

M12 male 90° A-cod. with cable shielded

PVC 3x0.34 shielded gy UL/CSA 1.5m

Male 90° M12, 3-pole shielded A-coded

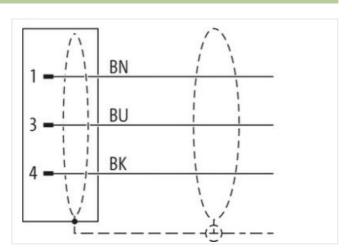
Plastic housings with good resistance against chemicals and oils.

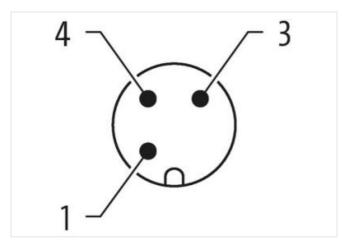
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

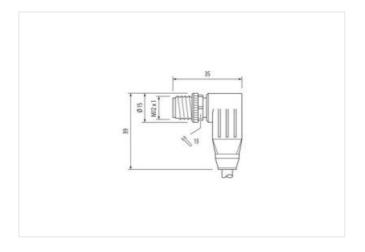
Link to Product

Illustration









Product may differ from Image









Cable length

1,5 m

Side 1

Tightening torque 0,6 Nm

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-25



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Mounting mathed	incontrol payaged
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12 M12 x 1
Thread	
Coding	A Consequence
Material contact	Copper alloy
Material	PUR
No. of poles Width across flats	3
Degree of protection (EN IEC 60529)	SW13
Side 2	IP65, IP66K, IP67
Stripping length (jacket)	20 mm
Coating contact	gold plated
Commercial data	gr p
ECLASS-6.0	27279218
ECLASS-6.0 ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.0	27279218
ECLASS-9.0	
ECLASS-9.0 ECLASS-10.1	27060311 27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879200813
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
Diagnostics	
Status indication LED	no
Installation Connection	
	20 mm
Stripping length (jacket) Mounting set	20 mm M12 x 1
Device protection Electrical	WILLY
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 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

