

## M12 male 0° / M12 female 0° shielded

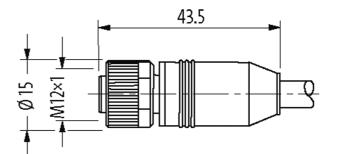
PUR 8x0.25 shielded gy UL/CSA+drag chain 6m

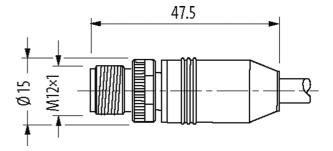
Male straight – female straight M12 – M12, 8-pole shielded Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image

Approvals		
	* only for products with UL/CSA approved cable	cCSAus
Listed		
Form		
Form	48041	
General data		

Standards	DIN EN 61076-2-101 (M12)
Temperature range	-25+85 °C, depending on cable quality
Cables	
No./diameter of wires	8× 0.25 mm <sup>2</sup>

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: 11/20

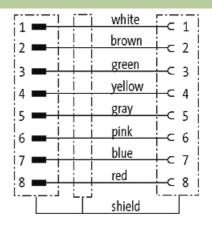


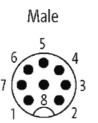
Wire isolation     IP (wh, br. gr., ye, gr., bl. ot)       Catack properties     5 Mo.       Material (growel)     PUR (JUL/SK)       Cutar 0     7.0 mm :5%.       Each ratus (moving).     10- cuter 0       Temperature range (toted)     4000 * C       Cable Identification     23 I       Cable Identification     20 I/UR Identification       Approval (cable)     ULRs (AMM Syle 20540) 10430; CE conform       Cable Identification     max. 73 0/m (20 * C)       Single Wire B(cole)     3 - 0.26 mm?       AWCI     animize to XWO 24       Material property (vire Isolaton)     CPC - halogen, cadmium, silicone- and lead-free       Single Importer (vire Isolaton)     70 - 50 Importer vire Isolaton       Cable thorings (vire Isolaton)     PC - halogen, cadmium, silicone- an	14 P 1 1 1	
Material (jackel)     PUR (ULOSA)       Cuter (0     7.0 mm 45%.       Born radius (moving)     10 - oulor (0       Temperature range (mobile)     25480 °C       Cable (dentification     291       Cable (dentification)     291       Cable (dentification)     291       Cable (optimization)     201480 °C       Cable (dentification)     291       Cable (dentification)     CBU wide, bare       Resider (core)     0.1 mm       Construction (core)     92+0.1 mm (multi-strand wire datas 6)       Diameter (core)     8-0.25 ma*       AWG     smillar to AWG 24       Material (wrie location)     PP       Material (wrie location)     CPC-, halogen-, cadmium-, silicone- and lead free       Stron hachress (wrie location)     12 th mm 5%.       Colormatoris of wries     thrw, rd, bi, rk, ry, e, on       Stranding combination     8 wires twisted around central filler       Stranding conti	Wire isolation	PP (wh, br, gn, ye, gr, pk, bl, rd)
Duter Ø     7.0 mm 15%       Bend radiu (moving)     10× cuber Ø       Temperature range (mobile)     4580 °C       Cable identification     291       Cable weights/m)     78.10       Material (wing)     Cu viric baro       Restort (core)     max. 79 QKm (20 °C)       Single wir Ø (Core)     0.1 mm       Construction (core)     8-0.25 mm²       AVKO     similar to MVG 24       Material (wire locataion)     PP       Material groups (wire locataion)     7.0 5.0       Stron tarrises (location)     7.0 5.0       Material groups (wire locataion)     7.0 5.0       Material groups (wire locataion)     7.0 for 0.0       Stron tarrises (locataionation     8 wires buisted around contrat filler </td <td>C-track properties</td> <td></td>	C-track properties	
Berd radius (moving)     10× outer Ø       Temperature range (mobile)     42540° C       Cable identification     251       Cable weight (gm)     0LRus (AMM.Style 20549/10493); CE conform       Cable weight (gm)     78.10       Material (wite)     Cu wire, bare       Pesidor (core)     max. 79 Okm (20 °C)       Single weight (gm)     0.1 mm       Construction (core)     32-0.1 mm (multi shard wire dass 6)       Dametter (core)     8.0 252 mm²       AVX0     similar to AWG 24       Material property (wire isolation)     PP       Metrial incolution     1.2 m ±5%       Colorishumbering of Wires     bir, wir, tob, gr., o, gm       Standing combination     1.2 m ±5%       Colorishumbering of Wires     bir, wire, tob, di gaschin       Colorishumbering of Wires     bir, wire, tob, di gaschin       Standing combination     8 wires Weisde around contral filler       Standing combination     9 wires	Material (jacket)	PUR (UL/CSA)
