

stay connected

M12 male 90°/M12 female 90° shielded B-cod. Profibus

PUR 1x2xAWG24 shielded vt UL/CSA+dragchain 12m

Male 90° – female 90° M12, 4-pole – M12, 2-pole B-coded shielded

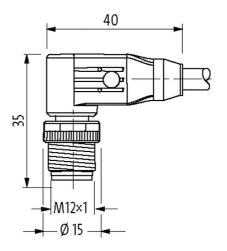
Plastic housings with good resistance against chemicals and oils.

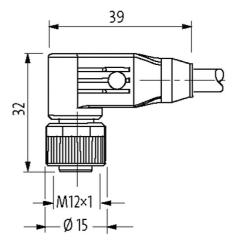
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

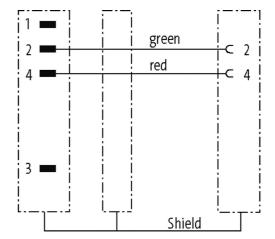
Illustration











Product may differ from Image

Approvals



stay connected

cCSAus



* only for products with UL/CSA approved cable

Approval (cable) UL (AWM-Style 20233), CE-conform Cable weight [g/m] 70,40 Material (wire) Cu wire, bare Resistor (core) max. 72 Ωkm (20 °C) Single wire Ø (core) 0.13 mm Construction (core) 19× 0.13 mm Diameter (core) 1× 2⋅ 2⋅ 0.25 mm² Material (wire isolation) ZE-PE Material (wire isolation) ZE-PE Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Miterial property (wire isolation) 2.55 mm ±5% Color/numbering of wires rd, gn Shiole Material (jacket) PUR Material (jacket) PUR Material (jacket) PUR Material property (jacket) 37 ± 3 Å Couter-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemicals (sistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 1500 V AC Temperature range (mobile) 20. +80 ° C Temperature range (mobile) 22. outer Ø Bend radius (fixed) max. 5 mios² Max. 5 mios Simise La Max. 5 mios Simise La Max. 5 mios Simise La Max. 5 mios Simise Max. 5 mios Simise La Max. 5 mios Simise Max. 5 mios Simise La Max. 5 mios Simise Max. 5 mios Simise Acceleration (C-track) max. 5 mios Simise Miorizontal) Traversing distance (C-track) max. 5 mios Simise Miorizontal)	Form	
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No. diameter of wires 1 + 2 + 0.25 mm² Wire isolation P (e (ed. gn) Cortack properties 5 Mio. Material (gacket) PUR (ULCSA) Coller 2 7,7 mm ±5% Bend radius (moving) 12 e. usuar 9 Tomperature range (moving) 4-0+80 °C Temperature range (mobile) -20+80 °C Temperature range (mobile) -2080 °C Cable identification 841 Approval (cable) UL (ANYM Style 20233), CE conform Cable identification -20+20 °C Salise view 0 (core) -20.3 mm Todate (core) -20+80 °C Temperature range (foode) -20+80 °C		
Wire soldston PE (vd. gn) C-track properties 5 Mio. Material (jacket) PLR (UUCSA) Outer Ø 7.7 mm ±5% Bend radius (moving) 12× outer Ø Temperature range (mobile) 490480 °C Cable identification 841 Approval (cable) UL (AWM-Style 20233), CE-conform Cable identification 841 Approval (cable) UL (AWM-Style 20233), CE-conform Cable identification 841 Resident (core) UL (AWM-Style 20233), CE-conform Cable weight (g/m) 70.40 Material (wire) Cu wire, bare Resident (core) max 27 Q Mm (20 °C) Single wire Ø (core) 0.13 mm Construction (core) 19× 0.13 mm Diameter (core) 12× 2.05 mm² AWG similar to AWG 24 Material property (wire isolation) ZE-PE Material property (wire isolation) CC-C, cadmium, ellicone- and lead-free Strore hardness (wire isolation) 2.25 mm ±5% Colorinumbering of wires r.1, ye Shield <td></td> <td>4.0.005</td>		4.0.005
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Bend radius (moving)		
Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Cable identification 841 Approval (cable) UL (AWM Style 20233), CE-conform Cable weight [g/m] 70.40 Material (wire) Cu wire, bare Resistor (core) max. 72 ΩRm (20 °C) Single wire Ø (core) 0.13 mm Construction (core) 1 y ≥ 0.2 g mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material (wire isolation) ZE-PE Shore hardness (wire isolation) 0.69.3 D Wire Ø Incl. isolation 2.55 mm ±5% Color/numbering of wires rd, gn Shield yes Material (pocket) PUR Material (pocket) CPC-, cadmium., silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant chomical resistances (gacket) Approach (gacket) PUR Material (pocket) 7.7 mm ±5% Color (gacket) violet Color (gacket) violet Color (gacket) violet		
Temperature range (mobile)		
