

## M8 MALE $90^{\circ}$ / MSUD VALVE PLUG FORM C 8 MM(SMALL)

PVC 3X0.34 black 0.6m

**MSUD** 

Plastic housings with good resistance against chemicals and oils.

Form C (8 mm)

Male M8

90°

24 V AC ±20% / DC ±25%

4-pole

Z-Diode + LED

Art-No. 7005 - M8 Lite - (plastic hexagonal screw) on request

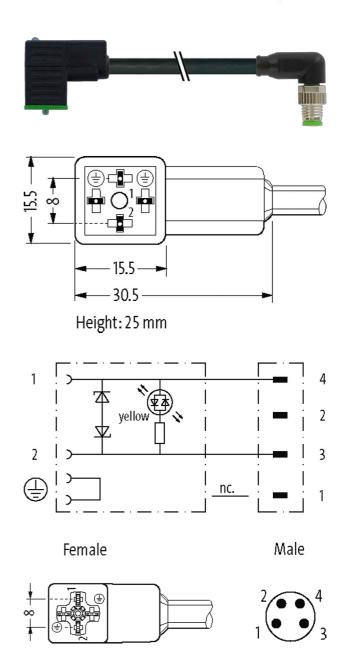
Further cable lengths on request.

## **Link to Product**

Illustration



stay connected



Product may differ from Image

Form	
Form	88451
Technical Data	
Operating voltage	24 V AC ±20% / DC ±25%
Rated surge voltage	0.8 kV
Operating current per contact	max. 4 A
No. of poles	4
Current consumption	15 mA
Material group	IEC 60664-1, category I
Switch off peak	max. 55 V
LED display	yellow
Locking of ports	M2.5/M8 (recommended torque 0.4 Nm)
Compression gland	M8 (SW9)
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 02/21