Temperature range (inset)   4040° °C     Temperature range (inset)   2540° °C     Cable Type   3 (PUR)     Approval (cable)   CURs (AVM-Style 2054/10433); CE conform     Cable Type   3 (PUR)     Approval (cable)   CURs (AVM-Style 2054/10433); CE conform     Cable weight [gm]   76,0     Material (wire)   Cu wire, bare     Resistor (core)   max.79 0km (80 °C)     Single wire 0 (core)   0.1 mm     Construction (core)   32× 0.1 mm (multistand wire datas 6)     Diameter (core)   8× 0.25 mm!     AVC   aimmet to AVG 24     Material (wire isolation)   PP     Material (wire isolation)   PP     Material (wire isolation)   70 ±5 D     Wire Orth isolation   1.2 mm ±5%     ColorimuteDring of wires   br.wh, N, U.B.Ly Gr.yre, gr.     Stranding combination   8 wires twisted around central filter     Shire hardmess (jacket)   PUR     ColorimuteDring of wires   Dr.wh, N, U.B.Ly Gr.yre, gr.     Stranding combination   8 wires twisted around central filter     Shire hardmess (jacket)   PUR     Color (jackot)   P	Outer Ø	7.0 mm ±5%
Temperature range (mobile)   25480 °C     Cable identification   291     Cable veget   cultRus (ANMA-Style 20540110493); CE conform     Cable veget   0.1 min     Resistor (core)   max. 73 0.hm (20 °C)     Single wire Ø (core)   0.1 min     Construction (core)   32-0.21 mm (multi stand wire dass 8)     Diameter (core)   8-0.25 mm²     AWC   aimlar to AWQ 24     Material (wire isolation)   PP     Material (wire isolation)   7.0 + 5.0     Vire - Sind Lisolation   1.2 ms. 5%     Colorhumbering of wires   b1, wh. rd, b1, bk, gr, ye, gn     Stranding combination   8 wires wired around central filler     Sheld   yes     Material (isoket)   PUR     Material (isoket)   PUR     Material (isoket)   9.0 + A     Outer-Ø (jacket)   7.0 mm. 5%     Color (disket)   grav     Tennestanco   fiame relandant UL 1581 VWH / CSA FT1 / IEC 60332-1. IEC 603	Bend radius (moving)	10× outer Ø
Cable Identification 291   Cable Identification 291   Cable Type 3 (FUR)   Approval (cable) cURus (AWM-Style 20549/10433); CE conform   Cable Weight [bm1] 78.10   Material (wire) Cu wire, bare   Pesisator (coro) max. 79 0.4m (20 °C)   Single wire 04 (coro) 0.1 mm   Construction (coro) 32× 0.1 mm (multi-stand wire datas 6)   Diameter (coro) 8+ 0.25 mm²   AWC similar to AWG 24   Material (wire isolation) PP   Material (wire isolation) 70 ± D   Wires-Onic Isolation 1.2 mm =5%   Colorthumbering of wires br , wh. (d. b. jkk gr. yu, un   Stranding combination 8 wires isolation   Yes PUR   Material (scket) 7.0 mm =5%   Colorthumbering of wires 5.0 A   Material (scket) PUR   Material (scket) PUR   Material (scket) 7.0 mm =5%   Color (scket) 7.0 mm =5%   Color (scket) 7.0 mm =5%   Color (scket) 7.0 mm =5%	Temperature range (fixed)	-40+80 °C
Cable Type     9 (PUR)       Approval (cable)     cDRus (AVM Skyle 20549/10493); CE conform       Cable weight [gin]     76,0       Material (wire)     Cu wire, bare       Resistor (core)     max. 79 (Arm (20 °C))       Single wire O(core)     0.1 mm       Construction (core)     84:025 mm²       Canstruction (core)     84:025 mm²       Material (wire isolation)     PP       Material property (wire isolation)     CPC-c, halogen-, cadmium-, silicone- and lead-free       Shore hardness (wire isolation)     70 fb       Wire-8 ind. isolation     1.2 mm +5%       Calor/mubering of wires     br., wh., d, bl., bg. yue, gn       Stranding combination     8 wires twisted around central filler       Shore hardness (wire loadion)     PUB       Material property (acket)     CFC-, halogen -, cadmium-, silicone- and lead-free, matil, low-adhesion, machine easy to process, abrasion- reastant hydrolysis and microbial resistant       Shore hardness (gackot)     90 fb A       Calor (gackot)     70 mm 25%       Calor (gackot)     70 m 25%       Calor (gackot)     70 m 25%       Calor (gackot)     70 m 25%       Calor (gac	Temperature range (mobile)	-25+80 °C
