

## M12 MALE $90^{\circ}$ / M12 FEMALE $90^{\circ}$

PUR 3X0.34 YELLOW, UL/CSA, drag ch 5m

Male 90° - female 90°

M12 - M12, 3-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

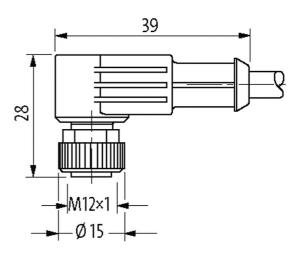
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

## **Link to Product**

## Illustration





Product may differ from Image

## **Approvals**





\* only for products with UL/CSA approved cable

Form	
Form	40241
Technical Data	
Operating voltage	max. 250 V AC/DC
Operating voltage (only UL listed)	max. 30 V AC/DC
Rated surge voltage	2.5 kV
Operating current per contact	max. 4 A
No. of poles	3
Material group	IEC 60664-1, category I

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	connect	ed

Ceneral data         DIN EN 61076-2-101 (M12)           Standards         DIN EN 61076-2-101 (M12)           Mounting method         imended, lightened           Pollution Degree         3           Temperature range         -2585 °C, depending on cable quality           Cables           Wire isolation           PC (F, b), b), b)           Cables           No./diameter of wires           PC (PC (P, d))           Carde properties           A 1 mm ±5%           Cable (wire) (wire)	Coding	A-coded
Locking of ports         Screw thread (M12-1 mm) recommended torque 0.6 km, solf securing           Compression gland         M12 (SW13)           Procession         PP6, PR6K (P67 inserted and sightened (EN 60529)           Locking material         Zinc die casting, matte nickel plated           Material         PUR           Subtable for corrugated tube (internal CI)         10 mm           Ceneral data         DNE N 61076 2 101 (M12)           Mounting method         inserted, sightened           Pollution Degree         3           1 Temperature range         25-455°C, depending on cable quality           Cables         Vivo (application)           No. (diameter of wires)         3 x 0.34 mm²           Wire logistion         PP10, b), b), b)           Cables         PP10, b), b), b), c)           Wire logistion         PP10, b), b), c), c), c), c), c), c), c), c), c), c	LED display	no
Compression gland         M12 (SW13)           Profection         IPRS, IPRS (IPRS INST inserted and fightened (EN 80529)           Locking masterial         2 Inc. disc casting, matter nickel plated           Malerial         PUR           Subtable for corrugated table (Internal C)         10 mm           Coneral data         Coneral data           Sundards         DIN EN 6 (076-2-101 (M12)           Moduriting method         Inserted, Bigitatined           Follution Degree         3           Temporature range         25-485 °C, depending on cable quality           Cables           Wise boolston         PP (Dr. Dt. bit)           Chack properties         10 Mo.           Moderating (sever)         PUR (ULCSA)           Outer O         4.1 mm 15%           Bend radius (nowing)         10 sounder O           Temperature range (fixed)         40 -480 °C           Temperature (range (mobile)         23-5-80 °C           Cable identification         033           Cable (experiment (active)         28-70 °C           Cable (experiment (active)         28-70 °C           Approval (active)         28-70 °C           Cable (experiment (active)         28-70 °C           Malerial (vire)         C wire, bare	· · · · · · · · · · · · · · · · · · ·	Screw thread (M12×1 mm) recommended torque 0.6 Nm. self-securing
Protection         IP65, IP66K, IP67 inserted and tightered (EN 60529)           Locking mathral         Zinc die casting, mathr inckel plated           Mathral au         PUR           suitable for corrugated tube (internal (2))         10 mm           General dists         Standards           Standards         DIN EN 61076 2-101 (M12)           Mounting method         inserted, bythened           Pollution Degree         3           Temperature range         -2548.5° C, depending on cable quality           Cables         No3 marker of wires           No3 marker of wires         3.0.34 mm²           View isolation         PP (Dr. Dl. bk)           C-2 rack properties         10 Mio.           Material (gloset)         PUR (ULCSA)           Outer Ø         4.1 mm 45%           Bend radius (moving)         10 - outer Ø           Temperature range (fised)         -4080 °C           Temperature range (fised)         -2580 °C           Cable identification         0.33           Cable identification         0.33           Cable identification         0.35           Cable identification         0.2560 °C           Cable identification         0.2570 Cmm (moving)           Cable identificati		
Looking material         Zinc die casting, mate nickel plated           Material         PUR           suitable for corrugated tube (internal 0)         10 mm           General dats         DN EN 61076 2-101 (M12)           Mounting method         inserted, Sightended           Pollusion Degree         3           Tomperature range         25 - 485 °C, depending on cable quality           Cables         Vivolender of wires           Wire Isolation         PP (Dr. Dl. Dk)           Chacks         10 Mio.           Marchaf (jacke)         PUR (ULCSA)           Cutes 0         4.1 mm ±5%           Bend radius (moving)         10 + outer 0           Bend radius (moving)         10 + outer 0           Temperature range (mobile)         -25 - 480 °C           Cabbie identification         03           Cabbie identification         033           Cabbie identification         033           Cabbie weight (jim)         29 - 70           Marterial (wire)         Culwire, bare           Resistor (core)         10 - 1 mm           Single wire 0 (core)         0.1 mm           Construction (core)         42 - 0.1 mm (multi-strand wire class 6)           Diameter (core)         3.0 4 mm²		, ,
