

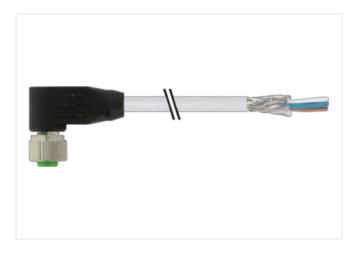
M12 female 90° A-cod. with cable shielded

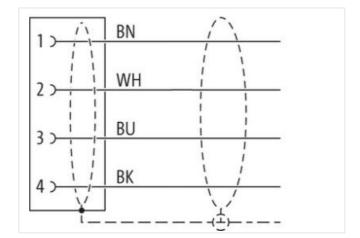
PVC 4x0.34 shielded gy 20m

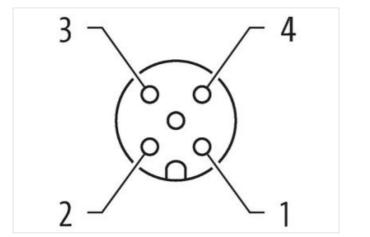
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

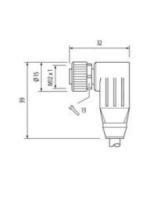
Link to Product

Illustration









Product may differ from Image



20 m

0,6 Nm

Cable length

Side 1

Tightening torque

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: 2024-05-19

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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	4048879199223
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 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)	
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	· · · · · · · · · · · · · · · · · · ·
•	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	brown, black, blue, white
Cable identification	330