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Product standard DIN EN 61076 2.101 (M12)	Conformity	
Installation Cable Cable identification 317 Jacket Color gray Amount stranding 1 Stranding 3 wires twisted Stranding factor min. 40 mm Cable shielding (powerage) 85 % Banding Fleece, Foil Wire arrangement brown, black, blue Cable wingth 56,1 pm Material jacket PVC Shore hardness jacket 80 5 Shore A Freedom from ingradients (jacket) 5.5 mm Tolerance outer diameter (sheath) 2.5 % Material wire insulation PVC Material wire insulation PVC Material wire insulation PVC Material vire insulation	Product standard	DIN EN 61076-2-101 (M12)
Cable identification 317 Jacket Color gray Annount standing 1 Stranding 3 wires twisted Stranding factor min. 40 mm Cable shedding (type) copper braid, tinned Cable shedding (coverage) 85 % Banding Fleece, Foil wire arrangement brown, black, blue Cable weight 55, 1gm Material slocket PVC Shoro hardness jacket PVC Shoro hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Cuter diameter tolerance core insulation 1,4 mm Outer diameter tolerance core insulation 1,5 mm Outer diameter tolerance core insulation 9 ± 3 Shore A Ingredient freeness wire insulation 1,5 mm Outer diameter (sheath) 1,5 mm Outer diameter (sheath) 9 % Ingredient freeness wire insulation 1,5 mm		
Jacket Color		0.17
Amount stranding 1		
Stranding factor min.		
Stranding factor min. 40 mm Stranding factor max. 40 mm Cable shelding (type) copper braid, tinned Cable shelding (coverage) 85 % Banding Fleece, Foll wire arrangement brown, black, blue Cable weight 56,1 g/m Material jacket PV C Shore hardress jacket 80 ± 5 Shore A Freedom from ingredients (jacket) 19 mm Tolerance outer diameter (sheath) ± 5 % Material were insulation PV C Amount wire insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 19 * 3 Shore A Ingredient freeness wire insulation 19 * 3 Shore A Ingredient freeness wire insulation 19 * 3 Shore A Ingredient freeness wire insulation 90 * 3 Shore A Ingredient freeness wire insulation 90 * 3 Shore A Ingredient freeness wire insulation 90 * 3 Shore A		
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wire arrangement brown, black, blue Cable weight 55,1 g/m Material jacket PVC Shore hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation 1.4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 90 ± 3 Shore A Ingredient freeness wire insulation 90 ± 3 Shore A Ingredient freeness wire insulation 19 19 Dameter of single wires 0.15 mm Conductor crossection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity (mix wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 500 V Conductor) 500 V		
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Material jacket		
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Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter tolerance ocer insulation ± 5 % Shore hardness wire insulation 90 ± 3 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Electrical resistance line constant wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating tempe	<u> </u>	
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Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation 1,4 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 90 ± 3 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 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 Quirent load capacity (standard) to DIN VDE 0298-4 Winks rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - ground) 300 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) 40 °C		lead-free, cadmium-free, CFC-free, silicone-free
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Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 90 ± 3 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Q/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5 °C Plame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil r	Amount wires	3
Shore hardness wire insulation 90 ± 3 Shore A Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Fiame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Grading radius (fixed) 10 x Outer diameter	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0.15 mm Conductor crosssection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - shield) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - shield) 1,5 kV @ 60 s AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Shore hardness wire insulation	90 ± 3 Shore A
Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - ground) 300 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - shield) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) 80 °C Operating temperature min. (dynamic) 5° °C Operating temperature min. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - ground) 500 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Amount strands (wire)	19
Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - ground) 500 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing	Diameter of single wires	0,15 mm
Conductor type (wire) Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - conductor) 500 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Conductor crosssection (wire)	0,34 mm ²
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 57 \(\Omega \text{Vm} \end{aligned} \) 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - conductor) 500 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 \(\frac{1}{3} \) 1100 FT2 UL 1581 \(\frac{1}{3} \) 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Material conductor wire	Stranded copper wire, bare
Current load capacity min. wire 6 A Electrical resistance line constant wire 57 \(\Omega \text{/m} \) \(\omega \text{ 20 °C} \) Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - conductor) 500 V AC withstand voltage power (wire - shield) 1,5 kV \(\omega \text{ 60 s} \) Power frequency withstand voltage power (wire - wire) 1,5 kV \(\omega \text{ 60 s} \) AC withstand voltage power (wire - wire) 1,5 kV \(\omega \text{ 60 s} \) Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 \(\xi \) 1100 FTZ UL 1581 \(\xi \) 1990 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Conductor type (wire)	Strand class 5
Electrical resistance line constant wire 57 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - conductor) 500 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - shield) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
Max. rated voltage power (conductor - ground) 300 V Max. rated voltage power (conductor - 500 V AC withstand voltage power (wire - shield) 1,5 kV @ 60 s Power frequency withstand voltage power (wire - wire) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Current load capacity min. wire	6 A
Max. rated voltage power (conductor - conductor) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - shield) 1,5 kV @ 60 s 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) 1,5 kV @ 60 s AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Max. rated voltage power (conductor - ground)	300 V
Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) 1,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter		500 V
(wire - jacket) 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) Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	AC withstand voltage power (wire - shield)	1,5 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (dynamic		1,5 kV @ 60 s
Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	AC withstand voltage power (wire - wire)	1,5 kV @ 60 s
Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Max. operating temperature (fixed)	0° 08 °C
Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) DIN EN 60811-404 Good, application-related testing	Operating temperature min. (dynamic)	-5 °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) 10 x Outer diameter	Operating temperature max. (dynamic)	80 °C
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 10 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 10 x Outer diameter	Gasoline resistance	Good, application-related testing
	Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (dynamic) 15 x Outer diameter	Bending radius (fixed)	10 x Outer diameter
	Bending radius (dynamic)	15 x Outer diameter