Approval (cable)   cURus (AWIA-Style 20549/10493); CE conform     Cable weight [gm]   78,10     Resider (core)   max. 79 0.km (20 °C)     Single wie Ø (core)   0.1 mm     Construction (core)   32 + 0.1 mm (multi-strand wire class 6)     Diameter (core)   32 + 0.1 mm (multi-strand wire class 6)     Diameter (core)   32 + 0.1 mm (multi-strand wire class 6)     Diameter (core)   32 + 0.1 mm (multi-strand wire class 6)     Diameter (core)   8 + 0.25 mm?     AWG   similar to AWG 24     Material property (wire isolation)   PP     Material property (wire isolation)   70 + 5.0     Wire-O ind. Isolation   1.2 mm ±5%     Colorhumbering of wires   br, wh, rd, bl, pl, gr, ye, gn     Stranding combination   8 wires twisted around central filler     Shied   yes     min. 80%   CFC-, halogen-, cadmium-, silicone- and lead-free, mat, low-adhesion, machine easy to process, abrasion-resistant, tydrolysis and microbal resistant     Shoe hardness (jacket)   90 ± 5.A     Outer-Ø (jackat)   7.0 mm ±5%     Calor (jackat)   gray     charriacel stance   fame retardant UL 1581 VW1 / CSA F11 / IEC 60332 + 2.2     Nominal v	Cable identification	291
Cable weight [gim]   78,10     Material (wire)   Cu wire, Dare     Resistor (core)   max.79 A/km (20 °C)     Single wire 90 (core)   0.1 mm     Construction (core)   32+ 0.1 mm (multi-strand wire class 6)     Dlameter (core)   8+ 0.25 mm²     AWG   similar to AWG 24     Material (wire isolation)   PP     Material property (wire isolation)   CPC, halogen, cadmium, silicone- and lead-free     Shore hardness (wire isolation)   70 ± 5D     Wire-0 incl.isolation   1.2 mm ± 5%     Colorinumbering of wires   br, wh, rd, bl, pd, gr, ye, gn     Stranding combination   8 wires twisted around central filler     Shield   yes     min.80%   min.80%     Material property (jacket)   CPC-, halogen, cadmium, silicone- and lead-free, mat, tow-adhesion, machine easy to process, abrasion- resistant, hydrolysis and microbial resistant     Shore hardness (jacket)   90 ± 5A     Color (jacket)   PUR     Material resistance   good resistance to oil, gasoline and chemicats (EN 60811-404)     thermal resistance   fame retardant UL 1581 VWI / CSAFT / IEC 60332-4     Nominal voltage   300 V AC     Current load capacity	Cable Type	3 (PUR)
Material (wire)     Cu wire, bare       Resistor (core)     max. 79 Akm (20 °C)       Single wire Ø (core)     0.1 mm       Construction (core)     32-0.1 mm (multi-strand wire class 6)       Diameter (core)     8 x 0.25 mm²       AWG     similar to AWG 24       Material (wire isolation)     PP       Material (wire isolation)     CPC - halogen-, cadmum-, silicone - and lead-tree       Shore hardness (wire isolation)     TO +5D       Vire - Ølnd: Joalon     1.2 mm 25%       Colgrinumbering of wires     br. wh. rd. bl. pk. gr. ye. gn       Stranding combination     8 wires twisted around central filler       Shield     yvs       Material (isoket)     PUR       Material (isoket)     PUR       Material (isoket)     GPC-7C, halogen-, cadmium-, silicone - and lead-free, mat. low-adhesion, machine easy to process, abrasion-resistant       Shield     yvs       Material (isoket)     PUR       Material (isoket)     GPC-7C, halogen - cadmium - silicone - and lead-free, mat. low-adhesion, machine easy to process, abrasion-resistance       Glocht     7.0 mm 25%       Color (iacket)     90 ± 5 A       Colure (iacket)	Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
Resistor (core)   max. 79 0 km (20 °C)     Single wire Ø (core)   0.1 mm     Construction (core)   32 × 0.1 mm (multi-strand wire class 6)     Diameter (core)   8× 0.25 mm <sup>2</sup> AWG   similar to AWG 24     Material property (wire isolation)   PP     AWG   Shore hardness (wire isolation)     70 ± 5 D   Wire-3 inol. isolation     Shore hardness (wire isolation)   70 ± 5 D     Wire-3 inol. isolation   1.2 mm ±5%     Colorinumbering of wires   br, wh, rd, bl, pk, gr, ye, gn     Stranding combination   8 wires wisted around contral filler     Shore hardness (icket)   PUH     Material (jacket)   PUH     Material (jacket)   90 ± 5 A     Couler Ø (jacket)   7.0 mm ± 5%.     Color (jacket)   gray     Color (jacket)   gray     Material (jacket)   PUH     Material (jacket)   90 ± 5 A     Couler Ø (jacket)   gray     Color (jacket)   gray     Color (jacket)   gray     Color (jacket)   10 xm ± 5%.     Color (jacket)   gray     Test voltag	Cable weight [g/m]	78,10