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Amount stranding 1 Stranding factor min. 74 mm Stranding factor min. 74 mm Stranding factor max. 74 mm Stranding factor max. 74 mm Gable shielding (coverage) 85 % Banding Rece, Foll wire arrangement btows, black, blue, white Cable shielding (coverage) 85 % Banding Rece, Foll Wire arrangement btows, black, blue, white Cable weigh 53.9 g/m Material Jacket PVC Strone hardness jacket 85 Store A Freedem from ingredients (jacket) 1.6 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.6 % Shore hardness wire insulation 1.6 % Mount wires 0.1 mm Conductor cossessetion (wire) 0.34 mm² Material ordicutor wire Strane	Jacket Color	gray
Stranding tactor min. 74 mm Stranding tactor max. 74 mm Cable shelding (coverage) 65 % Banding Pieace, Foil wire arrangemont brown, black, blue, white Cable weight 53,9 g/m Material jackt PVC Shore hardness jackat 85 Shore A Freedom from ingredients (jacket) lead-free, cadmum-free, CFC-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) 1,5 % Material jacket 4 Outer diameter (sheath) 2,5 % Shore hardness is jacket 5,9 mm Tolerance outer diameter (sheath) 2,5 % Material wire insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 8,5 Shore A Impredient treeness wire insulation 8,5 Shore A Diameter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm ² Material avoid (accounce) 600 V Max. rade voltage (conductor - conductor) 500 V Max. rade voltage (conductor - conductor) 500 V Current load capacity (standard) 0 IN VDE D298 4 Current load capacity (standard) 1	Amount stranding	1
Stranding factor max. 74 mm Cable shielding (type) copper braid, finned Cable shielding (type) 85 % Banding Fleece, Foll wire arrangentent brown, black, blue, white Cable shielding (coverage) 85 % Banding Fleece, Foll wire arrangentent brown, black, blue, white Cable weight 53, 9g /m Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredients (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation 1,5 % Shore hardness wire insulation 15 % Shore hardness wire insulation 15 % Shore hardness wire insulation 1,5 % Outer diameter insulation 1,4 mm Outer diameter insulation 1,6 mm Conductor wires wire insulation 1,5 % Brancher Swire insulation 1,6 %	Stranding	4 wires twisted
Cable shielding (type) copper braid, tinned Cable shielding (coverage) 85 % Banding Fleece, Foll wire arrangement brown, black, blue, white Cable wight 53.9 g/m Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredients (jacket) 1ead-free, carmium-free, CFC-free Outer diameter (jacket) 5.9 mm Tolerance outer diameter (shealth) ± 5 % Material jacket 8 Shore A Outer diameter (shealth) ± 5 % Material wire insulation 1.4 mm Outer diameter (shealth) ± 5 % Shore hardness wire insulation 1.4 mm Outer diameter (shealth) ± 5 % Shore hardness wire insulation lead-free, carmium-free, CFC-free Amount strands (wire) 42 Diameter diage wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor yoe (wire) 15 M W @ 60 S Max. rated votage (conductor - conductor) 500 V	Stranding factor min.	74 mm
Cable shielding (coverage) 85 % Banding Fleece, Fol wire arrangement brown, black, blue, white Cable weigth 53,9 g/m Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredients (acket) lead-free, cadmium-free, CFC-free Outer-diameter (acket) 5,9 mm Tolerance outer diameter (sheath) 1,5 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation 1,5 % Shore hardness wire insulation 1,5 % Shore hardness wire insulation 1,6 mm Outer diameter loserance once insulation 1,6 mm Conductor tolerance outer sization 4 0 Outer diameter loserance outer sization 1,6 % Shore hardness wire insulation 1,8 fore A Conductor tolerance outer outer sization 4 0 Conductor type (wire) 0,1 mm Conductor type (wire) 0,34 mm² Material conductor vises wire insulation 1,6 MV <t< td=""><td>Stranding factor max.</td><td>74 mm</td></t<>	Stranding factor max.	74 mm
Banding Fleece, Foil wire arrangement brown, black, blue, white Cable weigh 53,9 g/m Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredients (jacket) [s.9 mm Order-diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Outer diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Outer diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Outer diameter issulation 1,4 mm Outer diameter issulation 1,4 mm Outer diameter issulation 16 % Shore hardness wire insulation 16 % Diameter of singe wires 0,1 mm Conductor type (wire) 0,34 mm² Material conductor wire Strand class 6 Max. rated voltage (conductor- conductor) 500 V Current load capacity (standard) to DIN VDE 0298-4	Cable shielding (type)	copper braid, tinned
wire arrangement brown, black, blue, white Cable weight 53.9 g/m Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free Outer diameter (jacket) 5.9 mm Tolerance outer diameter (jacket) 5.9 mm Tolerance outer diameter (jacket) 5.9 mm Outer diameter (jacket) 5.9 mm Outer diameter insulation PVC Amount wires 4 Outer diameter tolerance core insulation 1.4 mm Outer diameter insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A Ingredient freeness wire insulation 42 Diameter of single wires 0.1 mm Conductor rossection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor voltage (conductor - conductor) 500 V Max. rated voltage (conductor - conductor) 500 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4	Cable shielding (coverage)	85 %
Cable weight 53.9 g/m Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CPC-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation ± 5 % Material wire insulation ± 5 % Shore hardness wire insulation ± 5 % Material wire insulation ± 5 % Shore hardness wire insulation iead-free, cadmium-free, CPC-free Amount stands (wire) 42 Diameter of single wires 0,1 mm Conductor rossection (wire) 0,34 mm ² Material conductor wire Strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0296-4 Current load capacity (standard) to DIN VDE 0292-4 Current load capacity (standard) to DIN VDE 0292 °C AC withstand voltage (wire - shield) 1,5 kV @ 6	Banding	Fleece, Foil
Material jacket PVC Shore hardness jacket 85 Shore A Freedom from ingredents (jacket) lead-free, cadmium-free, CFC-free Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) 1.5 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter lolerance core insulation 1.5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A Conductor crossection (wire) 0.34 mm ² Diameter of single wires 0,1 mm Conductor vige (conductor - conductor) 500 V Max. rated voltage (conductor - orground) 300 V Current load capacity (stinadard) to DIN VDE 0298-4 Current load capacity (windwire - wire) 1.5 kV @ 60 s Min. operating temperature (wiked)	wire arrangement	brown, black, blue, white
Shore hardness jacket 85 Shore A Freedom tom ingredients (jacket) lead-fee, cadmium-free, CFC-free Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (jacket) 5.9 mm Material wire insulation PVC Amount wires 4 Outer diameter (jacket) 1.5 % Shore hardness wire insulation 1.4 mm Outer diameter tolerance core insulation 4 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A Maunent stands (wire) 42 Diameter of single wires 0,1 mm Conductor orsesection (wire) 0,34 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - orgound) 300 V Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Q/km @ 20 °C AC withstand voltage (wire - shield) 1.5 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature	Cable weigth	53,9 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, OFC-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 4 Outer diameter oblerance occe insulation 1,4 mm Outer diameter loberance occe insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0288-4 Current load capacity (wire) 1,5 kV @ 60 s AC withstand voltage (wire - wire) 1,5 kV @ 60 s AC withstand voltage (wire - siteld) 1,5 kV @ 60 s AC withstand voltage (wire - siteld) -30 °C Max. operating temperature (fixed) 80 °C	Material jacket	PVC
Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (shealt) ± 5 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient Treeness wire insulation 85 Shore A Ingredient Treeness wire insulation 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 Max. rated voltage (conductor - conductor) 500 V Max rated voltage (conductor - eround) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire) 1.5 kV @ 60 s Ac withstand voltage (wire - wire) 1.5 kV @ 60 s Ac withstand voltage (wire - wire) 1.5 kV @ 60 s Min. operating temperature (static) -30 °C Ac withstand voltage (wire - shield)	Shore hardness jacket	85 Shore A
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation 162 Shore A 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 Max. rated voltage (conductor - oroductor) 500 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity winh wire 4,8 A Electrical resistance line constant wire 57 Q/km @ 20 °C AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operati	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free
Material wire insulation PVC Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation 15 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm² Material conductor vire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V 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 Cartert load capacity (standard) to St Ω @ 0 ° C Ac wi	Outer-diameter (jacket)	5,9 mm
Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient feeness wire insulation lead-free, cadmium-free, CFC-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor rosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity mix wire 4.8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Mix. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Querating temperature (static) -30 °C Operating temperature (static) -5 °C Operating temperature (static) -5 °C Operating temperature mix. (dynamic) -5 °C Operating temperatu	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1.4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity win, wire 4.8 A Electrical resistance line constant wire 57.0km @ 20 °C AC withstand voltage (wire - inf.5 kV @ 60 s Min. operating temperature (static) -30 °C Max. coperating temperature (static) -30 °C Max. operating temperature (static) -30 °C Operating temperature (static) -30 °C Operating temperature (static) -5 °C Operating temperature (static) -5 °C <t< td=""><td>Material wire insulation</td><td>PVC</td></t<>	Material wire insulation	PVC
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor crosssection (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conductor vire Stranded copper wire, bare Conductor vire Stranded copper wire, bare Conductor - conductor 500 V Max. rated voltage (conductor - orground) 300 V 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) 1.5 kV @ 60 s Power frequency withstand voltage (wire - inter) 1.5 kV @ 60 s Min. operating temperature (static) -30 °C Ac withstand voltage (wire - shield) 1.5 kV @ 60 s Min. operating temperature (static) -30 °C Operating temperature (static) -30 °C Operating temperature (static) -5 °C	Amount wires	4
Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - orgound) 300 V Current load capacity (standard) to DIN VDE 0298-4 Ac withstand voltage (wire - wire) 1,5 kV @ 60 s Ac withstand voltage (wire - wire) 1,5 kV @ 60 s Min. operat	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - orgound) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Q/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - line (kine) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (static) -5 °C Operating temperature (static) -5 °C Operating temperature (static)	Outer diameter tolerance core insulation	±5%
Amount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Max. rated voltage (conductor - conductor)500 VMax. rated voltage (conductor - orgound)300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to JIN VDE 0298-4Current load capacity (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - information)1,5 kV @ 60 sPower frequency withstand voltage (wire - shield)1,5 kV @ 60 sAc withstand voltage (wire - shield)1,5 kV @ 60 sMax. operating temperature (static)-30 °CMax. operating temperature max. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 EC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 × Outer diameter	Shore hardness wire insulation	85 Shore A
Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Max. rated voltage (conductor - conductor)500 VMax. rated voltage (conductor - ground)300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - alphace (wire - wire))1,5 kV @ 60 sPower frequency withstand voltage (wire - alphace (wire - alphace (wire - shield))1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMax. operating temperature (fixed)80 °COperating temperature (in (dynamic))-5 °COperating temperature (min. (dynamic))-5 °COperating temperature (min. (dynamic))70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingO	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free
Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - ishield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Operating temperature (min. (dynamic)) -5 °C Operating temperature min. (dynamic) -5 °C Operating temperature min. (dynamic) 70 °C Flame resistance God, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Gasoline resistance Good, application-related testing	Amount strands (wire)	42
Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - ishield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Operating temperature (min. (dynamic)) -5 °C Operating temperature min. (dynamic) -5 °C Operating temperature min. (dynamic) 70 °C Flame resistance God, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Gasoline resistance Good, application-related testing	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (tixed) 80 °C Operating temperature (tixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Gasoline resistance Good, application-related testing		0,34 mm ²
Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Go	Material conductor wire	Stranded copper wire, bare
Max. rated voltage (conductor - ground) 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Max. operating temperature (static) -30 °C Max. operating temperature (freed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance	Conductor type (wire)	strand class 6
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil r	Max. rated voltage (conductor - conductor)	500 V
Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceSo Outer diameter	Max. rated voltage (conductor - ground)	300 V
Electrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance S × Outer diameter	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameter	AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Stance So od, application-related testing Oil resistance Good, application-related testing Oil resistance So od, application-related testing Stance So od, application-related testing Oil resistance So od, application-related testing Oil resistance So od, application-related testing Ding radius (fixed) 5 x Outer diameter		1,5 kV @ 60 s
Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Sending radius (fixed) 5 x Outer diameter	AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Sending radius (fixed) 5 x Outer diameter	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Sending radius (fixed) 5 x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	Operating temperature min. (dynamic)	-5 °C
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	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter	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)	

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: 2024-05-19

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