stay connected

Locking material   Zinc die caseling, malte nickel plained	Material	MSUD (PBT); M8 (PUR)
Housing   Black plastic (gray on request)	Locking material	Zinc die casting, matte nickel plated
Additional suppressor         Diode/2-Diode           General date           Sandards         DN EN 81076-2-104 (M8)           Mounting method         inserted lightened           Material (contact)         Copper alloy           Material (contact)         MSUD (Ag); M8 (Au)           Material (gashed)         PUR           Pollution Degree         3           Temporature range         25 - 85 °C, depending on cable quality           Position         Temporature range           No.3iameter of wires         3 o 34 mm²           No.4iameter of wires         3 to 34 mm²           No.4iameter of wires         4 to 3 mm²           No.4iameter of wires         5 to 34 mm²           No.4iameter of wires         9 to 34 mm²           No.4iameter of wires         9 to 34 mm²           No.4iameter of wires         9 to 34 mm²           No.4iameter of wires         4 to 3 mm²           No.4iameter of wires         9 to 34 mm²           PVC (br. bl. bl)         Material (proving)           Band radius (moving)         10 voure 2           Temperature range (fixed)         30 - 80 °C           Temperature range (fixed)         30 - 80 °C           Temperature range (fixed)         40 - 80 °C      <	suitable for corrugated tube (internal Ø)	6.5 mm
General data         Sandards         DN EN 61076-2-104 (MB)           Mounting method         inserted, fightened           Mounting (method)         inserted, fightened           Material (contact)         Copporalloy           Material (contact)         MSUD (Ag); MB (Au)           Material (pasked)         PUR           Pollution Degree         3           Temporature range         25 - x85 °C, depending on cable quality           Cables         Vincilianalized of vivins           No.Xiamanilor of vivins         3 + 0.34 mm²           Wire isolation         PVC (ULCSA)           Outer O         4.6 mm 26%           Bend radius (moving)         10x outer Ø           Temperature range (thod)         -50 - x80 °C           Cable identification         613           Cable (spee)         1 (PVC)           Approval (cable)         UL (ARM-Slylo 24841731), CSA           Cable (weight (g/m)         34,10           Material (wire)         Cu wine, bare           Resistor (core)         max. 60 Qkm (co °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19x 0.15 mm (multi-strand wire class 5)           Wire-Ø (ore)         0.15 mm (multi-strand wire class 5)	Housing	Black plastic (gray on request)
Slamdards         DN EN 61076 2-104 (MB)           Mounting method         inserted, Spithened           Material (contract)         Copper almy           Material (contract surface)         MSUD (Ag)-M8 (Au)           Material (gasker)         PUR           Publishion Degree         3           Femperature range         -2585 °C, depending on cable quality           Cables         Voldiameter of wires           Voldiameter of wires         3 * 0.34 mm²           Wire isolation         PVC (Ib, b), b)           Material (gisker)         PVC (Ib, CSA)           Outer Ø         4.6 mm ±5%           Bend radius (moving)         10 * outer Ø           Temperature range (fixed)         -3080 °C           Cable identification         613           Cable weight (gm)         34,10           Material property (mobile)         15, mm ±60 °C           Single wire Ø (core)         0,15 mm         0,15 mm (multi steam wire class 5)	Additional suppressor	Diode/Z-Diode
Slamdards         DN EN 61076 2-104 (MB)           Mounting method         inserted, Spithened           Material (contract)         Copper almy           Material (contract surface)         MSUD (Ag)-M8 (Au)           Material (gasker)         PUR           Publishion Degree         3           Femperature range         -2585 °C, depending on cable quality           Cables         Voldiameter of wires           Voldiameter of wires         3 * 0.34 mm²           Wire isolation         PVC (Ib, b), b)           Material (gisker)         PVC (Ib, CSA)           Outer Ø         4.6 mm ±5%           Bend radius (moving)         10 * outer Ø           Temperature range (fixed)         -3080 °C           Cable identification         613           Cable weight (gm)         34,10           Material property (mobile)         15, mm ±60 °C           Single wire Ø (core)         0,15 mm         0,15 mm (multi steam wire class 5)	General data	
Mounting method         inserted, tightened           Material (cornate)         Copper alloy           Material (cornates surface)         MSUD (Ag); M8 (Au)           Material (gasker)         PUR           Pollution Dogree         3           Temperature range         -2585 °C, depending on cable quality           Cables         Temperature of wires         3 × 0.34 mm²           Wire isolation         PVC (br. bl. bk)           Material (geker)         PVC (br. bl. bk)           Outer Ø         4.6 mm 45%           Bend radius (moving)         10 × outer Ø           Temperature range (filosd)         30480 °C           Temperature range (mobile)         -5480 °C           Cable infentilication         813           Cable indeptilification         813           Cable indeptilification         813           Resistor (core)         max. 60 0 km (20 °C)           Singla wire Ø (core)         10 × 0.15 mm           Resistor (core)         max. 60 0 km (20 °C)           Singla wire Ø (core)         19 × 0.15 mm (multi-strand wire class 5)           AVIG         similar to AWG 22           Material (wire isolation)         VC           Wire Ø and, isolation         45 ± 5 D <t< td=""><td></td><td>DIN FN (4076 2 404 (Mg)</td></t<>		DIN FN (4076 2 404 (Mg)