Single wire Ø (core)   0.1 mm     Construction (core)   32× 0.1 mm (multi-strand wire dass 6)     Diameter (core)   8× 0.25 mm²     AWG   similar to AWG 24     Material (wire isolation)   PP     Material property (wire isolation)   CFC-, halogen, cadmium-, silicone- and lead-free     Share hardness (wire isolation)   70 ±5 D     Wire -Oin, Isolation   8 wires wisted around central filler     Stranding combination   8 wires wisted around central filler     Shield   yes     Material (jackel)   PUR     Material property (jackel)   CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrobyis and microbial resistant     Shield   yes     Material property (jackel)   PUR     Material property (jackel)   PUR     Material property (jackel)   gray     Color (jackel)   90 ±5 A     Outer-Ø (jackel)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   flame retardant UL 1581 WWI / CSA FT1 / IEC 60332-1, IEC 60	Material (wire)	Cu wire, bare
Construction (core)     32× 0.1 mm (multi-strand wire class 6)       Diameter (core)     8× 0.25 mm²       AWG     similar to AWG 24       Material (vire isolation)     PP       Material property (wire isolation)     CFC-, halogen-, cadmium-, silicone- and lead-free       Shore hardness (wire isolation)     T0 ± 5 D       Wire-Oinci. Isolation     1.2 mm ±5%       Colorinumbering of wires     br, wh. rd, bl, pk, gr, ye, gn       Stranding combination     8 wires twisted around central filler       Shide     yes       (min. 80%     min. 80%       Material (jacket)     PUR       Material (jacket)     PUR       Material property (jacket)     CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrobysis an dinorobial resistant       Shore hardness (jacket)     90 ± 5 A       Coler (jacket)     7.0 mm ±5%       Color (jacket)     gray       chemical resistance     flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-3.2       Nominal voltage     300 V AC       Current load capacity     to DIN VDE 0298-4       Temperature range (fixed)     5x.ouler Ø	Resistor (core)	max. 79 Ω/km (20 °C)
Diameter (core)     8 × 0.25 mm²       AWG     similar to AWG 24       Matorial (wire isolation)     PP       Material property (wire isolation)     CPC-, halogen-, cadmium-, silicone- and lead-free       Shore hardness (wire isolation)     70 ± 5 D       Wire-0 incl. isolation     1.2 mm ±5%.       Colorhumbering of wires     br, wh. rd. bl, pk, gr, ye, gn       Shranding combination     8 wires wisted around central filler       Shield     yes       min. 80%     material (jacket)       PUR     Material (jacket)       PUR     Material (jacket)       Material (jacket)     PUR       Material (jacket)     PUR       Material (jacket)     PUR       Material property (jacket)     7.0 mm ±5%.       Color (jacket)     90 ± 5 A       Outer-0 (jacket)     gray       Chemical resistance     fiame retardant U. 1561 VW1 / CSA FT1 / EC 60332-1. EC 60332-2-2       Noninal voltage     2000 V AC       Current toad capacity     to DIN VDE 6298-4       Current toad capacity     to DIN VDE 6298-4       Eend radius (fixed)     5 x outer Ø	Single wire Ø (core)	0.1 mm
AWG     similar to AWG 24       Material (wire isolation)     PP       Material (wire isolation)     CFC-, halogen-, cadmium-, silicone- and lead-free       Shore hardness (wire isolation)     70 ± D       Wire-Øincl. isolation     1.2 mm ±5%.       Colorinumbering of wires     br, wh, rd, bl, pk, gr, ye, gn       Stranding combination     8 wires twisted around central filter       Shield     yes       Material (jacket)     PUR       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)     7.0 mm ±5%.       