Cable identification 841 Approval (cable) UL (AWM-Style 20233), CE-conform Cable weight (gm) 70,40 Material (wire) Cu wire, bare Resistor (core) max. 72 \(\Omega\) ARm (20 °C) Single wire Ø (core) 0.13 mm Construction (core) 19 × 0.13 mm Diameter (core) 1 × 2 × 0.25 mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 2.55 mm ±5% Colorbumbering of wires rd, gn Shield yes Material (jacker) PUR Material (jacker) P.3 A Color (jacker) r.7 m ±5% Color (jacker) violet		
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Cable weight [g/m] 70,40 Material (wire) Cu wire, bare Resistor (core) max. 72 Ωkm (20 °C) Single wire Ø (core) 0.13 mm Construction (core) 19 × 0.13 mm Diameter (core) 1 × 2 · 0.25 mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±3 D Wire-Ø Incl. isolation 2.55 mm ±5% Color/immbering of wires rd, gn Shield yes min. 85% min. 85% Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ±3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) 7.7 mm ±5% Color (jacket) violet shemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1	Cable identification	
Material (wire) Cu wire, bare Resistor (core) max. 72 Ωkm (20 °C) Single wire Ø (core) 0.13 mm Diameter (core) 1 x 2 x 0.25 mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ± 3 D Wire-Ø incl. isolation 2.55 mm ±5% Color/humbering of wires rd, gn Shield yes min. 85% Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ± 3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature ran	Approval (cable)	UL (AWM-Style 20233), CE-conform
Resistor (core) max. 72 Ωkm (20 °C) Single wire Ø (core) 0.13 mm Construction (core) 19 v. 0.13 mm Diameter (core) 1 × 2 v. 0.25 mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ± 3 D Wire-Ø Incl. isolation 2.55 mm ±5% Color/numbering of wires rd, gn Shield yes min. 85% PUR Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ± 3 A Outer Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (mobile) -20+60 °C	Cable weight [g/m]	70,40
Single wire Ø (core) 0.13 mm Construction (core) 19 × 0.13 mm Diameter (core) 1 × 2 × 0.25 mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ± 3 D Wire-Ø incl. isolation 2.55 mm ±5% Color/numbering of wires rd, gn Shield yes min. 85% min. 85% Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, malt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ± 3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VWI / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40480 °C Temperature range (mobile) -20460 °C	Material (wire)	
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Diameter (core) 1 x 2 x 0.25 mm² AWG similar to AWG 24 Material (wire isolation) ZE-PE Material property (wire isolation) 60 ±3 D Wire-Ø incl. Isolation 2.55 mm ±5% Color/numbering of wires rd. gn Shield yes min. 85% min. 85% Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ±3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) 40+80 °C Bend radius (fixed) 7.5 outer Ø Bend radius (moving) 12× outer Ø Bend radius (moving) 12× outer Ø Bend radius (moving) 12× outer Ø Bend radius (moving)	Single wire Ø (core)	0.13 mm
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Material (wire isolation) ZE-PE Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±3 D Wire-Ø incl. isolation 2.55 mm ±5% Color/numbering of wires rd, gn Shield yes min. 85% Material (jacket) PUR Material (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ±3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) 40+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (fixed) 7.5× outer Ø No. of bending cycles (C-track) max. 5 m (horizontal) Traversing distance (C-track) max. 5 m/s² Jacket Color violet	Diameter (core)	1× 2× 0.25 mm ²
Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±3 D Wire-Ø incl. isolation 2.55 mm ±5% Color/numbering of wires rd, gn Shield yes Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ±3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance fiame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× outer Ø No. of bending cycles (C-track) max. 5 m (horizontal) Traversing distance (C-track) max. 5 m/s² Jacket Color violet	AWG	similar to AWG 24
