

& B

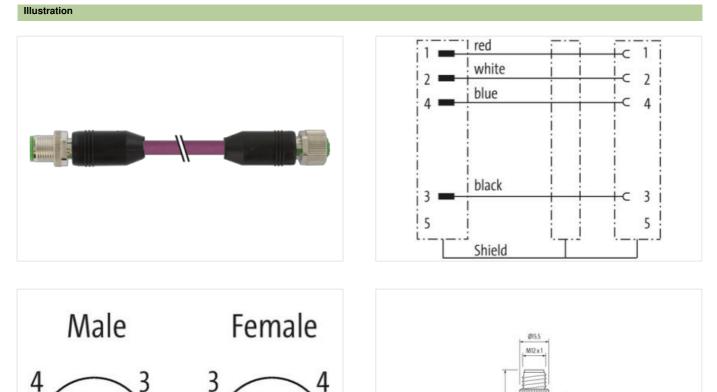
53

M12 male 0° / M12 female 0° B-cod. shielded

PUR AWG24+22 shielded vt UL/CSA+drag ch. 0.2m

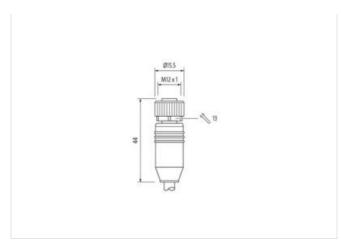
Male straight – female straight M12 – M12, 4-pole B-coded shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product



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Product may differ from Image



Cable length	0,2 m	
Side 1		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	
Thread	M12 x 1	
Coding	В	
Material	PUR	
No. of poles	4	
Width across flats	SW13	
Side 2		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	
Thread	M12 x 1	
Coding	В	
Material	PUR	
No. of poles	4	
Commercial data		
ECLASS-6.0	27061801	
ECLASS-6.1	27060307	
ECLASS-7.0	27060307	
ECLASS-8.0	27060307	
ECLASS-9.0	27060307	
ECLASS-10.1	27060307	
ECLASS-11.1	27060307	
ECLASS-12.0	27060307	
ETIM-5.0	EC001855	
customs tariff number	85444290	
GTIN	4048879141857	
Packaging unit	1	
Electrical data Supply		

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Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
	<u></u>
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
Cable identification	803
Jacket Color	violet
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Banding	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Cable weigth	63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PE
Amount wires	2