Color (jacket)     gray       chemical resistance     gara       color (jacket)     gray       chemical resistance     flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2:2       Nominal voltage     2000 V AC       Test voltage     2000 V AC       Test voltage     2000 V AC       Temperature range (mobile)     -25+80 °C, (+90 °C at max. 10 000 operating hours)	Construction (core)	32× 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-Qincl. isolation     1.2 mm ±5%       Coloriumbering of wires     br, wh, rd, bl, pk, gr, ye, gn       Stranding combination     8 wires bristed around central filler       Shield     yes       min. 80%     material filler       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)     7.0 mm ±5%       Color (jacket)     7.0 mm ±5%       Color (jacket)     7.0 mm ±5%       Color (jacket)     gray       chemical resistance     good resistance to oil, gasoline and chemicals (EN 60811-404)       thermal resistance     flame retardant UL 1581 VWH / CSA FT1 / IEC 60332-1, IEC 60332-12       Nominal voltage     300 V AC       Current load capacity     to DIN VDE 0298-4       Temperature range (mobile)     -25480 °C (+40° °C at max. 10 000 operating hours)	Diameter (core)	8× 0.25 mm <sup>2</sup>
Atterial property (wire isolation)   CFC-, halogen-, cadmium-, silicone- and lead-free     Shore hardness (wire isolation)   70 ±5 D     Wire-3 incl. isolation   1.2 mm ±5%     Colorhumbering of wires   br, wh, rd, bl, pk, gr, ye, gn     Stranding combination   8 wires twisted around central filler     Shield   yes     min. 80%   min. 80%     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)   7.0 mm ±5%     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     hermal resistance   fiame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2.2     Nominal voltage   300 V AC     Test voltage   2000 V AC     Current load capacity   to DIN VDE 0289-4     Temperature range (ixed)   -40+80 °C, (+90 °C at max. 10 000 operating hours)     Temperature range (mobile)   -25+80 °C C     Varent Ø   max. 5 m (horizontal)     Traversing distance (C-track)	AWG	similar to AWG 24
Shore hardness (wire isolation)   70 ±5 D     Wire-Øincl. isolation   1.2 mm ±5%.     Color/numbering of wires   br, wh, rd, bi, pk, gr, ye, gn     Stranding combination   8 wires twisted around central filler     Shield   yes     min. 80%   Material (jacket)     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-0 (jacket)   7.0 mm ±5%.     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2     Nominal voltage   300 V AC     Test voltage   2000 V AC     Current Load capacity   to DIN VDE 0298-4     Temperature range (ixed)   -40+80 °C, (+90 °C at max. 10 000 operating hours)     Temperature range (mobile)   -25+40 °C, (+90 °C at max. 10 000 operating hours)     Bend radius (fixed)   5x outer Ø     Bend radius (moving)   10× outer Ø     No. of bending cycles (C-track) <td< td=""><td>Material (wire isolation)</td><td>РР</td></td<>	Material (wire isolation)	РР
Shore hardness (wire isolation)   70 ±5 D     Wire-Øincl. isolation   1.2 mm ±5%.     Color/numbering of wires   br, wh, rd, bi, pk, gr, ye, gn     Stranding combination   8 wires twisted around central filler     Shield   yes     min. 80%   Material (jacket)     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-0 (jacket)   7.0 mm ±5%.     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2     Nominal voltage   300 V AC     Test voltage   2000 V AC     Current Load capacity   to DIN VDE 0298-4     Temperature range (ixed)   -40+80 °C, (+90 °C at max. 10 000 operating hours)     Temperature range (mobile)   -25+40 °C, (+90 °C at max. 10 000 operating hours)     Bend radius (fixed)   5x outer Ø     Bend radius (moving)   10× outer Ø     No. of bending cycles (C-track) <td< td=""><td>Material property (wire isolation)</td><td>CFC-, halogen-, cadmium-, silicone- and lead-free</td></td<>	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Color/numbering of wires   br, wh, rd, bl, pk, gr, ye, gn     Stranding combination   8 wires twisted around central filler     Shield   yes     min. 80%   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-Q (jacket)   7.0 mm ±5%     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-2     Nominal voltage   300 V AC     Test voltage   2000 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 (moving)   10× outer Ø     Noet bending cycles (C-track)   max. 5 m (horizontal)     Travel speed (C-track)   max. 5 m/s <sup>2</sup> Torsion stress   +30°/m     No. of torsion cycles   max. 2 Mio. (25 °C)     Travel speed (C-track)	Shore hardness (wire isolation)	70 ±5 D
