

## **MSUD VALVE PLUG FORM CI 9.4 MM**

PUR 3X0.75 black ROBOT, drag ch 10m

MSUD Form CI (9.4 mm) 24 V AC/DC ±25% LED

Further cable lengths on request.

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.

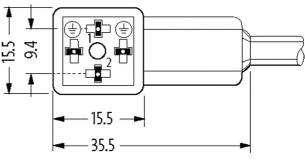
## **Link to Product**

Illustration

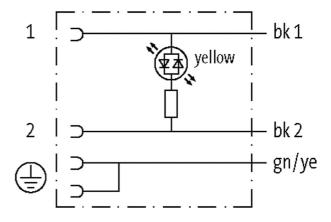


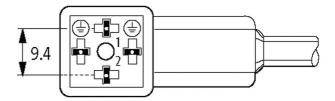
stay connected





Height: 25 mm





Product may differ from Image

Approvals	Approvals			
cCSAus	* only for products with UL/CSA approved cable			
Form				
Form	94001			
Technical Data				
Operating volt	age 24 V AC/DC ±25%			



stay connected

Locking of ports	Rated surge voltage	0.8 kV
Protection         IP67 inserted and tightened (EN 60529)           Housing         Black plastic (gray on request)           Ceneral disc           Temperature range         45865 °C, depending on cable quality           Cables           No.cliameter of wires         3 0.75 mm²           Wire isolation         PP (Detrum, graye)           C-track properties         10 Mio.           Material (incidet)         PPL (UL/CSA), welding spark           Culter Q         5.2 mm +5%           Bend radius (moving)         10 - outer Ø           End radius (moving)         10 - outer Ø           End radius (moving)         10 - outer Ø           Cable (identification         656           Cable (identification         656           Cable (identification)         656           Cable (identification)         646           Cable (identification)         456           Cable (identification)         456           Cable (identification)         456           Cable (identification)         450           Cable (identification)         450           Material (wire)         Cu wire, bare           Cable (identification)         470           Material (wire)         Cu vire, bare </th <th>Operating current per contact</th> <th>max. 4 A</th>	Operating current per contact	max. 4 A
Black plastic (gray on request)	Locking of ports	M3 (recommended torque 0.4 Nm)
General data           Temperature range         -25 - 185 °C, depending on cable quality           Cables           Wire isolation         PP (ik num, grye)           C track properties         10 Mio.           Marietal (jacket)         PUR (ULCSA), welding spark           Outer Ø         5.2 mm 5%           Bend radius (moving)         10x outer Ø           Temperature range (mobile)         -25 - 80 °C           Cable identification         658           Cable identification         658           Cable in yer         5 (PUR schweldsturkenbeständig)           Approval (cable)         cURus (AVMM Style 20549/1043); CE conform           Cable weight [grin]         48,40           Material (wire)         Cu wire, bare           Resistor (core)         0.15 mm           Construction (core)         42 - 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 - 0.75 mm²           AWKG         smillar to AWC 18           Material property (wire isolation)         CPC - halogen - cadmium - silicone - and lead-free           Sthree in classion         5 8 × 30           Wire-of incl. isolation         1.7 mm 5%           Colorinumbering of wires         bik numbered, grys longitudinally striped           St	Protection	IP67 inserted and tightened (EN 60529)
Cables           Cybines           Wine isolation         3 - 0.75 mm²           Wine isolation         PP (bix num, grye)           C vack properties         10 Mio.           Malarial (jacked)         PLIK (ULCSA), walding spark.           Cure 0         5.2 mm 5%           Bend radius (moving)         10 - outer 0           Temperature range (fibed)         -40 - 80 °C           Cable identification         658           Cable identification         658           Cable vige         5 (PVIR schwid/slunkin/beständig)           Approval (cable)         cURSis (AMM-Style 2054910493): CE conform           Cable vige         5 (PVIR schwid/slunkin/beständig)           Approval (cable)         curry, bare           Resistor (core)         max. 28 D/km (20 °C)           Single wire 0 (core)         0.15 mm           Construction (core)         42 x 0.15 mm (multi-strand wire class 6)           Diamoter (core)         3 x 0.75 mm²           AWG         similiar to AWG 18           Material (prosperly (wire isolation)         CFC, halogen-, cadmium-, silicone- and lead-free           Store handross (wire isolation)         CFC, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant hydrolysis-, morobial- and walding spark resistan	Housing	Black plastic (gray on request)