Material         PUR           suitable for corrugated tube (internal I/O)         10 mm           Conceral data         Conceral data           Conceral data         DIN EN 61076-2-101 (M12)           Mounting method         inserted, Spitened           Pollution Degree         3           Temporature range         -2685 °C, depending on cable quality           Cables           Wo.cliameter of wires         3 v 0.34 mm²           Wire isolation         PP 6x rb, blAb           C-track properties         10 Mio.           Material goaket         PUR (ULCSA)           Couter Q         4.1 mm 45%           Bend radius (mowing)         10 souther Q           Temporature range (fixed)         4-080 °C           Temporature range (fixed)         4-080 °C           Cabbic Type         3 (PUR)           Approval (cabble)         CUR (cabbit Type)         3 (PUR)           Approval (cabble)         CUR (cabbit Type)         3 (PUR)           Approval (cabbit Type)         3 (PUR)         4 (PUR)           Approval (cabbit Type)         3 (PUR)         4 (PUR)           Resistor (core)         max. 57 (DMm (20 °C)         5 (DMm (20 °C)           Single wire (9 (core)         0.1		The state of the s
Sundards	· · · · · · · · · · · · · · · · · · ·	
Standards         DN En 61076-2-101 (M12)           Mounting method         inserted, tightened           Follution Degree         3           Temperature range         2585 °C, depending on cable quality           Chaise         Cartery commenter of wires         3 × 0.34 mm²           Moz. diameter of wires         3 × 0.34 mm²           Wire sociation         PP (br. bl. bk)           C Eack properties         10 Min.           Material (gacket)         PDR (ULCSA)           Cuter Ø         4.1 mm ±5%           Bend radius (moving)         10 votar Ø           Temperature range (toked)         4080 °C           Temperature range (mobile)         2580 °C           Cable identification         033           Cable (identification)         034           Cable (identification)         035           Cable (identification)         045           Cable (identification)         040 <th< td=""><td>suitable for corrugated tube (internal Ø)</td><td></td></th<>	suitable for corrugated tube (internal Ø)	
Standards         DN En 61076-2-101 (M12)           Mounting method         inserted, tightened           Follution Degree         3           Temperature range         2585 °C, depending on cable quality           Chaise         Cartery commenter of wires         3 × 0.34 mm²           Moz. diameter of wires         3 × 0.34 mm²           Wire sociation         PP (br. bl. bk)           C Eack properties         10 Min.           Material (gacket)         PDR (ULCSA)           Cuter Ø         4.1 mm ±5%           Bend radius (moving)         10 votar Ø           Temperature range (toked)         4080 °C           Temperature range (mobile)         2580 °C           Cable identification         033           Cable (identification)         034           Cable (identification)         035           Cable (identification)         045           Cable (identification)         040 <th< td=""><td>General data</td><td></td></th<>	General data	
Mounting method         inserted, tightened           Pollution Degree         3           Temperature range         -2545° °C, depending on cable quality           Cables           No./diameter of wires         3 × 0.34 mm²           Wire Isolation         PP (tr. bl. bk)           C track properties         10 Mio.           Material (acket)         PUR (UL/GSA)           Outer Ø         4.1 mm ±5%           Bend radius (mowing)         10 × outer Ø           Temperature range (fixed)         4080 °C           Temperature range (mobile)         25480 °C           Cable infection         033           Approval (cable)         URUS (AWM-Style 20549/10493); CE conform           Cable Type         3 (PUR)           Approval (cable)         CUR (AWM-Style 20549/10493); CE conform           Resistor (core)         max. 57 Ωkm (20 °C)           Single wire Ø (core)         O.1 mm           Resistor (core)         max. 57 Ωkm (20 °C)           Single wire Ø (core)         0.1 mm (multi-strand wire class 6)           Diameter (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (acte)         CPC-, halogen-, cadmium-, silicone- and lead-free<		DIN FN 61076-2-101 (M12)
Pollution Degree         3           Temperature range         -25185 °C, depending on cable quality           Cables         Wine isolation           Wire isolation         PP (pr. bl, bk)           Carack properties         10 Mine.           Material (jacker)         PUR (ULCSA)           Outer Ø         4.1 mm 5%           Bend radius (mowing)         10 × outer Ø           Temperature range (fixed)         -40180 °C           Temperature range (mobile)         25480 °C           Cable identification         033           Cable Type         3 (PUR)           Approval (cable)         CURUS (ANIMA-Style 20549/10493); CE conform           Cable weight (gm)         29.70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Rkm; (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           Material (wire isolation)         PP           Material property (wire isolation)         CFC , halogen , cadmium , silicone - and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-Q incl. isolation         3 wires twisted		