Shore hardness (wire isolation) 60 ±3 D Wire-Ø incl. isolation 2.55 mm ±5% Color/numbering of wires rd. gn Shield yes Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ±3 A Color (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m/s² Jacket Color wiolet	Material (wire isolation)	ZE-PE
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Color/numbering of wires rd, gn Shield yes min. 85% Material (jacket) PUR Material property (jacket) CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant Shore hardness (jacket) 87 ± 3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) 40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (borizontal) Traver speed (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Shore hardness (wire isolation)	60 ±3 D
Shield yes min. 85%	Wire-Ø incl. isolation	2.55 mm ±5%
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Shore hardness (jacket) 87 ±3 A Outer-Ø (jacket) 7.7 mm ±5% Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Material (jacket)	PUR
Outer-Ø (jacket) Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× outer Ø No. of bending cycles (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 5 m/s² Acceleration (C-track) max. 5 m/s² Jacket Color violet	Material property (jacket)	CFC-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant
Color (jacket) violet chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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. 5 m/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Shore hardness (jacket)	87 ±3 A
chemical resistance good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) wiolet	Outer-Ø (jacket)	7.7 mm ±5%
thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) wax. 5 m/s² Jacket Color violet	Color (jacket)	violet
Nominal voltage 300 V Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	chemical resistance	good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B)
Test voltage 1500 V AC Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	thermal resistance	flame retardant UL 1581 VW1 / CSA FT1
Temperature range (fixed) -40+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Nominal voltage	300 V
Temperature range (mobile) -20+60 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Test voltage	1500 V AC
Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Temperature range (fixed)	-40+80 °C
Bend radius (moving) 12× 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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Temperature range (mobile)	-20+60 °C
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/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Bend radius (fixed)	7.5× outer Ø
Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	Bend radius (moving)	12× outer Ø
Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Jacket Color violet	No. of bending cycles (C-track)	max. 5 Mio. (25 °C)
Acceleration (C-track) max. 5 m/s ² Jacket Color violet	Traversing distance (C-track)	max. 5 m (horizontal)
Jacket Color violet	Travel speed (C-track)	max. 3 m/s
	Acceleration (C-track)	max. 5 m/s²
Technical Data	Jacket Color	violet
	Technical Data	



stay connected

	personal Contraction (Contraction Contraction)
Operating voltage	max. 60 V AC/DC
Operating voltage (only UL listed)	30 V AC/DC
Rated surge voltage	1.5 kV
Operating current per contact	max. 4 A
No. of poles	M12, 4-pole – M12, 2-pole
Material group	IEC 60664-1, category I
Coding	B-coded
LED display	no
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)
Material	PUR
Locking material	Zinc die casting, matte nickel plated
suitable for corrugated tube (internal Ø)	without
General data	
Standards	DIN EN 61076-2-101 (M12)
Mounting method	inserted, tightened
Material (contact)	Copper alloy
Material (contact surface)	Au
Material (gasket)	FKM
Pollution Degree	3
Temperature range	-25+85 °C, depending on cable quality
Commercial data	
country of origin	DE
customs tariff number	85444290
EAN	4048879530675
eClass	27061801
Packaging unit	1