Material (contact)         Copper alloy           Material (contact surface)         MSUD (Ag); MS (Au)           Material (pasked)         PUR           Pollution Degree         3           Temperature range         -25185 °C, depending on cable quality           Cables         No. diameter of wires           Wire isolation         PVC (br. bl. bk)           Material (glocker)         PVC (br. bl. bk)           Material (glocker)         PVC (ULCSA)           Outer (P         4.6 mm. ±5%           Band radius (moving)         10 - outer (P           Temperature range (fixed)         -30480 °C           Temperature range (fixed)         -5080 °C           Cable identification         613           Cable identification         613           Cable view (cable)         UL (AWM-Style 2464/1731), CSA           Cable wing (Egret)         34,10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Okm (20 °C)           Single wire of (core)         0.15 mm           Construction (core)         19 × 0.15 mm (mutil-strand wire class 5)           AVIG         similar to AWG 22           Material property (wire isolation)         CFC. cadmium. silicone- and lead-free		
Material (contact surface)         MSUD (Ag); M8 (Au)           Material (gasker)         PUR           Pollution Degree         3           Temperature range         -25+85 °C, depending on cable quality           Cables           Wine Isolation         PVC (Dr. Ib. Ib.)           Material (jacket)         PVC (ULCSA)           Outer Ø         4.8 mm 25%           Beard radius (moving)         10 southe Ø           Temperature range (fixed)         -30+80 °C           Temperature range (mobile)         -5+80 °C           Cable in Infertious (cable)         UL (AWM-Style 2464/1731), CSA           Cable right (pm)         34.10           Material (wire)         Cu (wire, bare           Cable weight (pm)         34.10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Økm (2° °C)           Single wire Ø (core)         0.15 mm (multi-strand wire class 5)           AVIG         similar to AWG 22           Material (wire isolation)         CPC, cadmium, silicone- and lead-free           Shore hardness (wire isolation)         CPC, cadmium, silicone- and lead-free           Shore hardness (wire isolation)         CPC, cadmium, silicone- and lead-free           Shore hardness (wire isolation)		*
Material (gasket)         PUR           Pollution Degree         3           Cables         Temperature range         25485 °C, depending on cable quality           Cables         Very Collage           No./diameter of wires         3 × 0.34 mm²           Wire Isolation         PVC (U.CSA)           Outer Ø         4.6 mm ±5%           Bend radius (mowing)         10x outer Ø           Temperature range (fixed)         -580 °C           Cabie identification         613           Cabie identification         613           Cabie weight [gim]         34.10           Material (wire)         Qu wire, barre           Resistor (core)         max 60 Dum (20 °C)           Single wire Ø (core)         19x 0.15 mm (multi-strand wire class 5)           Material (wire isolation)         PVC           Material (wire isolation)         PVC           Material (wire isolation)         PC -cadmium, silicone and lead-free           Shore hardness (wire isolation)         25 ± 5 D           Wire-Øinch isolation         12.5 mm ±5%           Colorinumbering of wires         br, bk, bl           Shranding combination         3 wires twisted           Shore hardness (wire isolation)         85 ± 5 A           <		
Pollution Degree         3           Temperature range         25485 °C, depending on cable quality           Cables		
Temperature range         -25+85 °C, depending on cable quality           Cables           No.diameter of wires         3 × 0.34 mm²           Wire isolation         PVC (br. bl. bk)           Material (jacket)         PVC (ULICSA)           Outer Ø         4.6 mm ±5%           Bend radius (moving)         10 × outer Ø           Temperature range (fixed)         -30+80 °C           Cable intellication         613           Cable intellication         613           Cable intellication         613           Cable in Vipo         UL (AWM-Style 2464/1731), CSA           Cable in Vipo         UL (AWM-Style 2464/1731), CSA           Cable in Vipo         Cu vire, bare           Resistor (core)         max. 60 0km (20 °C)           Single vire Ø (core)         0.15 mm           Construction (core)         19 × 0.15 mm (multi-istrand wire class 5)           Material (wire isolation)         PVC           Material property (wire isolation)         PVC           Material property (wire isolation)         CPC, cadmium, silicone- and lead-free           Streat dardiness (wire isolation)         1.25 mm ±5%           Coloriumbering of wires         br. bk. bl           Wire-Ø incl. isolation         1.25 mm ±5%		