Cables           Cabies           No./diameter of wires         3 × 0.34 mm²           Wire isolation         PP [br. bl. bk)           C-frack properties         10 Mio.           Material (jacket)         PUR (ULCSA)           Outer Ø         4.1 mm ±5%           Bond radius (moving)         10 × outer Ø           Temperature range (fixed)         40 → 80 °C           Temperature range (mobile)         -25 → 80 °C           Cable identification         033           Cable Type         3 (PUR)           Approval (cable)         ∪URus (AWM-Syle 20549/10493); CE conform           Cable weight (jim)         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 dkm (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 · 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC , hallogen - cadmium - silicone - and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-Ø Incl. isolation         1 ±25 mm ±5%		
Cables         No. diameter of wires         3 × 0.34 mm²           Wire Isolation         PP (br. bl., bk)           C track properties         10 Mio.           Material (jacket)         PUR (UL/CSA)           Outer Ø         4.1 mm ±5%           Bend radius (moving)         10 × outer Ø           Temperature range (fixed)         40 × e80 °C           Cable identification         33           Cabic identification         33           Cabic identification         33           Cabic weight (g/m)         29,70           Cabic weight (g/m)         29,70           Cu wire, bare         Resistor (core)           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           Material (wire isolation)         PP           Material (wire isolation)         PP           Material property (wire isolation)         CFC, halogen, cadmium, silicone- and lead-free           Wire-Ø incl. isolation         1,25 mm ±5%           Colorinumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield </td <td></td> <td></td>		
No.diameter of wires         3 × 0.34 mm²           Wire isolation         PP (br, b), bk)           C-track properties         10 Mio.           Material (jacket)         PUR (ULCSA)           Outer Ø         4.1 mm ±5%           Bend radius (moving)         10 × outer Ø           Temperature range (fixed)         -40+80 ° C           Temperature range (mobile)         -25+80 ° C           Cable identification         033           Cable identification         033           Cable Type         3 (PUR)           Approval (cable)         cURus (ANM-Style 20549/10493); CE conform           Cable weight (g/m)         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shreading combination         3 wires twisted           Shried         no           Material (proket)		25+00 O, depending on cable quality
Wire isolation         PP (br, bl, bk)           C-track properties         10 Mio.           Material (jacket)         PUR (ULUCSA)           Cuter Ø         4.1 mm ±5%           Bend radius (moving)         10x outer Ø           Temperature range (fixed)         +0x-80 °C           Temperature range (mobile)         -25480 °C           Cable identification         033           Cable Type         3 (PUR)           Approval (cable)         URIA (AMM-Style 20549/10493); CE conform           Cable weight (g/m)         29.70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ωkm (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42x 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material property (wire isolation)         PP           Wire-Ø Incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Strending combination         3 wires wisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resis		
C-track properties         10 Mio.           Material (jacket)         PUR (ULCSA)           Outer Ø         4.1 mm =5%           Bend radius (moving)         10× outer Ø           Temperature range (fixed)         -40480 °C           Temperature range (mobile)         -25480 °C           Cable dentification         033           Approval (cable)         cURus (AWM-Syle 20549/10493); CE conform           Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material (wire isolation)         CPC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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)         PUR           Material (jacket)		
Material (jacket)         PUR (ULCSA)           Outer Ø         4.1 mm ±5%           Bend radius (moving)         10× outer Ø           Temperature range (fixed)         40+80 °C           Temperature range (mobile)         25+80 °C           Cable identification         033           Cablo Type         3 (PUR)           Approval (cable)         UBus (AWM-Style 20549/10493); CE conform           Cable weight (g/m]         29.70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Øxm (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42x 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 v. 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material (wire isolation)         PP           Wire-Ø incl. isolation         1.25 mm ±5%           Color/mubering of wires         br, bk, bl           Stranding combination         3 wires twisted           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant	Wire isolation	PP (br, bl, bk)
