

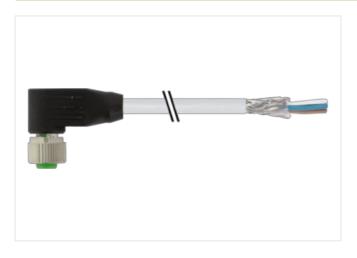
## M12 female 90° A-cod. with cable shielded

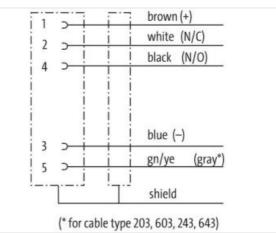
PUR 5x0.34 shielded gy UL/CSA+drag ch. 20m

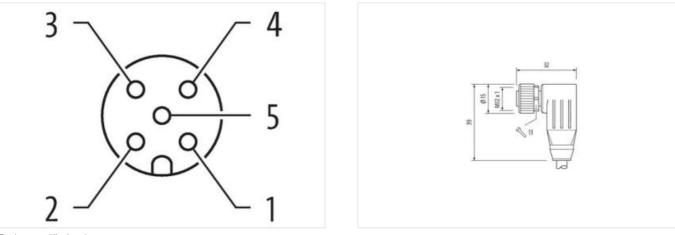
Female 90° M12, 5-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

