2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         -40 °C           Max. 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 temistance         UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           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           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         10 Mio. @ 25 °C           No. of torsion cycles         2 Mio. </td <td>Conductor crosssection (wire)</td> <td>•</td>	Conductor crosssection (wire)	•
Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  Max. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 10 Mio. @ 25 °C  No. of torsion cycles ± 180 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)  Current load capacity min. wire  12 A  Electrical resistance line constant wire  26 Ω/km @ 20 °C  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - apacket)  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)  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  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  Travel speed (C-track)  No. of torsion cycles  ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2.5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2.5 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 § 1090   IEC 60332-2-2   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         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 2,5 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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  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) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - jacket)  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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  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)  No. of torsion cycles  ± 180 °/m	Current load capacity min. wire	12 A
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  More operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   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  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  10 Mio. @ 25 °C  No. of torsion cycles  ± 180 °/m	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Min. operating temperature (static)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   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  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  10 Mio. @ 25 °C  No. of torsion cycles  ± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  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  Travel speed (C-track)  10 Mio. @ 25 °C  No. of torsion cycles  ± 180 °/m	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  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)  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090   IEC 60332-2-2   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  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  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)  10 Mio. @ 25 °C  No. of torsion cycles  ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
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) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/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) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
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) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/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) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Oil resistance	DIN EN 60811-404   Good, application-related testing
Travel speed (C-track) 10 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min