Outer Θ         4.1 mm ±5%           Bend radius (moving)         10 × outer Θ           Temperature range (fixed)         -40+80 °C           Temperature range (mobile)         -25+80 °C           Cable identification         033           Cable identification         033           Cable Type         3 (PUR)           Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ωkm (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 · 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material (wire isolation)         PP           Mire-Ø incl. isolation         1,25 mm ±5%           Wire-Ø incl. isolation         1,25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, sillicon	C-track properties	
Bend radius (moving)         10 × outer Ø           Temperature range (fixed)         40+80 °C           Temperature range (mobile)         -25+80 °C           Cable identification         03           Cable Type         3 (PUR)           Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC , halogen , cadmium , silicone , and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, lok, bl           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 and microbial resistant           Shield<	Material (jacket)	PUR (UL/CSA)
Temperature range (fixed)         -40+80 °C           Temperature range (mobile)         -25+80 °C           Cable (dentification)         033           Cable Type         3 (PUR)           Approval (cable)         cURJus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29.70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 ½km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant. hydrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket	Outer Ø	4.1 mm ±5%
Temperature range (mobile)         -25+80 °C           Cable identification         033           Cable Type         3 (PUR)           Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ωkm (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket)	Bend radius (moving)	10× outer Ø
Cable Identification         033           Cable Type         3 (PUR)           Approval (cable)         cURUS (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, 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)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Short- Audition         9.5 A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         4.1 mm ±5%           Color (jacket)         4.1 mm ±5%	Temperature range (fixed)	-40+80 °C
Cable Type         3 (PUR)           Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29.70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42x 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         1.25 mm ±5%           Color/numbering of wires         br, bl.           Stranding combination         3 wires twisted           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket)         yellow           Color (jacket)         yellow           chermical resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC <td>Temperature range (mobile)</td> <td>-25+80 °C</td>	Temperature range (mobile)	-25+80 °C
Approval (cable)         cdRus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         yellow           Chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)      <	Cable identification	033
Cable weight [g/m]         29,70           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire Isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness (jacket)         90 ± 5 A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         yellow           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 6033	Cable Type	3 (PUR)
Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         yellow           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300	Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±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)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         yellow           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC	Cable weight [g/m]	29,70
Single wire Ø (core)  0.1 mm  Construction (core)  42× 0.1 mm (multi-strand wire class 6)  Diameter (core)  3× 0.34 mm²  AWG  similar to AWG 22  Material (wire isolation)  PP  Material property (wire isolation)  CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation)  70 ±5 D  Wire-Ø incl. isolation  1.25 mm ±5%  Color/numbering of wires  Shield  no  Material (jacket)  Material (property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket)  90 ±5 A  Outer-Ø (jacket)  Color (jacket)  yellow  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage	Material (wire)	Cu wire, bare
Construction (core) 42× 0.1 mm (multi-strand wire class 6)  Diameter (core) 3× 0.34 mm²  AWG similar to AWG 22  Material (wire isolation) PP  Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 70 ±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) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket) 90 ±5 A  Outer-Ø (jacket) 4.1 mm ±5%  Color (jacket) yellow  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FTZ / IEC 60332-2-2  Nominal voltage	Resistor (core)	max. 57 Ω/km (20 °C)
Diameter (core) 3x 0.34 mm²  AWG similar to AWG 22  Material (wire isolation) PP  Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 70 ±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) PUR  Material property (jacket) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket) 90 ±5 A  Outer-Ø (jacket) 4.1 mm ±5%  Color (jacket) yellow  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Single wire Ø (core)	0.1 mm