Cobies         No./damoter of wires         3 × 0.75 mm²           Wire isolation         PP (bk. num., gnye)           Carack properties         10 Mio.           Material (jacket)         PUR (UL/CSA), welding spark           Outer Ø         5.2 mm ±5%           Beard radius (moving)         10 × outer Ø           Temperature range (fixed)         4080 °C           Temperature range (mobile)         -2580 °C           Cable identification         66           Cable Type         5 (PUR schweißfunkenbeständig)           Approval (cable)         -UR (akWM-Syle) 20549/10493); CE conform           Cable weight (gm)         48,40           Material (wir)         Cu wire, bare           Resistor (core)         max. 26 Qkm (20 °C)           Single wire of (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         30075 mm²           Material (wire isolation)         PP           Material (wire isolation)         PP           Material property (wire isolation)         CPC, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         SB 10           Wire-Ø Incl. isolation         1.7 mm ±5%           Color-numbering	General data	
Cobies         No./damoter of wires         3 × 0.75 mm²           Wire isolation         PP (bk. num., gnye)           Carack properties         10 Mio.           Material (jacket)         PUR (UL/CSA), welding spark           Outer Ø         5.2 mm ±5%           Beard radius (moving)         10 × outer Ø           Temperature range (fixed)         4080 °C           Temperature range (mobile)         -2580 °C           Cable identification         66           Cable Type         5 (PUR schweißfunkenbeständig)           Approval (cable)         -UR (akWM-Syle) 20549/10493); CE conform           Cable weight (gm)         48,40           Material (wir)         Cu wire, bare           Resistor (core)         max. 26 Qkm (20 °C)           Single wire of (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         30075 mm²           Material (wire isolation)         PP           Material (wire isolation)         PP           Material property (wire isolation)         CPC, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         SB 10           Wire-Ø Incl. isolation         1.7 mm ±5%           Color-numbering	Temperature range	-25+85 °C. depending on cable quality
No./diameter of wires   3 × 0.75 mm²		
Wite isolation         PP (bk num, gnye)           C track properties         10 Mio.           Material (jacket)         PUR (LUCSA), welding spark           Outer Ø         5.2 mm ±5%           Bend radius (moving)         10 × outer Ø           Temperature range (fixed)         40880 °C           Temperature range (fixed)         2580 °C           Cable identification         656           Cable identification         656           Cable identification         656           Cable identification         4560           Cable identification         4660           Resistor (core)         0.15 mm           Cable identification         4840           Bensistor (core)         0.15 mm           Construction (core)         420.15 mm (multi-strand wire class 6)           Diameter (core)         30.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material (wire isolation)         25		
C-track properties         10 Mio.           Material (Jackot)         PUR (ULCSA), welding spark           Outer Ø         52 mm ±5%           Bend radius (moving)         10 - outer Ø           Temperature range (fixed)         40 - 480 °C           Temperature range (mobile)         -25 - 480 °C           Cable Identification         656           Cable Identification         656           Cable Identification         656           Cable Identification         640           Approval (cable)         URus (AWM-5yle 20549/10493); CE conform           Cable wellpft (gm)         48.40           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 0.km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42 - 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 - 0.75 mm²           AWG         similar to AWG 18           Material property (wire isolation)         CFC., halogen., cadmium., silicone- and lead-free           Shore hardness (wire isolation)         1.7 mm ±5%           Color (miscoling orbination)         3 wires lwisted           Shield         no           Material property (jacket)         CFC., halogen., cadmium., silicone- a		
Material (jacket)         PUR (ULCSA), welding spark           Outer Ø         5.2 mm ±5%           Bend radius (noving)         10 × outer Ø           Temperature range (liked)         40.+80 °C           Cable (destification         656           Cable (destification)         656           Cable (destification)         656           Cable (abile)         URus (AWM, Style 20549/10493); CE conform           Cable weight (gm)         48,40           Material (wire)         Cu wire, bare           Easistor (core)         max 26 (km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material (wire isolation)         PP           Material property (wire isolation)         SP ± 3D           Wire-Ø incl. isolation         1,7 mm ±5%           Color/mumbering of wires         bk numbered, gnye longitudinally striped           Sitranding combination         3 wires twisted           Shied         no           Material (jacket)         PUR           Material (jacket)		