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Outer dimension insulation 4.5 %. Shore handness wire insulation 8.4 ± 5 Shore D Inverse insulation Red ± 4 AVG Conductor roresearction (vire) 24 AVG Data Compact on the second wire (the second w	Outer diameter insulation	2,1 mm
Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 19 Dimater of single wires 24 AWG Conductor cross-section (wire) 24 AWG Mariait conductor wire Data Material conductor wire Data Material conductor wire Data Material conductor wire Data Culer diameter wire insulation (Data) 1.5 mm Taterance cutter diameter wire insulation (Data) 1604 (rec, CFC free, halogen-free Amount wires (Data) 2 Amount wires (Data) 2 Amount wires (Data) 2 Conductor wires (Data) 22 AWG Conductor wire (Data) 20 AWG Content conductor wire (Data) 50 V Current load capacity min. Wire (Data) 50 A Current load cap	Outer diameter tolerance core insulation	±5%
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Dameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Daria wire (cross section) 22 AWG Material conductor wire copper stranded wire, finned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Toderance outer diameter wire insulation (Data) 16 Impredient freeness wire insulation (Data) 18 Diameter of aingle wires (Data) 22 Anount strands wire (Data) 22 AWG Conductor crosssection wire (Oata) 20 WG Material conductor wire (Data) 20 WG Conductor crosssection wire (Oata) 20 WG Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity min. wire 4.5 A Current load capacity min. wire 78 Q/km Electrical function wire (Data) Powe	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor consistencian (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire Opala Electrical function wire Data Material conductor wire insulation (Data) PE Conder diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.2 MMG Amount wires (Data) 2 Amount wires (Data) 2 Conductor crossection wire (Data) 22 AWG Conductor or sold wires (Data) 22 AWG Material conductor wire (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Current load capacity (standard) 10 DN VDE 0289-4 Current load capacity (min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. wire 6 A Electrical function wire (data) Power Characteristic impedance 120 Q ± 10 % @ 1 MHz Electrical function wire (data) Power	Amount strands (wire)	19
Drain wire (cross-section) 22 AWG Material conductor wire copper standed wire, tinned Electrical function wire Data Material diver insulation (Data) PE Outer diverse insulation (Data) 1,5 mm Toerance outer diverse insulation (Data) 1,5 mm Toerance outer diverse insulation (Data) 1,6 mm Toerance outer diverse insulation (Data) 19 Dameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Conductor vires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Conductor vires (Data) Copper standed wire, tinned Electrical function wire (data) Power Traversing distance (C-track) 5 m Normal vidage AC max. 300 V Current load capacity (standardr) to DIN VDE 0288-4 Current load capacity (standardr) to DIN VDE 0288-4 Current load capacity (standardr) Dower Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance location wire (Data) Power Characteristic impedance <	Diameter of single wires	24 AWG
Material conductor wire Copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 2 Amount strands wire (Data) 2 Amount strands wire (Data) 2 Dameter of single wires (Data) 22 AWG Conductor crossescetion wire (Data) copper stranded wire, tinned Electrical function wire (Data) Power Traversing distance (C-track) 5 m Nominal voltage AC max. 300 V Current load capacity testandurd to DI V VDE 0286-4 Current load capacity testandurd to DI V VDE 0286-4 Current load capacity min. wire 4.5 A Electrical function wire (data) Power Characteristic impedance 120 Q ± 10 % @ 1 MHz Electrical resistance coaling wire (Data) 54 Okm	Conductor crosssection (wire)	24 AWG
Electrical function wire Data Material wire insulation (Data) PE Ouler diameter wire insulation (data) 1.5 mm Tolerance outer diameter wire insulation (data) 1.5 mm Tolerance outer diameter wire insulation (Data) lead-free, CFC-free, halogen-free Armount strands wire (Data) 2 Armount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor rossection wire (Data) copper stranded wire, finned Electrical function wire (data) copper stranded wire, finned Electrical function wire (data) Power Traversing distance (C-track) 5 m Nominal voltage AC max. 300 V Current load capacity min. wire 4.5 A Current load capacity min. wire 0.5 DIN VDE 0298.4 Current load capacity min. wire Data Electrical function wire (data) Power Carrent load capacity min. wire (Data) 5.0 DArm AC wirestand voltage (wire - wire) 2 KW @ 6.0 s Electrical resistance costant wire 78 DArm Electrical resistance costant wire 74 OArm	Drain wire (cross-section)	22 AWG
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Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Traversing distance (C-rack) 5 m Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. Wire (Data) 6 A Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ωkm Electrical resistance line constant wire 78 Ωkm Electrical resistance line constant wire 78 Ωkm Electrical resistance line constant wire 2 kV @ 60 s Electrical resistance line constant wire 2 kV @ 60 s Electrical resistance (wire - shield) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature max. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C <	Amount wires (Data)	2
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Characteristic impedance $120 \Omega \pm 10 \% \oplus 1 MHz$ Electrical resistance line constant wire $78 \Omega/km$ Electrical resistance coating wire (Data) $54 \Omega/km$ AC withstand voltage (wire - wire) $2 kV \oplus 60 s$ Electric capacitance $40000 pF/km$ AC withstand voltage (wire - shield) $2 kV \oplus 60 s$ Min. operating temperature (static) $-40 \ ^{\circ}C$ Max. operating temperature (static) $-40 \ ^{\circ}C$ Max. operating temperature (fixed) $80 \ ^{\circ}C$ Operating temperature min. (dynamic) $-30 \ ^{\circ}C$ Operating temperature max. (dynamic) $70 \ ^{\circ}C$ Flame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed) $6 \times Outer diameter$ Bending radius (dynamic) $10 \times Outer diameter$ Travel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress $\pm 30 \ ^{\circ}m$		Data
Electrical resistance line constant wire 78 Ω/km Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (dynamic) 10 × Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Electrical function wire (data)	Power
Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (ixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Electrical resistance line constant wire	78 Ω/km
Electric capacitance40000 pF/kmAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (fixed)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electric capacitance	40000 pF/km
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (dynamic)10 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Max. operating temperature (fixed)	80 °C
Flame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature min. (dynamic)	-30 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Bending radius (installation)	x Outer diameter
Travel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (fixed)	6 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	1 Mio.
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/m
	Torsion speed	35 cycles/min

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-16