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: 2024-04-30

20 m

0,6 Nm



Caching contant.op/i platedConting contant.M12Trendy construction formM12 × 1ContingAContingAMaterialPultMaterialPultNorg order SociesSWith access fatsSW13Orger ord protection (FINE COSCS)IPOS, IPOR, IPO7Side 2OrumConting contant.gold platedConting contant.gold platedConting contant.gold platedContant contant.27278718ECLASS 6.027278718ECLASS 7.027787618ECLASS 8.027060311ECLASS 8.027060311ECLASS 8.027060311ECLASS 8.027060311ECLASS 8.027060311ECLASS 8.027060311ECLASS 9.027060311ECLASS 9.015142Packaging und 11514289Coll 9.11514289Coll 9.11514289Coll 9.11514289Coll 9.130 VOperating vortage AC (UL-lated)30 V <t< th=""><th>Mounting method</th><th>inserted, screwed</th></t<>	Mounting method	inserted, screwed
Thread     M12 x 1       Coding     A       Coding     A       Matural contact     Coppor alloy       Matural contact     Coppor alloy       Matural contact     PUR       No. of poles     5       With accoss fluts     SW13       Degreu of protection (EN EC 6029)     IP65. IP66K. IP67       Stds 2     Stropping ingrith (jacket)     20 mm       Coating contact     gold plated     Commercial data       ECLASS 6.0     22729218     ECLASS 7.0     22729218       ECLASS 7.0     227090311     ECLASS 7.0     22700311       ECLASS 7.0     22700311     ECLASS 7.0     2000000       Coparating voltage AC max.     60 V     Operating voltage AC max.	Coating contact	gold plated
CadingAMaterial contactCoppor alloryMaterialPURNo. of poles5Widt across fainsSW13Degree of protection (EN EC 60529)IP65, IP66K, IP67StoieUStoigning length (acket)20 mmContencial datagold platedContencial data27279218ECLASS-6.027279218ECLASS-6.127279218ECLASS-6.127279218ECLASS-6.027279218ECLASS-6.027279218ECLASS-6.127279218ECLASS-6.127279218ECLASS-6.127279218ECLASS-6.027279218ECLASS-6.027279218ECLASS-6.027279218ECLASS-6.127060311ECLASS-7.027279218ECLASS-8.027060311ECLASS-8.027070031ECLASS-8.0 <td>Family construction form</td> <td>M12</td>	Family construction form	M12
Material     Copper alloy       Material     PUR       No. of poins     5       With access flus     SW13       Degree of polection (EN EC 60259)     IP65, IP66K, IP67       Side 2     Side 2       Side 1     Quanty contact       Contanty contact     gold plated       Commercial data     Contact on the contact on t	Thread	M12 x 1
Material     PUR       No: of poles     S       Woit across flats     SW13       Degree of protection (EN EC 60520)     PE65, (P667       Stripping length (acket)     20 mm       Conting contract     gold platted       Commercial data     gold platted       ECLASS 6.0     27279218       ECLASS 6.1     27279218       ECLASS 6.0     27279218       ECLASS 7.0     27200311       ECLASS 7.1     27000311       ECLASS 7.1     27000311       ECLASS 7.0     ECO01855       Construst flambare     8544200       GTIM     404679515542       Packaging unit     1       Exercical ans [supp)     Comarcing voltage AC (UL-lated)       Operating voltage AC (UL-lated)     30 V       Commercing voltage AC (UL-lated)     30 V       Operating voltage AC (UL-lated)     30 V       Comarcing voltage QC (UL-lated)     30 V	Coding	A
No. dr pories     S       Wordt across Ruls     SW13       Degree of protection (EN IEC 60529)     IPSS, IP68(, IP67       Side 2	Material contact	Copper alloy
Widh aross flats     SW13       Dagree of protection (EN IEG 60528)     IP65, IP667       Side 2     Stripping length (jackot)     20 mm       Conting contract     gold plated     Conting contract     gold plated       ECLASS 6.0     27278218     ECLASS 5.6.1     27278218       ECLASS 5.0     27278218     ECLASS 5.0     27060311       ECLASS 5.0     27060311     ECLASS 5.0     ECLASS 5.0       ECLASS 5.0     27060311     ECHASS 5.0     ECHASS 5.0       ECLASS 5.0     27060311     ECHASS 5.0     ECHASS 5.0       ECLASS 5.0     27060315 <td< td=""><td>Material</td><td>PUR</td></td<>	Material	PUR
Degree of protection (EN IEC 80529)     IP68, IP60K, IP67       Side 2     Side protection (EN IEC 80529)     Om       Contrag contral     gold plated     Contrag contral     Gold plated       Contrag contral     gold plated     Contrag contral     Contral     Contrad contral     Contren contrad contrad contrad contrad contrad contra <td>No. of poles</td> <td>5</td>	No. of poles	5
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Coaling contact     gold plated       Commercial data	Side 2	
Coaling contact     gold plated       Commercial data	Stripping length (jacket)	20 mm
ECLASS-6.0     27278218       ECLASS-7.0     27279218       ECLASS-7.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0     27080311       ECLASS-8.0     27080311       ECLASS-1.1     27060311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       ECLASS-11     27060311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       ECLASS-11     27060311       ECLASS-12.0     27080311       ECLASS-11.1     27060311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       ECLASS-11.1     27060311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       ECLASS-12.0     27080311       Electrical dats Supping and A (UL-Ising)     30 V       Operating volage AC (UL-Ising)     30 V       Current operating perostnat max.     4 A		gold plated
ECLASS 6.1     27279218       ECLASS 7.0     27279218       ECLASS 6.0     27279218       ECLASS 6.0     27279218       ECLASS 6.0     27279218       ECLASS 6.0     27060311       ECLASS 6.1.1     27060311       ECLASS 1.1.1     27060311       ECLASS 1.1.1     27060311       ECLASS 1.2.0     27060311       ECLASS 1.1.1     27060311       ECLASS 1.2.0     27060311       Electrical data Status     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage CU (UL-listed)     30 V       Operating voltage CU (UL-listed)     30 V       Operating voltage CU (UL-listed)     30 V       Operating volta	Commercial data	
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ECLASS-7.0     27278218       ECLASS-8.0     27278218       ECLASS-8.0     27060311       ECLASS-10.1     27060311       ECLASS-17.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879515542       Packaging unit     1       Electrical data   Supply        Operating voltage AC (UL-listed)     30 V       Defector     Status indication LED     no       Installation I Connection     Status indication LED     No <		
ECLASS 4.0     27278218       ECLASS 9.0     27060311       ECLASS 10.1     27060311       ECLASS 11.1     27060311       ECLASS 12.0     27060311       ECLASS 13.0     ECON1885       customs taiff number     85444290       GTN     4048879515542       Packaging unt     1       Electrical data   Supply     Operating Voltage AC max.       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics     E       Stripping length (jacket)     20 mm       Mounting set     M12 x 1       Device protection   Electrical     20 mm <t< td=""><td></td><td></td></t<>		
ECLASS-9.0     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-13.0     EC001855       customs tariff number     85444290       GTIN     404879515542       Packaging unit     1       Electrical dta I Supply		
ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     EC001855       oustoms tariff number     85444290       GTIN     404887951542       Packaging unit     1       Electrical data   Supply        Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Digeostics        Status indication LED     no       Installation I Connection        Stripping length (iackeh)     20 mm       Mounting set		
ECLASS-11.1     27060311       ECLASS-12.0     27060311       ETIM-S.0     EC001855       castoms taff number     85444290       GTIN     4048879515542       Packaging unit     1       Electrical data   Supply        Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Diagnostics        Status indication LED     no       Installation   Connection        Stripping length (jacket)     20 mm       Mounting set     M12 x 1       Device protection   Electrical        Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV <td></td> <td></td>		
ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879515542       Packaging unit     1       Etectical data   Supply     Derating voltage AC max.       Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics     Status Indication LED       Straipping length (jacket)     20 mm       Mounting set     M12 x 1       Device protection   Electrical     M12 x 1       Device protection   Electrical     A       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664-1)     1       Matchical data     Contour for corrugated hose       Contour for corrugated hose     without       Mechanical data     Mounting       Contour for corrugated hose     without       Mechanical data   Material data     Coding of fitting <t< td=""><td></td><td></td></t<>		
customs tarlif number     85444290       GTIN     4048879515542       Packaging unit     1       Electrical data   Supply        Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage DC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics        Status indication LED     no       Installation   Connection        Stripping length (lacket)     20 mm       Mounting set     M12 x 1       Device protection   Electrical        Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material gasket     KW       Costing locking     without       Mechanical data        Coating locking     Nickeled       Coating of fitting     nickel plated       Material gasket     FKM       Lockin	ECLASS-12.0	27060311
GTIN     4048879515542       Packaging unit     1       Electical data   Supply        Operating voltage AC max.     60 V       Operating voltage AC (max.     60 V       Operating voltage AC (lu-listed)     30 V       Operating voltage AC (lu-listed)     30 V       Operating voltage AC (lu-listed)     30 V       Current operating por contact max.     4 A       Diagnostics        Status indication LED     no       Installation   Connection        Stripping length (jacket)     20 mm       Mounting set     M12 x 1       Device protection   Electrical        Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664-1)     I       Mechanical data        Contour for corrugated hose     without       Mechanical data   Material gaset     KKM       Coating locking     Nickeled       Coating locking     Nickeled       Coating of fitting     nickel plated<	ETIM-5.0	EC001855
Packaging unit 1   Electrical data   Supply   Operating voltage AC max. 60 V   Operating voltage AC 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 Image: Contact max.   Status indication LED no   Installation   Connection Image: Contact max.   Stripping length (jacket) 20 mm   Mounting set M12 x 1   Deveree 3   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (IEC 60664-1) 1   Mechanical data Image: Contact max.   Contour for corrugated hose without   Mechanical data Image: Contact max.   Coating of fitting Nickeled   Cox	customs tariff number	85444290
Electrical data   Supply   Operating voltage AC max. 60 V   Operating voltage AC (UL-listed) 30 V   Operating voltage AC (UL-listed) 30 V   Operating voltage DC (UL-listed) 30 V   Operating voltage DC (UL-listed) 30 V   Current operating per contact max. 4 A   Diagnostics Image: Contact max   Status indication LED no   Installation   Connection Image: Connection   Stripping length (jacket) 20 mm   Mounting set M12 x 1   Devere protection   Electrical   Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (IEC 60664-1) I   I Mechanical data   Coating of fitting Nickeled   Coating of fitting nickel plated   Material gooking Nickeled   Coating of fitting nickel plated   Material screw connection Zinc die-casting	GTIN	4048879515542
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Status indication LED   no     Installation   Connection     Stripping length (jacket)   20 mm     Mounting set   M12 x 1     Device protection   Electrical     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   1     Mechanical data   vithout     Contour for corrugated hose   without     Mechanical data   Material data   Vickeled     Coating locking   Nickeled     Coating sket   FKM     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting	Current operating per contact max.	4 A
Installation   Connection     Stripping length (jacket)   20 mm     Mounting set   M12 x 1     Device protection   Electrical     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   1     Mechanical data   V     Contour for corrugated hose   without     Mechanical data   Material data   V     Coating locking   Nickeled     Coating of fitting   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting	Diagnostics	
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Mounting set M12 x 1   Device protection   Electrical   Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (IEC 60664-1) 1   Mechanical data without   Contour for corrugated hose without   Mechanical data   Material data V   Coating locking Nickeled   Coating of fitting nickel plated   Material gasket FKM   Locking material Zinc die-casting   Material screw connection Zinc die-casting	Stripping length (jacket)	20 mm
Device protection   Electrical     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   1     Mechanical data   vithout     Contour for corrugated hose   without     Mechanical data   Material data   vithout     Coating locking   Nickeled     Coating of fitting   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting		M12 x 1
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Locking material Zinc die-casting   Material screw connection Zinc die-casting		
Material screw connection Zinc die-casting		
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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: 2024-04-30



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	242
Cable Type	3
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Cable weigth	57,2 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)	5,6 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	5
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
Nominal voltage power AC max.	300 V
AC withstand voltage power (wire - shield)	2 kV @ 60 s
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation

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Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 30 °/m

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