

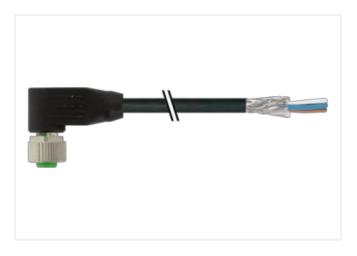
## M12 female 90° A-cod. with cable shielded

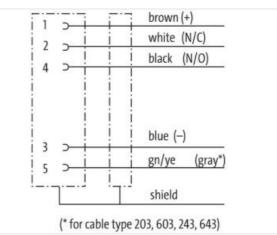
PVC 5x0.34 shielded bk UL/CSA 25m

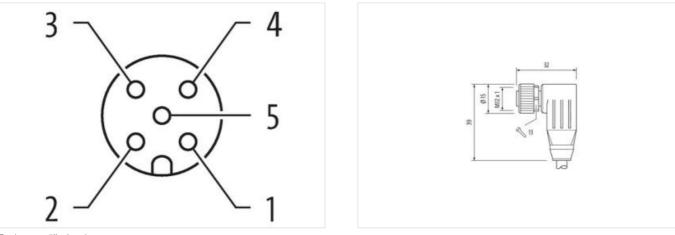
Female 90° M12, 5-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## 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: 2024-05-17

25 m

0,6 Nm



Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	gold plated
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879670555
Packaging unit	1
Electrical data   Supply	
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
Installation   Connection	
	20 mm
Stripping length (jacket) Mounting set	20 mm M12 x 1
	W12 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)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting

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	ty / suitable measures from mechanical loads, e.g. by the usage of cable ties. permissible bending radii when laying cables, as the IP protection class can be a bending forces.
Operating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable qualImportant installation notesNote on strain reliefNote on bending radiusAttention: Observe the pendangered by excessiveConformityProduct standardProduct standardDIN EN 61076-2-101 (MInstallation   CableCable identificationCable identification603Cable Type1Jacket ColorblackType of CertificatecURusAmount stranding1Stranding5 wires around Core filleCable shielding (type)copper braid, tinnedCable weigth68.2 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free,Outer diameter (loket)5,6 mmTolerance outer diameter (sheath) $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Outer diameter tolerance core insulation $\pm 5 \%$ Material properties wire insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Outer diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Outer diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Shore hardne	y suitable measures from mechanical loads, e.g. by the usage of cable ties. permissible bending radii when laying cables, as the IP protection class can be bending forces.
Operating temperature max.   85 °C     Additional condition temperature range   depending on cable qual     Important installation notes   Note on strain relief     Note on strain relief   Protect the connectors b     Note on bending radius   Attention: Observe the iendangered by excessive     Conformity   Product standard   DIN EN 61076-2-101 (M     Installation   Cable   Cable identification   603     Cable identification   603   Cable identification   603     Cable Color   black   Type of Certificate   cURus     Amount stranding   1   Stranding   5 wires around Core fille     Cable shielding (type)   copper braid, tinned   Cable shielding (type)   copper braid, tinned     Cable shielding (type)   copper braid, tinned   Cable shielding (type)   copper braid, tinned     Cable shielding (type)   copper braid, tinned   Cable shielding (type)   copper braid, tinned     Cable shielding (type)   copper braid, tinned   Cable shielding (type)   copper braid, tinned     Cable shielding (type)   copper braid, tinned   Cable shielding (type)   copper braid, tinned     Cable weigth   68.2 g/m   Materia	y suitable measures from mechanical loads, e.g. by the usage of cable ties. permissible bending radii when laying cables, as the IP protection class can be bending forces.
Additional condition temperature range     depending on cable qual       Important installation notes     Protect the connectors b       Note on strain relief     Protect the connectors b       Note on bending radius     Attention: Observe the endangered by excessive       Conformity     Endangered by excessive       Product standard     DIN EN 61076-2-101 (M       Installation   Cable     603       Cable identification     603       Cable I Type     1       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     5 wires around Core fille       Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     80 %       Banding     Fleece, Foil       Filler     yes       wire arrangement     brown, black, blue, white       Cable weigth     68,2 g/m       Material jacket     PVC       Shore hardness jacket     85 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free,       Outer-diameter (jacket)     5,6 mm       Tolerance ou	y suitable measures from mechanical loads, e.g. by the usage of cable ties. permissible bending radii when laying cables, as the IP protection class can be bending forces.
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Note on strain relief     Protect the connectors b       Note on bending radius     Attention: Observe the endangered by excessive       Conformity     Product standard     DIN EN 61076-2-101 (M       Installation   Cable     Cable identification     603       Cable identification     603     Cable Type       1     Jacket Color     black       Type of Certificate     cURus     Amount stranding       Amount stranding     1     Stranding       Stranding     5 wires around Core fille     Cable shielding (type)       Cable shielding (type)     copper braid, tinned     Cable shielding (coverage)       Banding     Fleece, Foil     Filler       Filler     yes     wire arrangement     brown, black, blue, white       Cable weigth     68,2 g/m     Material jacket     PVC       Shore hardness jacket     F5 ± 5 Shore A     Freedom from ingredients (jacket)     lead-free, cadmium-free,       Outer-diameter (jacket)     5,6 mm     Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     1,25 mm     Outer diameter tolerance core insulation     1,25 mm       Outer	permissible bending radii when laying cables, as the IP protection class can be bending forces.
Note on bending radius     Attention: Observe the endangered by excessive endangered by excessive       Conformity     Product standard     DIN EN 61076-2-101 (M       Installation   Cable     Cable identification     603       Cable identification     603     Cable identification       Cable Type     1     Jacket Color     black       Type of Certificate     cURus     Type of Certificate     cURus       Amount stranding     1     Stranding     5 wires around Core fille       Cable shielding (type)     copper braid, tinned     Cable shielding (coverage)     80 %       Banding     Fleece, Foil     Filler     yes       wire arrangement     brown, black, blue, white     Cable weigth     68,2 g/m       Material jacket     PVC     Shore hardness jacket     85 ± 5 Shore A     Freedom from ingredients (jacket)     lead-free, cadmium-free,       Outer-diameter (jacket)     5,6 mm     Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PVC     Amount wires     5       Outer diameter tolerance core insulation     ± 5 %     Shore hardness wire insulation     good machinability	permissible bending radii when laying cables, as the IP protection class can be bending forces.
Note on bending radius     endangered by excessivies       Conformity     Product standard     DIN EN 61076-2-101 (M       Installation   Cable     Cable identification     603       Cable identification     603     Cable       Cable identification     603     Cable       Cable identification     603     Cable       Cable of Certificate     cURus     Amount stranding     1       Stranding     5 wires around Core fille     Cable shielding (type)     copper braid, tinned       Cable shielding (type)     copper braid, tinned     Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     80 %     Banding     Fleece, Foil     Filler     yes       Wire arrangement     brown, black, blue, white     Cable weigth     68.2 g/m     Material jacket     PVC       Shore hardness jacket     PS 5     Shore A     Freedom from ingredients (jacket)     lead-free, cadmium-free,       Outer diameter (jacket)     1,25 mm     Material wire insulation     45 ± 5 Shore D       Material wire insulation     45 ± 5 Shore D     Material properties wire insulation     god machinability <td>e bending forces.</td>	e bending forces.