Outer Ø         5.2 mm ±5%           Bend radius (noving)         10× outer Ø           Temperature range (fixed)         40+80 °C           Temperature range (mobile)         25+80 °C           Cable identification         656           Cable identification         656           Cable Weight (gim)         48.40           Material (wire)         Cu wire, bare           Pesistor (core)         max. 26 M/m (20 °C)           Single wire Ø (ore)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.75 mm²           MAKO         similar to AWG 18           Material (wire isolation)         PP           Material property (wire isolation)         CFC , halogen, cadmium, silicone- and lead-free           Shore hardness (wire isolation)         58 ±3 D           Wire-Ø incl. isolation         1.7 mm ±5%           Colonhumbering of wires         bix numbered, gnyle longitudinally striped           Stranding combination         3 wires twisted           Material (jackel)         PUR           Material property (jacker)         CFC , halogen, cadmium, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistance           Shore hardness (giacket)         58	<u>-</u>	
Bend radius (moving)         10 × outer Ø           Temperature range (fixed)         -4060 °C           Temperature range (mobile)         -2560 °C           Cable idnoffication         656           Cable Type         5 (PUR schweißfunkenbeständig)           Approval (cable)         cURIus (AWA-Style 20549/10493); CE conform           Cable weight [girn]         48.40           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Wire Ø (bird) (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ±3 D           Wire Ø (bird) (sickel)         50 mm ±5%           Color/inumbering of wires         bird numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material (jacket)         PUR           Material (jacket)         58 ±3 D		
Temperature range (fixed)		
Temperature range (mobile)         -25+80 °C           Cable (dentification)         56 6           Cable Type         5 (PUR schweißfunkenbeständig)           Approval (cable)         cURus (AWM-Syle 20549/10493); CE conform           Cable weight [g/m]         48.40           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire of (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ± 3 D           Wire-Ø incl. isolation         1.7 mm ±5%           Color/inubering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket) <td< td=""><td></td><td>1 1111</td></td<>		1 1111
Cable identification         656           Cable Type         5 (PUR schweißfunkenbeständig)           Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         48,40           Material (wire)         CU wire, bare           Resistor (core)         max. 26 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material (wire isolation)         PP           Metarial (wire isolation)         S8 ± 3 D           Wire-Ø incl. isolation         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires wisted           Shield         no           Material (jackel)         PUR           Material (jackel)         PUR           Material property (jackel)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ± 3 D           Outer-Ø (jacket)         52 mm		
Gable Type         5 (PUR schweißfunkenbeständig)           Approval (cable)         cURus (AWM-Syle 20549/10493); CE conform           Cable weight [g/m]         48,40           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42× 0.15 mm (multi-strand wire class 6)           Diameter (core)         3× 0.75 mm²           AWG         smillar to AWG 18           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ±3 D           Wire-Ø Incl. isolation         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant. Hydrolysis-, microbial- and welding spark resistant           Shice hardness (jacket)         58 ±3 D           Outer-Ø (jacket)         58 ±3 D           Outer-Ø (jacket)         58 ±3 D           Outer-Ø (jacket)         58 ±3 D     <		
Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         48,40           Material (wire)         Cu vire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42× 0.15 mm (multi-strand wire class 6)           Diameter (core)         3× 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material (wire isolation)         58 ± 3 D           Wire-Ø incl. Isolation         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ± 3 D           Outer-Ø (jacket)         5.2 mm ±5%           Color (jacket)         5.2 mm ±5%		
