

M12 female 90° A-cod. with cable shielded F&B

PVC 5x0.34 shielded gy 3m

Plug Connectors for Food & Beverage

Female 90°

M12, 5-pole

shielded

A-coded

Profile gasket

Plastic housings with good resistance against chemicals and oils.

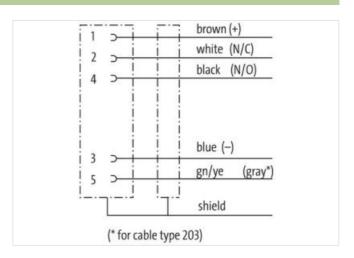
The resistance to aggressive media should be individually tested for your application. Further details on request.

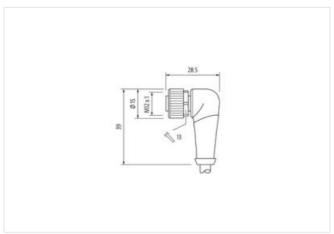
Further cable lengths on request.

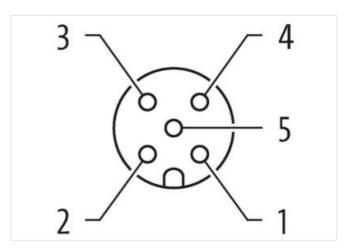
Link to Product

Illustration









Product may differ from Image









Cable length

3 m



stay connected

Side 1	
	0,6 Nm
Tightening torque Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
No. of poles	5
Width across flats	SW14
Degree of protection (EN IEC 60529)	IP65, IP68
Side 2	
Stripping length (jacket)	20 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.0 ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-6.0 ECLASS-9.0	27060311
ECLASS-9.0 ECLASS-10.1	27060311
ECLASS-10.1 ECLASS-11.1	27060311
ECLASS-11.1	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879108577
Packaging unit	1
Electrical data Supply	
	60 V
Operating voltage AC max. Operating voltage DC max.	60 V
Current operating per contact max.	4 A
Diagnostics	70
Status indication LED	no
Installation Connection	
Stripping length (jacket)	20 mm
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	1
Mechanical data Material data	
Locking material	Stainless steel 1.4404 (V4A)
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.
Installation Cable	