Product standardDIN EN 61076-2-101 (MInstallation   CableCable identification $603$ Cable Type1Jacket ColorblackType of CertificatecURusAmount stranding1Stranding5 wires around Core filleCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, whiteCable weigth $68.2 g/m$ Material jacketPVCShore hardness jacket $85 \pm 5$ Shore AFreedom from ingredients (jacket)lead-free, cadmium-free,Outer-diameter (jacket) $5,6$ mmTolerance outer diameter (sheath) $\pm 5 \%$ Material wire insulationPVCAmount wires $5$ Outer diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $45 \pm 5$ Shore DMaterial properties wire insulation $good$ machinabilityIngredient freeness wire insulation $good$ machinabilityIngredient freeness wire insulation $ead$ -free, cadmium-free,Amount strands (wire)19Diameter of single wires $0,15 mm$ Conductor rorssection (wire) $0,34 mm^2$ Material conductor wireStranded copper wire, bacConductor type (wire)Strand class 5Nominal voltage AC max. $300 V$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity (min. wire $4,5 A$ <	
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Shore hardness jacket $85 \pm 5$ Shore AFreedom from ingredients (jacket)lead-free, cadmium-free,Outer-diameter (jacket) $5,6$ mmTolerance outer diameter (sheath) $\pm 5$ %Material wire insulationPVCAmount wires $5$ Outer diameter tolerance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Material properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free,Amount strands (wire)19Diameter of single wires $0,15$ mmConductor crosssection (wire) $0,34$ mm²Material conductor wireStranded copper wire, batConductor type (wire)Strand class 5Nominal voltage AC max. $300$ VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,5$ AElectrical resistance line constant wire $57 \Omega/km$ @ 20 °C	
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Outer-diameter (jacket) $5,6 \text{ mm}$ Tolerance outer diameter (sheath) $\pm 5 \%$ Material wire insulationPVCAmount wires $5$ Outer diameter insulation $1,25 \text{ mm}$ Outer diameter insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Material properties wire insulation $good$ machinabilityIngredient freeness wire insulation $good$ machinabilityIngredient freeness wire insulation $19$ Diameter of single wires $0,15 \text{ mm}$ Conductor crosssection (wire) $0,34 \text{ mm}^2$ Material conductor wireStranded copper wire, bacConductor type (wire)Strand class 5Nominal voltage AC max. $300 \text{ V}$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,5 \text{ A}$ Electrical resistance line constant wire $57 \Omega/km @ 20 °C$	
Tolerance outer diameter (sheath) $\pm 5 \%$ Material wire insulationPVCAmount wires5Outer diameter insulation1,25 mmOuter diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $45 \pm 5$ Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free,Amount strands (wire)19Diameter of single wires0,15 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, basConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,5 A$ Electrical resistance line constant wire $57 \Omega/km @ 20 °C$	CFC-free, silicone-free
Material wire insulationPVCAmount wires5Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free,Amount strands (wire)19Diameter of single wires0,15 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, batConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire57 Ω/km @ 20 °C	
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Outer diameter insulation1,25 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation $45 \pm 5$ Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free,Amount strands (wire)19Diameter of single wires0,15 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bacConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire57 $\Omega/km$ @ 20 °C	
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Shore hardness wire insulation   45 ± 5 Shore D     Material properties wire insulation   good machinability     Ingredient freeness wire insulation   lead-free, cadmium-free,     Amount strands (wire)   19     Diameter of single wires   0,15 mm     Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, base     Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     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	
Material properties wire insulation   good machinability     Ingredient freeness wire insulation   lead-free, cadmium-free,     Amount strands (wire)   19     Diameter of single wires   0,15 mm     Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, based conductor type (wire)     Strand class 5   Nominal voltage AC max.     Nourient 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	
Ingredient freeness wire insulation   lead-free, cadmium-free,     Amount strands (wire)   19     Diameter of single wires   0,15 mm     Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, base     Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     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	
Amount strands (wire)   19     Diameter of single wires   0,15 mm     Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, base     Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     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	
Diameter of single wires0,15 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, baseConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire57 Ω/km @ 20 °C	CFC-free, silicone-free
Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, based conductor type (wire)     Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     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	
Material conductor wire   Stranded copper wire, back     Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     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	
Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     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 AC max.   300 V     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	re
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	
Current load capacity min. wire 4,5 A   Electrical resistance line constant wire 57 Ω/km @ 20 °C	
Electrical resistance line constant wire 57 $\Omega$ /km @ 20 °C	
AC withstand voltage (wire - wire) 2 kV @ 60 s	
Power frequency withstand voltage (wire - 2 kV @ 60 s jacket)	
AC withstand voltage (wire - shield) 2 kV @ 60 s	
Min. operating temperature (static) -30 °C	
Max. operating temperature (fixed) 80 °C	
Operating temperature min. (dynamic) -5 °C	
Operating temperature max. (dynamic) 80 °C	
Operating temperature min. (dynamic) -5 °C	

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: 2024-05-17



UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	10 x Outer diameter

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