Stranding combination   8 wires twisted around central filler     Shield   yes     min. 80%     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-Q/ (jacket)   7.0 mm ±5%     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   fiame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2     Nominal voltage   300 V AC     Test voltage   2000 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 (inxed)   5 x outer Ø     No. of bending cycles (C-track)   max. 5 m(iorizontal)     Traversing distance (C-track)   max. 5 m(s² C)     Traversing distance (C-track)   max. 5 m/s²     No. of torsion cycles   max. 2 m/s²     No. of torsion cycles   max. 2 m/s²	Wire-Ø incl. isolation	1.2 mm ±5%
Stranding combination   8 wires twisted around central filler     Shield   yes     min. 80%     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-Q/ (jacket)   7.0 mm ±5%     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   fiame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2     Nominal voltage   300 V AC     Test voltage   2000 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 (inxed)   5 x outer Ø     No. of bending cycles (C-track)   max. 5 m(iorizontal)     Traversing distance (C-track)   max. 5 m(s² C)     Traversing distance (C-track)   max. 5 m/s²     No. of torsion cycles   max. 2 m/s²     No. of torsion cycles   max. 2 m/s²	Color/numbering of wires	br, wh, rd, bl, pk, gr, ye, gn
Shield   yes     min. 80%   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)   7.0 mm ±5%     Color (jacket)   gray     chemical resistance   good resistance to oil, gasoline and chemicals (EN 60811-404)     thermal resistance   filame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2     Nominal voltage   300 V AC     Current load capacity   to DIN VDE 0298-4     Tenperature range (fixed)   -40480 °C, (+90 °C at max. 10 000 operating hours)     Temperature range (mobile)   -25+80 °C, (+90 °C at max. 10 000 operating hours)     Temperature range (mobile)   5× outer Ø     Bend radius (moving)   10× outer Ø     No. of bending cycles (C-track)   max. 5 Mio. (25 °C)     Traversing distance (C-track)   max. 5 m/s <sup>2</sup> Torsion strees   ±30°/m     No. of torsion cycles   max. 2 Mio. (25 °C)     Torsion strees   ±30°/m     No. of torsion cycles   max. 5 m/s <sup>2</sup> Torsion strees   ±30°/m		
min. 80%.       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)     7.0 mm ±5%       Color (jacket)     gay       chemical resistance     good resistance to oil, gasoline and chemicals (EN 60811-404)       thermal resistance     flame retardant UL 1581 VWI / CSA FT1 / IEC 60332-1, IEC 60332-2-2       Nominal voltage     300 V AC       Test voltage     2000 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       No. of bending cycles (C-track)     max. 5 m(orizontal)       Traver sing distance (C-track)     max. 5 m/s <sup>2</sup> Torsion stress     ±30 °/m       No. of borsion cycles     max. 2 m/s <sup>2</sup> Torsion stress     ±30 °/m       No. of torsion cycles	·ī	
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)     7.0 mm ±5%       Color (jacket)     gray       chemical resistance     good resistance to oil, gasoline and chemicals (EN 60811-404)       thermal resistance     flame retardant UL 1581 VWI / CSA FT1 / IEC 60332-1, IEC 60332-2-2       Nominal voltage     300 V AC       Test voltage     2000 V AC       Current load capacity     to DIN VDE 0298-4       Temperature range (fixed)     -40+60 °C, (+90 °C at max. 10 000 operating hours)       Temperature range (fixed)     5× outer Ø       Bend radius (fixed)     5× outer Ø       Bend radius (moving)     10 × outer Ø       No. of bending cycles (C-track)     max. 5 m (orizontal)       Traver speed (C-track)     max. 5 m/s <sup>6</sup> Torsion stress     ±30 °/m       No. of torsion cycles     max. 2 Mio. (25 °C)       Travel speed     35 cycles/min       Jacket Color     gray		-
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)     7.0 mm ±5%       Color (jacket)     gray       chemical resistance     good resistance to oil, gasoline and chemicals (EN 60811-404)       thermal resistance     flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2       Nominal voltage     300 V AC       Test voltage     2000 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       No. of bending cycles (C-track)     max. 5 Mio. (25 °C)       Travel speed (C-track)     max. 5 m/s <sup>2</sup> Torsion stress     ±30 °/m       No. of torsion cycles     max. 2 Mio. (25 °C)       Torsion speed     35 cycles/min       Jacket Color     gray	Material (iacket)	