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: 2024-06-23



stay connec	ted
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Amount stranding 1 Stranding stotor min. 5 min 5 wires around Core filter twisted Stranding factor mix. 75 mm Cabbe shielding (coverage) 85 % Banding Foll Filter yes wire arrangement brown, black, blue, white, green-yellow Cabbe weight 72,05 g/m Material jacket PVC Shore hardness jacket PVC Shore hardness jacket 75 Shore A Freedom from ingredients (facket) 55 mm Tolerance outer diameter (shaelin) 2 5 % Amount wires 55 Outer diameter (shaelin) 55 mm Tolerance outer diameter (shaelin) 55 mm Tolerance outer diameter (shaelin) 65 % Shore hardness wire insulation PVC Amount wires 55 Outer diameter for shaelin 60 missed in shaeling wire insulation 15 % Shore hardness wire insulation 2 5 % Shore hardness wire insulation 15 % Shore hardness wire insulation 16 min	Cable identification	348
Amount stranding 1 Stranding (actor min.) 5 min Stranding factor max. 75 mm Cabbe shielding (coverage) 65 % Cabbe shielding (coverage) 65 % Banding Foil Filler yes wire arrangement brown, black, blue, while, green-yellow Cabbe weight 72.05 g/m Martinalis jacket P/C Shore hardness jacket 75 Shore A Freedom from ingreddents (jacket) 5,8 mm Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Tolerance streament outer diameter (jacket) 5,9 mm Outer diameter insulation P/C Amount wires 5 Outer diameter (jacket) 5,9 mm Shore hardness were insulation 45 % Ingredient freeness wire insulation 4,4 mm Ingredient freeness wire insulation 4,5 % Diameter of single wires 0,1 mm Conductor type (wire) 0,2 4 mm² <t< td=""><td>Jacket Color</td><td>gray</td></t<>	Jacket Color	gray
Stranding factor mix. 75 mm Stranding factor max. 75 mm Cable shielding (type) Opper braid, finned Cable shielding (coverage) 85 % Banding Foll Filler yes wire arrangement brown, black, blue, white, green-yellow Cable weight 72,05 gm Material jacket PVC Shore hardness jacket 75 Shore A Freedom from ingredients (jacket) 5.9 mm Tolerance outer diameter (sheath) 5.9 mm Tolerance outer diameter (sheath) 5.9 mm Tolerance outer diameter (sheath) 5.5 % Material wire insulation PVC Amount wires 5 Outer diameter insulation 1.4 mm Ucuter diameter rolerance core insultation 85 Shore A Ingredient fleeness wire insulation 85 Shore A Ingredient fleeness wire insulation 84 Shore A Ingredient fleeness wire insulation 85 Shore A Ingredient fleeness wire insulation 80 diffee, CFC-free Manual tradia (wire) 42 Di	Amount stranding	
Stranding factor mix. 75 mm Stranding factor max. 75 mm Cable shielding (type) Opper braid, finned Cable shielding (coverage) 85 % Banding Foll Filler yes wire arrangement brown, black, blue, white, green-yellow Cable weight 72,05 gm Material jacket PVC Shore hardness jacket 75 Shore A Freedom from ingredients (jacket) 5.9 mm Tolerance outer diameter (sheath) 5.9 mm Tolerance outer diameter (sheath) 5.9 mm Tolerance outer diameter (sheath) 5.5 % Material wire insulation PVC Amount wires 5 Outer diameter insulation 1.4 mm Ucuter diameter rolerance core insultation 85 Shore A Ingredient fleeness wire insulation 85 Shore A Ingredient fleeness wire insulation 84 Shore A Ingredient fleeness wire insulation 85 Shore A Ingredient fleeness wire insulation 80 diffee, CFC-free Manual tradia (wire) 42 Di	Stranding	5 wires around Core filler twisted
Cable shielding (coverage) 85 % Cable shielding (coverage) 85 % Banding Foil Filter yes wise arrangement brown, black, blue, white, green-yellow Cable weight 72.05 g/m Material jacket PVC Shore hardness jacket 75 Shore A Freedom from Ingredients (jacket) 5.9 mm Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wirea 5 Outer diameter insulation 1.4 mm Under diameter insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A User dameter colleance or insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A Ingredient freeness wire insulation 85 Shore A User of single wires 0,1 mm Conductor type (wire) 3.4 mm² Max. rated volta	Stranding factor min.	75 mm
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Cable shietding (coverage) 85 % Banding Foil Filler yes wire arrangement brown, black, blue, white, green-yellow Cable weight 72.05 g/m Material Jacket PVC Shore hardness jacket 75 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free Outer-diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 5 Outer diameter insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter berance core insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation 1,4 mm Understored instruction of single wires 0,1 mm Conductor of single wires 0,1 mm Diameter of single wires 0,1 mm Conductor trossaction (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor Type (wire) stranded copper wire, bare Max. rated voltage (conductor - ground) 300 V	Cable shielding (type)	copper braid, tinned
Foil Filler Poil	Cable shielding (coverage)	
Filler yes wire arrangement brown, black, blue, white, green-yellow Cable weigh 72,05 g/m	Banding	Foil
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Shore hardness jacket 75 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 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, CFC-free Amount strands (wire) 42 Dameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor vire Stranded copper wire, bare Conductor (ype (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 Ac withstand voltage (wire - wire) 1,5 kV @ 60 s AC withstand voltage (wire - shield)	-	
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Tolerance outer diameter (sheath)		
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Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-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 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 Min. operating temperature (fixed) 30 °C Max. operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) -5 °C Plame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance	Outer diameter insulation	
Shore hardness wire insulation 85 Shore A Ingredient freeness wire insulation lead-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 min. wire 4,8 A Electrical resistance line constant wire 57 \(\Omega\) km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) -30 °C Max. operating temperature min. (dynamic) 5 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1901 IEC 60332-2-2 chemical resistance Good, application-related testing Good, application-related testing Oil resistance Good, applic	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 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 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 Min. operating temperature (static) 30 °C Operating temperature min. (dynamic) 5° C Operating temperature min. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Shore hardness wire insulation	85 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 - 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 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 Min. operating temperature (static) 30 °C Operating temperature min. (dynamic) 5° C Operating temperature min. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Ingredient freeness wire insulation	lead-free, CFC-free
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 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 Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 70 °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 Gasoline resistance Good, application-related testing DIN EN 60811-404		· · · · · · · · · · · · · · · · · · ·
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 - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (fixed) 80 °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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	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 Electrical resistance line constant wire 4,8 A Electrical resistance line constant wire 57 \(\Omega \text{lkm} \equiv 20 \circ C AC withstand voltage (wire - wire) 1,5 kV \(\omega \text{00 s} \) Power frequency withstand voltage (wire - shield) 1,5 kV \(\omega \text{00 s} \) AC withstand voltage (wire - shield) 1,5 kV \(\omega \text{00 s} \) Min. operating temperature (static) -30 \(\circ C \) Max. operating temperature (fixed) 80 \(\circ C \) Operating temperature min. (dynamic) -5 \(\circ C \) Operating temperature max. (dynamic) 70 \(\circ C \) Flame resistance UL 1581 \(\xi \) 1100 FT2 UL 1581 \(\xi \) 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Conductor crosssection (wire)	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 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 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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Good, application-related testing DIN EN 60811-404	Material conductor wire	Stranded copper wire, bare
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 - 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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Conductor type (wire)	strand class 6
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 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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing DIN EN 60811-404		500 V
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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 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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Good, application-related testing DIN EN 60811-404	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) 1,5 kV @ 60 s Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) 70 °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 Good, application-related testing DIN EN 60811-404	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket) AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) To °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 Good, application-related testing DIN EN 60811-404	AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Our of C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Power frequency withstand voltage (wire - jacket)	1,5 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (dynami	AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Max. operating temperature (fixed)	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 Good, application-related testing DIN EN 60811-404	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	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404	Flame resistance	UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2
Oil resistance Good, application-related testing DIN EN 60811-404	chemical resistance	Good, application-related testing
	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 15 x Outer diameter	Oil resistance	Good, application-related testing DIN EN 60811-404
	Bending radius (dynamic)	15 x Outer diameter