Cable weight [g/m]         48,40           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 M/m (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42× 0.15 mm (multi-strand wire class 6)           Diameter (core)         3× 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material (wire isolation)         CFC., halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ±3 D           Wire-Ø incl. Isolation         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt. low- adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ±3 D           Outer-Ø (jacket)         5.2 mm ±5%           Color (jacket)         black           Color (jacket)         black           Color (jacket)         black           Color (jacket)         black	Cable Type	
Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ±3 D           Outer-Ø (jacket)         58 ±3 D           Outer-Ø (jacket)         52 mm ±5%           Color (jacket) <t< td=""><td></td><td></td></t<>		
Resistor (core)         max. 26 Ωkm (20 °C)           Single wire Ø (core)         0.15 mm           Construction (core)         42× 0.15 mm (multi-strand wire class 6)           Diameter (core)         3× 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ± 3 D           Wire-Ø incl. isolation         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shore In addition (and in the property (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ± 3 D           Outer-Ø (jacket)         58 ± 3 D           Color (jacket)         51 ± 3 D           Color (jacket)         52 ± 3 m ± 5%           Color (jacket)         52 ± 3 m ± 5%		48,40
Single wire Ø (core)         0.15 mm           Construction (core)         42 × 0.15 mm (multi-strand wire class 6)           Diameter (core)         3x 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PP           Material property (wire isolation)         CFC., halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ±3 D           Wire-Ø incl. isolation         1.7 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           No         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ±3 D           Outer-Ø (jacket)         5.2 mm ±5%           Color (jacket)         5.2 mm	Material (wire)	Cu wire, bare
Construction (core)  42× 0.15 mm (multi-strand wire class 6)  Diameter (core)  3× 0.75 mm²  AWG  similar to AWG 18  Material (wire isolation)  PP  Material property (wire isolation)  Shore hardness (wire isolation)  58 ±3 D  Wire-Ø incl. isolation  1.7 mm ±5%  Color/numbering of wires  bk numbered, gnye longitudinally striped  Stranding combination  3 wires twisted  Shield  no  Material (jacket)  PUR  Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket)  58 ±3 D  Outer-Ø (jacket)  52 mm ±5%  Color (jacket)  52 mm ±5%  Color (jacket)  52 mm ±5%  Color (jacket)  black  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage  300 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  40+80 °C, (+90 °C at max. 10 000 operating hours)  Emperature range (mobile)  5× outer Ø  Bend radius (fixed)  5× outer Ø  Bend radius (moving)  10× outer Ø  Bend radius (moving)  10× outer Ø  Bend radius (moving)	Resistor (core)	max. 26 <b>Ω</b> /km (20 °C)
Diameter (core) 3 × 0.75 mm² AWG similar to AWG 18  Material (wire isolation) PP  Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 58 ±3 D  Wire-Ø incl. isolation 1.7 mm ±5%  Color/numbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket) 58 ±3 D  Outer-Ø (jacket) 5.2 mm ±5%  Color (jacket) 5.2 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance ffame retardant UL., FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage 300 V AC  Test voltage 2500 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) 5× outer Ø  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø	Single wire Ø (core)	0.15 mm
AWG similar to AWG 18  Material (wire isolation) PP  Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 58 ± 3 D  Wire-0 incl. isolation 1.7 mm ±5%  Color/humbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket) 58 ± 3 D  Outer-Ø (jacket) 5.2 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance fiame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage 300 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) 5× outer Ø  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø	Construction (core)	42× 0.15 mm (multi-strand wire class 6)
Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         58 ±3 D           Wire-Ø incl. isolation         1.7 mm ±5%           Cotor/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant           Shore hardness (jacket)         58 ±3 D           Outer-Ø (jacket)         5.2 mm ±5%           Color (jacket)         5.2 mm ±5%           Color (jacket)         black           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)	Diameter (core)	3× 0.75 mm²
