

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

PUR 5x0.34 shielded bk UL/CSA+drag ch. 1.5m

Male 90° M12, 5-pole shielded A-coded

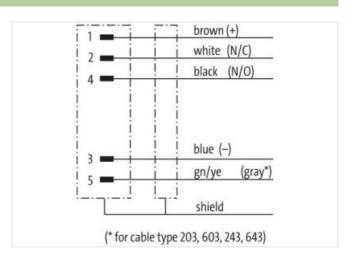
Plastic housings with good resistance against chemicals and oils.

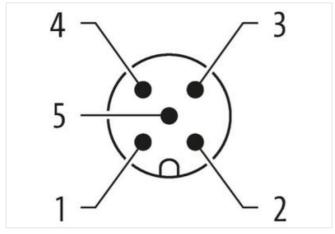
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

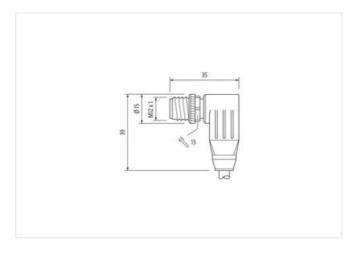
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

1,5 m

Side 1

Tightening torque 0,6 Nm



stay connected

Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Coating contact         gold pated           Coating contact         gold pated           Coating contact         27279218           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0         27060311	Mounting method	inserted, screwed
Family construction form M12 x 1 Coding A M12 x 1 Coding A A Material Contact Copper alloy Material Contact Copper alloy Width across flast SW13 Degree of protection (EN EC 60589) 1976, 1964, 1967 Side 2 Coating contact good plated Commercial data  ECLASS-6.0 2279218 ECLASS-7.0 2779218 ECLASS-8.0 2779218 ECLASS-8.0 2779218 ECLASS-8.0 2709311 ECLASS-1.1 2709311 ECLASS-1.2 279218 ECLASS-1.1 2709311 ECLASS-1.2 2709311 ECLASS-1.3 2709311 ECLASS-1.3 2709311 ECLASS-1.4 2709311 ECLASS-1.5 2		· · · · · · · · · · · · · · · · · · ·
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Coding         A           Matterial contact         Copper alloy           Matterial         PUR           Widh across fasts         SW13           Degree of protection (EN EG 65529)         IPSE, IPSEK IPS7           Side 2           Coaling comtact         god plated           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         2729218           ECLASS-9.1         27069311           ECLASS-9.1         27069311           ECLASS-1.1         27069311           ECLASS-1.1         27069311           ECLASS-1.2         27069311           ECLASS-1.3         27069311           ECLASS-1.4         27069311           ECLASS-1.5         27069311           ECLASS-1.1         27069311           ECLASS-1.2         27069311           ECLASS-1.2         27069311           ECLASS-1.2         27069311           ECLASS-1.2         27069311           ECLASS-1.2         47069311           ECLASS-1.2         47069311           ECLASS-1.2         1           CIPMA-TOTAL STATES AND ACTION AND ACTION ACTION ACT	· · · · · · · · · · · · · · · · · · ·	
Material contact         Copper alloy           Material         PUR           Witth across filas         SW13           Degree of protection (EN IEC 80529)         P95E, IPS6K, IPS7           Side 2         Conting contact         gold plated           Contact of Contact         gold plated           Contact of Contact o		
Moteral (With across fields)         PUR           With across fields         SW13           Degree of protection (EN EC 60569)         IP65, IP66K, IP67           Side 2         Conting contact         gold plated           Commercial data           ECIASS-6.0         27279218           ECIASS-7.0         27279218           ECIASS-9.0         27069311           ECIASS-9.1         27069311           ECIASS-10.1         27069311           ECIASS-11.1         27069311           ECIASS-12.0         27079318           ECIASS-12.0         27009311           ECIASS-12.1         27069311           ECIASS-12.0         27009311           ECIASS-12.0         27009311           ECIASS-12.0         27009311           ECIASS-12.0         27004315           ECIASS-12.0         27004315           ECIASS-12.0         27004315           ECIASS-12.0         27004315           ECIASS-12.0         27004311           ECIASS-12.0         27004311           ECIASS-12.0         27004311           ECIASS-12.0         27004311           ECIASS-12.0         27074443           Packaging unit		
Width across flats         SW13           Dagree of protection (EN IEC 60529)         PP65, IP66K, IP67           Side 2         Coating contact         gold plated           Coating contact         gold plated           Coating contact         gold plated           ECLASS-0         27279218           ECLASS-7.0         27279218         27279218           ECLASS-8.0         27279218         27060311           ECLASS-9.1         27060311         27060311           ECLASS-10.1         27060311         27060311           ECLASS-12.0         27060311         27060311           ETIM-5.0         ECO01855           COUSTINE (ACCUSTON)         4048879543453           Packaging unit         1           Electrical data   Supply         2007           Operating voltage DC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating per contact max.         4 A           Device protection   Electrical         30 V           Mounting set         Mickeled		