Cables           No. diameter of wires         3 x 0.34 mm²           Wire sloation         PVC (br, bl. bk)           Material (jacket)         PVC (ULCSA)           Cuter Ø         4.6 mm ±5%           Bend radius (moving)         10 × outer Ø           Temperature range (fised)         -3080 °C           Temperature range (mobile)         -580 °C           Cable identification         613           Cable identification         613           Cable (aberly (pm)         34.10           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight (gm)         34.10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Qkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19 x 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CPC, cadmium, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire- Ø incl. isolation         1.25 mm ±5%           Colorinumbering of wires         br, bk, bl           Shroel hardness (gacket)         PVC <td></td> <td></td>		
No.ddameter of wires         3 × 0.34 mm²           Wire isolation         PVC (br, bl, bk)           Material (jacket)         PVC (ULCSA)           Outer Ø         4.6 mm ±5%           Beand radius (moving)         10 × outer Ø           Temperature range (fixed)         -30+80 °C           Temperature range (mobile)         -5+80 °C           Cable identification         613           Cable type         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34.10           Material (wire)         Cu wire, barre           Resistor (core)         max. 60 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19 × 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC, cadmium, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø incl. isolation         1,25 mm ±5%           Colori/mumbering of wires         br, bk, bl           Shranding combination         3 wires twisted           Shiold         no           Material (jacket		-25+85 °C, depending on cable quality
Wire isolation         PVC (DL/CSA)           Outer Ø         4.6 mm ±5%           Bend radius (moving)         10x outer Ø           Temperature range (fixed)         -30+80 °C           Cabie Identification         613           Cabie Identification         113           Cabie Ivery         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cabie Ivery         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cabie Ivery         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cabie Ivery         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cabie Ivery         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cabie Ivery         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cabie Ivery         1 (PVC)           Single vier Ø (core)         0.15 mm           Single vier Ø (core)         19x 0.15 mm (multi-strand vier class 5)           AWG         similar to AWG 22           Material property (vier isolation)         CPC-, cadmium-, silicone- and lead-free           Shore Aurodines (wire iso	Cables	
Material (jacket)         PVC (UL/CSA)           Outer Θ         4.6 mm ±5%           Bend radius (moving)         10 × outer Θ           Temperature range (mobile)         -5480 °C           Cable Identification         613           Cable Identification         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [fgm]         34,10           Material (wire)         Cu wire, bare           Resistor (core)         max. 80 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø Incl. Isolation         1.25 mm ±5%           Color/numbering of wires         br. bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (acket)         35 ± 5 A           Outer-Ø (jacket)         45 ± 5 D           Material property (jacket)         CFC-, cadmium-, silicone- and lead-fr	No./diameter of wires	3× 0.34 mm²
Outer O         4.6 mm ±5%           Bend radius (moving)         10× outer Ø           Temperature range (mobile)         -30+80 °C           Cable identification         613           Cable Type         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34,10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19× 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CPC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø Incl. Isolation         1.25 mm ±5%           Color/humbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CPC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         br. bk           Outer-Ø (jacket)         CPC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         pood resis	Wire isolation	PVC (br, bl, bk)
Bend radius (moving)         10× outer Ø           Temperature range (fixed)         -30+80 °C           Cable identification         613           Cable identification         (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable Weight [g/m]         34.10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19× 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material (wire isolation)         CPC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires wisted           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Outer-Ø (jacket)         4.8 mm ±5%           Color (jacket)         4.8 mm ±5%           Color (jacket)         black	Material (jacket)	PVC (UL/CSA)