Shore hardness (jacket)90 ±5 AOuter-Ø (jacket)7.0 mm ±5%Color (jacket)graychemical resistancegood resistance to oil, gasoline and chemicals (EN 60811-404)thermal resistanceflame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2Nominal voltage300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
Color (jacket)graychemical resistancegood resistance to oil, gasoline and chemicals (EN 60811-404)thermal resistanceflame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1. IEC 60332-2-2Nominal voltage300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 mi (brizontal)Traversing distance (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray	Shore hardness (jacket)	
chemical resistancegood resistance to oil, gasoline and chemicals (EN 60811-404)thermal resistanceflame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2Nominal voltage300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 m (horizontal)Traversing distance (C-track)max. 3.3 m/sAcceleration (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray	Outer-Ø (jacket)	7.0 mm ±5%
thermal resistanceflame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2Nominal voltage300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray	Color (jacket)	gray
Nominal voltage300 V ACTest voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 5 m/seAcceleration (C-track)max. 5 m/seTorsion stress±30°/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray	chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Test voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray	thermal resistance	flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2
Test voltage2000 V ACCurrent load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
Current load capacityto DIN VDE 0298-4Temperature 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 ØBend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
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Bend radius (fixed) $5 \times outer Ø$ Bend radius (moving) $10 \times outer Ø$ No. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 3 m/sAcceleration (C-track)max. 5 m/s²Torsion stress $\pm 30 °/m$ No. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
Bend radius (moving)10× outer ØNo. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 3.3 m/sAcceleration (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
No. of bending cycles (C-track)max. 5 Mio. (25 °C)Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 3.3 m/sAcceleration (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
Traversing distance (C-track)max. 5 m (horizontal)Travel speed (C-track)max. 3.3 m/sAcceleration (C-track)max. 5 m/s²Torsion stress±30 °/mNo. of torsion cyclesmax. 2 Mio. (25 °C)Torsion speed35 cycles/minJacket Colorgray		
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Acceleration (C-track) max. 5 m/s <sup>2</sup> Torsion stress ±30 °/m   No. of torsion cycles max. 2 Mio. (25 °C)   Torsion speed 35 cycles/min   Jacket Color gray		
Torsion stress ±30 °/m   No. of torsion cycles max. 2 Mio. (25 °C)   Torsion speed 35 cycles/min   Jacket Color gray		
No. of torsion cycles max. 2 Mio. (25 °C)   Torsion speed 35 cycles/min   Jacket Color gray		
Torsion speed 35 cycles/min   Jacket Color gray		
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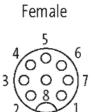
The information in this brochure has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 11/20



Operating voltage	max. 30 V AC/DC
Rated surge voltage	0.8 kV
Operating current per contact	max. 2 A
Locking of ports	Screw thread (M12×1 mm) recommended torque 0.6 Nm, self-securing
Compression gland	M12 (SW13)
Protection	IP65, IP66K, IP67 inserted and tightened (EN 60529)
Commercial data	
country of origin	CZ
customs tariff number	85444290
EAN	4048879320023
eClass	27279218
Packaging unit	1
Sketch	







Product may differ from Image