AWG similar to AWG 22  Material (wire isolation) PP  Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 70 ±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) PUR  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket) 90 ±5 A  Outer-Ø (jacket) 4.1 mm ±5%  Color (jacket) yellow  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Construction (core)	42× 0.1 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)       70 ±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)       PUR         Material property (jacket)       CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant         Shore hardness (jacket)       90 ±5 A         Outer-Ø (jacket)       4.1 mm ±5%         Color (jacket)       yellow         chemical resistance       good resistance to oil, gasoline and chemicals (EN 60811-404)         thermal resistance       flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2         Nominal voltage       300 V AC	Diameter (core)	$3 \times 0.34 \text{ mm}^2$
Material property (wire isolation)  CFC-, halogen-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation)  70 ±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)  PUR  Atterial property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket)  90 ±5 A  Outer-Ø (jacket)  Color (jacket)  yellow  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage	AWG	similar to AWG 22
Shore hardness (wire isolation)  70 ±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)  PUR  Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket)  90 ±5 A  Outer-Ø (jacket)  4.1 mm ±5%  Color (jacket)  yellow  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage  300 V AC	Material (wire isolation)	PP
Wire-Ø incl. isolation  1.25 mm ±5%  Color/numbering of wires br, bk, bl  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 and microbial resistant  Shore hardness (jacket) 90 ±5 A  Outer-Ø (jacket) 4.1 mm ±5%  Color (jacket) yellow chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Color/numbering of wiresbr, bk, blStranding combination3 wires twistedShieldnoMaterial (jacket)PURMaterial property (jacket)CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistantShore hardness (jacket)90 ±5 AOuter-Ø (jacket)4.1 mm ±5%Color (jacket)yellowchemical resistancegood resistance to oil, gasoline and chemicals (EN 60811-404)thermal resistanceflame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2Nominal voltage300 V AC	Shore hardness (wire isolation)	70 ±5 D
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 and microbial resistant  Shore hardness (jacket) 90 ± 5 A  Outer-Ø (jacket) 4.1 mm ±5%  Color (jacket) yellow  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Wire-Ø incl. isolation	1.25 mm ±5%
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 and microbial resistant  Shore hardness (jacket) 90 ±5 A  Outer-Ø (jacket) 4.1 mm ±5%  Color (jacket) yellow  chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Color/numbering of wires	br, bk, bl
Material (jacket)  Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket)  90 ±5 A  Outer-Ø (jacket)  4.1 mm ±5%  Color (jacket)  yellow  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage  300 V AC	Stranding combination	3 wires twisted
Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness (jacket)  90 ±5 A  Outer-Ø (jacket)  4.1 mm ±5%  Color (jacket)  yellow  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage  300 V AC	Shield	no
resistant, hydrolysis and microbial resistant  Shore hardness (jacket)  90 ±5 A  Outer-Ø (jacket)  4.1 mm ±5%  Color (jacket)  yellow chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Material (jacket)	PUR
Outer-Ø (jacket)  4.1 mm ±5%  Color (jacket)  yellow  chemical resistance  good resistance to oil, gasoline and chemicals (EN 60811-404)  thermal resistance  flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage  300 V AC	Material property (jacket)	
Color (jacket) yellow chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC	Shore hardness (jacket)	90 ±5 A
chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 Nominal voltage 300 V AC	Outer-Ø (jacket)	4.1 mm ±5%
thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC	Color (jacket)	yellow
Nominal voltage 300 V AC	chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Nominal voltage 300 V AC	thermal resistance	flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2
•	Nominal voltage	300 V AC
	Test voltage	2500 V AC

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

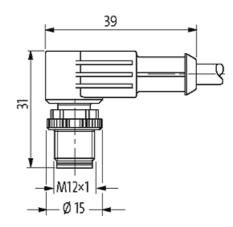
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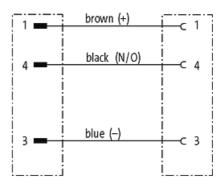


Current load capacity	to DIN VDE 0298-4
Temperature range (fixed)	-40+80 °C, (+90 °C at max. 10 000 operating hours)
Temperature range (mobile)	-25+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (fixed)	5× outer Ø
Bend radius (moving)	10× outer Ø
No. of bending cycles (C-track)	max. 10 Mio. (25 °C)
Traversing distance (C-track)	max. 5 m (horizontal)
Travel speed (C-track)	max. 3 m/s
Acceleration (C-track)	max. 10 m/s <sup>2</sup>
Torsion stress	±180°/m
No. of torsion cycles	max. 2 Mio. (25 °C)
Torsion speed	35 cycles/min
Jacket Color	yellow
Commercial data	
country of origin	DE
customs tariff number	85444290
EAN	4048879173476
eClass	27279218
Packaging unit	1
Sketch	



stay connected





Male

Female





Product may differ from Image