Temperature range (fixed)         -30+80 °C           Temperature range (mobile)         -5+80 °C           Cable (dentification)         613           Cable Type         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34.10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19 × 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Colorinumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Outer-Ø (jacket)         4.6 mm ±5%           Color (jacket)         4.6 mm ±5%           Color (jacket)         black	Outer Ø	4.6 mm ±5%
Temperature range (mobile)         -5+80 °C           Cable identification         613           Cable Type         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34,10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19× 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Color (jacket)         4.6 mm ±5%           Color (jacket)         4.6 mm ±5%           Color (jacket)         black           Chemical resistance         flame retardant UL 1581 VW1 / CSA FT1	Bend radius (moving)	10× outer Ø
Cable Identification         613           Cable Type         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34.10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19 x 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø incl. Isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ± 5 A           Outer-Ø (jacket)         4.6 mm ±5%           Color (jacket)         black           chemical resistance         flame retardant UL 1581 VWI / CSA FT1           Nominal voltage         UL 300 V AC           Current load capacity         to DIN VDE 0298-4	Temperature range (fixed)	-30+80 °C
Cable Type         1 (PVC)           Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34,10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19× 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CPC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shied         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ± 5 A           Outer-Ø (jacket)         4.6 mm ± 5%           Color (jacket)         black           Color (jacket)         black           Color (jacket)         black           Color (jacket)         black           Color (jacket)         bla	Temperature range (mobile)	-5+80 °C
Approval (cable)         UL (AWM-Style 2464/1731), CSA           Cable weight [g/m]         34.10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19× 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Outer-Ø (jacket)         4.6 mm ±5%           Color (jacket)         black           Chemical resistance         good resistance to oil, gasoline and chemicals           thermal resistance         flame retardant UL 1581 VW1 / CSA FT1           Nominal voltage         UL 300 V AC           Current load capacit	Cable identification	613
Cable weight [g/m]         34,10           Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19 × 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Outer-Ø (jacket)         4.6 mm ±5%           Color (jacket)         4.6 mm ±5%           Color (jacket)         black           Chemical resistance         good resistance to oil, gasoline and chemicals           thermal resistance         flame retardant UL 1581 VW1 / CSA FT1           Nominal voltage         UL 300 V AC           Current load capacity         to DIN VD	Cable Type	1 (PVC)
Material (wire)         Cu wire, bare           Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19× 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ± 5 A           Outer-Ø (jacket)         4.6 mm ±5%           Color (jacket)         4.6 mm ±5%           Color (jacket)         black           chemical resistance         good resistance to oil, gasoline and chemicals           thermal resistance         flame retardant UL 1581 VW1 / CSA FT1           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         t	Approval (cable)	UL (AWM-Style 2464/1731), CSA
Resistor (core)         max. 60 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         19 × 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Outer-Ø (jacket)         46 mm ±5%           Color (jacket)         black           chemical resistance         good resistance to oil, gasoline and chemicals           thermal resistance         flame retardant UL 1581 VW1 / CSA FT1           Nominal voltage         UL 300 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -30+80 °C	Cable weight [g/m]	34,10
Single wire Ø (core)         0.15 mm           Construction (core)         19 x 0.15 mm (multi-strand wire class 5)           AWG         similar to AWG 22           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ± 5 A           Outer-Ø (jacket)         46 mm ±5%           Color (jacket)         black           Chemical resistance         good resistance to oil, gasoline and chemicals           thermal resistance         flame retardant UL 1581 VW1 / CSA FT1           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -30+80 °C	Material (wire)	Cu wire, bare
Construction (core) 19× 0.15 mm (multi-strand wire class 5)  AWG similar to AWG 22  Material (wire isolation) PVC  Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 45 ±5 D  Wire-Ø incl. isolation 1.25 mm ±5%  Color/numbering of wires br, bk, bl  Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 85 ±5 A  Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Resistor (core)	max. 60 <b>Ω</b> /km (20 °C)
AWG similar to AWG 22  Material (wire isolation) PVC  Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 45 ± 5 D  Wire-Ø incl. isolation 1.25 mm ±5%  Color/numbering of wires br, bk, bl  Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 85 ± 5 A  Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Single wire Ø (core)	0.15 mm
Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         45 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         85 ±5 A           Outer-Ø (jacket)         4.6 mm ±5%           Color (jacket)         black           chemical resistance         good resistance to oil, gasoline and chemicals           thermal resistance         flame retardant UL 1581 VW1 / CSA FT1           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -30+80 °C	Construction (core)	19× 0.15 mm (multi-strand wire class 5)
Material property (wire isolation)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (wire isolation)       45 ±5 D         Wire-Ø incl. isolation       1.25 mm ±5%         Color/numbering of wires       br, bk, bl         Stranding combination       3 wires twisted         Shield       no         Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       85 ±5 A         Outer-Ø (jacket)       4.6 mm ±5%         Color (jacket)       black         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         thermal resistance       flame retardant UL 1581 VW1 / CSA FT1         Nominal voltage       UL 300 V AC         Test voltage       2000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+80 °C	AWG	similar to AWG 22
Shore hardness (wire isolation)  45 ± 5 D  Wire-Ø incl. isolation  1.25 mm ±5%  Color/numbering of wires  br, bk, bl  Stranding combination  3 wires twisted  Shield  no  Material (jacket)  PVC  Material property (jacket)  CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket)  85 ± 5 A  Outer-Ø (jacket)  4.6 mm ±5%  Color (jacket)  black  chemical resistance  good resistance to oil, gasoline and chemicals  thermal resistance  flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage  UL 300 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+80 °C	Material (wire isolation)	PVC
Wire-Ø incl. isolation 1.25 mm ±5%  Color/numbering of wires br, bk, bl  Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 85 ±5 A  Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Material property (wire isolation)	CFC-, cadmium-, silicone- and lead-free
Color/numbering of wires       br, bk, bl         Stranding combination       3 wires twisted         Shield       no         Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       85 ±5 A         Outer-Ø (jacket)       4.6 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         thermal resistance       flame retardant UL 1581 VW1 / CSA FT1         Nominal voltage       UL 300 V AC         Test voltage       2000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+80 °C	Shore hardness (wire isolation)	45 ±5 D
Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 85 ± 5 A  Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Wire-Ø incl. isolation	1.25 mm ±5%
Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 85 ±5 A  Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Color/numbering of wires	br, bk, bl
Material (jacket)PVCMaterial property (jacket)CFC-, cadmium-, silicone- and lead-freeShore hardness (jacket)85 ± 5 AOuter-Ø (jacket)4.6 mm ± 5%Color (jacket)blackchemical resistancegood resistance to oil, gasoline and chemicalsthermal resistanceflame retardant UL 1581 VW1 / CSA FT1Nominal voltageUL 300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature range (fixed)-30+80 °C	Stranding combination	3 wires twisted
Material property (jacket)  CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket)  85 ±5 A  Outer-Ø (jacket)  4.6 mm ±5%  Color (jacket)  black  chemical resistance  good resistance to oil, gasoline and chemicals  thermal resistance  flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage  UL 300 V AC  Test voltage  2000 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+80 °C	Shield	no
Shore hardness (jacket) 85 ±5 A  Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Material (jacket)	PVC
Outer-Ø (jacket) 4.6 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Material property (jacket)	CFC-, cadmium-, silicone- and lead-free
Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Shore hardness (jacket)	85 ±5 A
chemical resistance good resistance to oil, gasoline and chemicals thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Outer-Ø (jacket)	4.6 mm ±5%
thermal resistance flame retardant UL 1581 VW1 / CSA FT1  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Color (jacket)	black
Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	chemical resistance	good resistance to oil, gasoline and chemicals
Test voltage 2000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -30+80 °C	thermal resistance	flame retardant UL 1581 VW1 / CSA FT1
Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C	Nominal voltage	UL 300 V AC
Temperature range (fixed) -30+80 °C	Test voltage	2000 V AC
	Current load capacity	to DIN VDE 0298-4
Temperature range (mobile) -5+80 °C	Temperature range (fixed)	-30+80 °C
	Temperature range (mobile)	-5+80 °C

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 02/21



stay connected

Bend radius (fixed)	5× outer Ø	
Bend radius (moving)	10× outer Ø	
Jacket Color	black	
Commercial data		
country of origin	CZ	
customs tariff number	85444290	
EAN	4048879119238	
eClass	27279218	
Packaging unit	1	
Sketch		

## 25 M8×1 Ø 10

Product may differ from Image