

## M12 female 90° A-cod. with cable shielded V2A

PUR 5x0.34 shielded gy UL/CSA+drag ch. 10m

Female 90° M12, 5-pole Stainless steel 1.4305 (V2A)

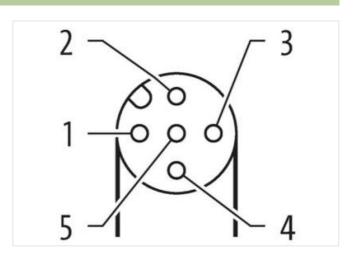
shielded

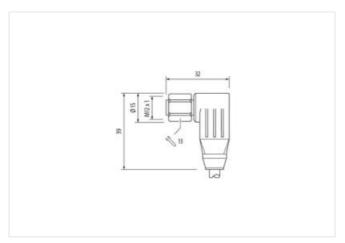
Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

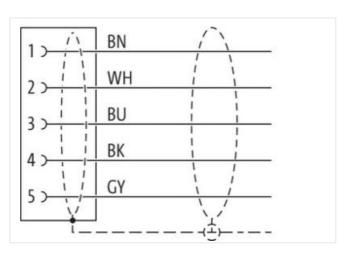
## **Link to Product**

## Illustration









Product may differ from Image





10 m Cable length

Side 1

Tightening torque 0,6 Nm



stay connected

Costing contact	Mounting method	inserted, screwed
Family construction form		· · · · · · · · · · · · · · · · · · ·
Thread         M12 x 1           Coding         A           Material confact         Copper alky           No. of poles         5           Width across fists         SW13           Degree of protection (EN IEC 60898)         IP65, IP66K, IP67           Side 2         Width across fists           Sing 2         Width across fists           Commercial data         gold plated           Commercial data         22729218           CLASS-R.0         22729218           CLASS-R.0         27272918           CLASS-R.0         27272918           CLASS-R.0         27060311           CLASS-R.1         27060311           CLASS-R.1		
Coding         A           Material contact         Coppor alloy           No. of poles         5           Width across flats         SW13           Commonstant (RN IEC 60529)         IPPS, IPBK, IPBY           Side 2           Simpoing length (lacker)         20 mm           Canting contact         dol plated           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         227279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27090311           ECLASS-9.0         27090311           ECLASS-9.0         27090311           ECLASS-1.1         27090311           ECLASS-1.1         27090311           ECLASS-9.0         2		
Meter al constact         Copper alloy           No. of poles         5           Witth a cross fistas         SW13           Degree of protection (ENIEC 60529)         IP65, IP66K, IP67           Sifting of protection (ENIEC 60529)         20 mm           Coating contact         gold plated           Commercial date         Commercial date           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27260311           ECLASS-9.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           CHAST-1.1         27060311           ECLASS-1.2.0         27060311           CHAST-2.0         27060311           CHAST-2.0         27060311           ECLASS-1.1         27060311           CHAST-2.0         27060311           CHAST-2.0         27060311           CHAST-2.0         27060311		
No. of poles         5           Width across flats         SW13           Degree of proteion (RNIEC 60529)         IPP5, P60K, IP67           Side 2         Simpring length (jackel)         20 mm           Coating contact         god plated           Commercial data         ECLASS-6.0         27279218           ECLASS-9.0         27279218         20 mm           ECLASS-9.0         27279218         20 mm           ECLASS-9.0         27060311         20 mm           ECLASS-9.1         27060311         20 mm           ECLASS-1.1         27060311         20 mm           ECLASS-1.1         27060311         20 mm           ECLASS-1.1         27060311         20 mm           ETIM 5.0         EC01855         20 mm           COLASS-1.1.1         27060311         20 mm           ETIM 5.0         EC01855         20 mm           Coutoms staff number         85444290         30 mm           GTIN         40487752312         40 mm           Packaging unit         1         1           Electrical data I Suph         20 mm           Operating voltage AC max.         60 V           Operating voltage CD (U.Ilisted)         30 V <td></td> <td></td>		
Width across flats         SWI3           Dagread of protection (EN EC 60529)         PP6, IP6K, IP67           Side 2         Proping length (socket)         20 mm           Commercial date         Proping length (socket)         20 mm           Commercial date         Proping length (socket)         27279218           ECLASS-0         27279218         27000000           ECLASS-10.1         27000001         27000000           ECLASS-10.1         27000001         27000000           ECLASS-10.1         27000001         27000000           ECLASS-10.0         27000001         27000000           ECLASS-10.0         27000001         27000000           EMBORATION (more of more of more of more of more of more of more of page of max.         80 V           Operating voltage DC (Mull-letted)         30 V           Operating voltage DC (Mull-letted)         30 V           Diagnostics         20 mm           Diagnostics         20 mm           Diagnostics         20 mm <td></td> <td></td>		
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Free Number of Stripping length (jacket)         20 mm           Coating contact         gold plated           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 8.0         27060311           ECLASS 10.1         27060311           ECLASS 11.1         27060311           ECLASS 12.0         27060311           ETIMS 0         EC001855           customs fariff number         85444290           GTIN         4048879752312           Packaging und         1           Peckerical data   Suppty           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating vo	<u>'</u>	SW13
Stide 2		IP65, IP66K, IP67
Conting contact         gold plated           Commercial data           CLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27090311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27090311           ETIM-5.0         EC001855           customs tariff number         85444280           GTIN         404879752312           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           Operating per contact max.         4 A           Status indication LED         no           Installation   Connection         1           Stripping length (jacket)         20 mm           Device protection   Electrical         3           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Recharical data         without           <		
Conting 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-9.1.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs stariff number         85444290           GTIN         404879752312           Packaging unit         1           Electrical data   Suppty         Voresting voltage AC max.         60 V           Operating voltage AC (max.         60 V         Operating voltage DC (max.         60 V           Operating voltage DC (max.         60 V         Operating voltage DC (Lill-listed)         30 V           Current operating per contact max.         4 A         A           Diagnostics         Status indication LED         no           Installation   Connection         Properating voltage AC (Lill-listed)         30 Y           Oberating voltage protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3	Stripping length (iacket)	20 mm