Material property (wire isolation)  Shore hardness (wire isolation)  1.7 mm ±5%  Color/numbering of wires  bk numbered, gnye longitudinally striped  Stranding combination  3 wires twisted  Shield  no  Material (jacket)  PUR  Aderial property (jacket)  Shore hardness (jacket)  Jowanation of the mathematical (jacket)  Jo	AWG	similar to AWG 18
Shore hardness (wire isolation)  58 ±3 D  Wire-Ø incl. isolation  1.7 mm ±5%  Color/numbering of wires  bk numbered, gnye longitudinally striped  Stranding combination  3 wires twisted  Shield  no  Material (jacket)  PUR  Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket)  58 ±3 D  Outer-Ø (jacket)  5.2 mm ±5%  Color (jacket)  black  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage  300 V AC  Test voltage  2500 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile)  5× outer Ø  Bend radius (fixed)  5× outer Ø  Bend radius (moving)  10× outer Ø	Material (wire isolation)	PP
Wire-Ø incl. isolation 1.7 mm ±5%  Color/numbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket) 58 ±3 D  Outer-Ø (jacket) 5.2 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage 300 V AC  Test voltage 2500 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) 5× outer Ø  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Color/numbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket) 58 ± 3 D  Outer-Ø (jacket) 5.2 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage 300 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) 5× outer Ø  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø	Shore hardness (wire isolation)	58 ±3 D
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Shield no  Material (jacket) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket) 58 ±3 D  Outer-Ø (jacket) 5.2 mm ±5%  Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage 300 V AC  Test voltage 2500 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) 5× outer Ø  Bend radius (fixed) 10× outer Ø	Color/numbering of wires	bk numbered, gnye longitudinally striped
Material (jacket)  Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis-, microbial- and welding spark resistant  Shore hardness (jacket)  58 ±3 D  Outer-Ø (jacket)  5.2 mm ±5%  Color (jacket)  black chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage  300 V AC  Test voltage  2500 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile)  5× outer Ø  Bend radius (moving)  10× outer Ø	Stranding combination	3 wires twisted
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Color (jacket)  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage  300 V AC  Test voltage  2500 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile)  -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed)  5 × outer Ø  Bend radius (moving)  10 × outer Ø	Shore hardness (jacket)	58 ±3 D
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thermal resistance flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant  Nominal voltage 300 V AC  Test voltage 2500 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø	Color (jacket)	black
Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø	chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Test voltage       2500 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -40+80 °C, (+90 °C at max. 10 000 operating hours)         Temperature range (mobile)       -25+80 °C, (+90 °C at max. 10 000 operating hours)         Bend radius (fixed)       5× outer Ø         Bend radius (moving)       10× outer Ø	thermal resistance	flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant
Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø	Nominal voltage	300 V AC
Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed)  5× outer Ø  Bend radius (moving)  10× outer Ø	Test voltage	2500 V AC
Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed)  5× outer Ø  Bend radius (moving)  10× outer Ø	Current load capacity	to DIN VDE 0298-4
Temperature range (mobile)  -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed)  5× outer Ø  Bend radius (moving)  10× outer Ø	Temperature range (fixed)	-40+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø		
Bend radius (moving) 10× outer Ø	Bend radius (fixed)	
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	No. of bending cycles (C-track)	max. 10 Mio. (25 °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



Traversing distance (C-track)	max. 5 m (horizontal)
Travel speed (C-track)	max. 3.3 m/s
Acceleration (C-track)	max. 5 m/s <sup>2</sup>
Torsion stress	±360°/m
No. of torsion cycles	max. 1 Mio. (25 °C)
Torsion speed	35 cycles/min
Jacket Color	black
Commercial data	
country of origin	CZ
customs tariff number	85444290
EAN	4048879659291
eClass	27279218
Packaging unit	1