Commercial data           ECLASS-8.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           customs tarrif number         85444290           GTIN         4048879752312           Packaging unit         1           Electrical data   Supply           Operatiny voltage AC max.         60 V           Operatiny voltage AC (ULL-listed)         30 V           Status indication LED         no           Installation   Connection         Status indication LED           Status indication LED         no           Pollution Degree         3           Rated surpe voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data <t< td=""><td></td><td><del>-</del></td></t<>		<del>-</del>
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tarff number         8544290           GTIN         4048879782312           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics           Status indication LED         no           Installation   Connection         Stripping length (jacket)         20 mm           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material gouty (EC 66664-1) <td>-</td> <td>9.5 F-11.05</td>	-	9.5 F-11.05
ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         404879752312           Packaging unit         1           Electrical data   Supply         V           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Status indication LED         no           Installation Connection         Stripping length (jackel)         20 mm           Power protection   Electrical         V           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Return of corrugated		27270218
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           customs tariff number         85444290           GTN         4048879752312           Packaging unit         1           Electrical data   Supply         Understand   Supply   Understand		
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         4048279752312           Packaging unt         1           Electrical data   Supply         V           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Current operating voltage ac contact max.         4 A           A Diagnostics         Status indication LED           Status indication LED         no           Installation   Connection         Status indication legree           Powice protection   Electrical         A           Additional condition protection degree         inserled, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Installation action data         Installation action data           Material Material data         Installation action data   Material data           Material flousing         PUR		
ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879752312           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Operating port contact max.         4 A           Diagnostics           Status indication LED         no           Installation   Connection           Stripping length (jacket)         20 mm           Device protection   Electrical           Additional condition protection degree           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data           Mechanical data   Material data           Mechanical data   Material data           Material pousing         PUR           Locking material         Material striples   Material data		
ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879752312           Packaging unit         1           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 PC contact max.         4 A           Diagnostics           Status indication LED           no           Installation   Connection           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 60684-1)         1           Mechanical data   Material data           Material gasket         FKM           Material gasket         FKM           Material data   Mounting data           Mounting method         inserted, screwed, Shaking protect		
ECLASS-12.0         27060311           ETIM-5.0         EC001855           ususoms tariff number         85444290           GTIN         4048879752312           Packaging unit         1           Electrical data   Supply         1           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           Current operating per contact max.         4 A           Diagnostics         V           Status indication LED         no           Installation   Connection         V           Stripping length (jacket)         20 mm           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data         Without           Mechanical data   Material data         Without           Material gasket         FKM           Material gasket         FKM           Material ga		
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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  Operating voltage DC (UL-listed) 4 A  Diagnostics  Status indication LED no  Installation   Connection  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) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C		
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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 data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Installation   Connection	
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 data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Stripping length (jacket)	20 mm
Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Methanical data   Material data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Device protection   Electrical	
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Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	<u> </u>	
Material group (IEC 60664-1)  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		1,5 kV
Contour for corrugated hose without  Mechanical data   Material data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		
Mechanical data   Material data  Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Mechanical data	
Material gasket FKM  Material housing PUR  Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	Contour for corrugated hose	without
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Material housing PUR Locking material Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	·	FKM
Locking material  Stainless steel 1.4305 (V2A)  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		PUR
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C	<del>-</del>	Stainless steel 1.4305 (V2A)
Environmental characteristics   Climatic  Operating temperature min25 °C	Mechanical data   Mounting data	
Operating temperature min25 °C	Mounting method	inserted, screwed, Shaking protection
Operating temperature min25 °C		
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	0   2	



Additional condition temperature range	depending on cable quality

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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)
	Bit Lit 01010 2 101 (iii12)
Installation   Cable	
wire arrangement	brown, black, blue, white, gray
Cable identification	243
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, gray
Cable weigth	57,2 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
reedom 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
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
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - acket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	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
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



Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min