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Coating contact         gold plated           Commercial data         ECLASS 6.0         27279218           ECLASS 7.0         27279218         ECLASS 9.0         27060311           ECLASS 9.0         27060311         ECLASS 9.0         27060311           ECLASS 1.1         27060311         ECLASS 1.1         27060311           ECLASS 1.2.0         27060311         ECLASS 1.2.0         ECLASS 1.2.0           ETIM 5.0         ECOUNT 8.5         ECLASS 1.2.0         ECLASS 1.2.0           OTIN         4048879543453         ACCASS 1.2.0         ECLASS 1.2.0           Depracing 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 AC (UL-listed)         30 V           Current operating per contact max.         4 A         A           Instillation   Connection         M12 x 1           Mounting act         M12 x 1           Motional condition protection degree         insurance, serviced           Pollution protection   Electrical         Insurance   Insurance   Insurance   Insurance		
Side 2           Commercial data           COMMERCIAL SSA-0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECLASS-13.0         ECO4085           COUNTY         044887954343           ETIM-5.0         ECO4085           GTIN         404887954343           Electrical data I Supply         V           Operating voltage AC Cmax.         60 V           Operating voltage AC Cmax.         60 V           Operating voltage AC (UL-liated)         30 V		
Commercial data           ECLASS-8.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         18544280           GTIN         404887963453           packaging unit         1           Electrical data   Supply           Operating voltage PC max.         60 V           Operating voltage PC max.         60 V           Operating voltage PC (UL-listed)         30 V           Operating voltage PC (UL-listed)         30 V           Operating port content max.         4 A           Installation   Connect tom         M12 x 1           Device protection   Electrical         Additional condition protection degree   inserted. screwed           Pollution Degree         3           Reted stugs voltage         1,5 kV           Material group (IEC 60684-1)   Electrical           Mechanical data   Material data   Mater		
Commercial data           ECLASS-8.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         18544280           GTIN         404887963453           packaging unit         1           Electrical data   Supply           Operating voltage PC max.         60 V           Operating voltage PC max.         60 V           Operating voltage PC (UL-listed)         30 V           Operating voltage PC (UL-listed)         30 V           Operating port content max.         4 A           Installation   Connect tom         M12 x 1           Device protection   Electrical         Additional condition protection degree   inserted. screwed           Pollution Degree         3           Reted stugs voltage         1,5 kV           Material group (IEC 60684-1)   Electrical           Mechanical data   Material data   Mater	Coating contact	gold plated
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         2779218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001955           Lustoms tarff number         85444390           GTIN         4048879543453           Packaging unit         1           Electrical data Suppty           Operating voltage AC max.         60 V           Operating voltage AC full-listed.         30 V           Operating voltage AC (Ull-listed.)         30 V           Oursend portage par contact max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         M12 x 1           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (ICE 60684-1)         I           Mechanical data   Material data         Image: Accordance of the control of the co		gora pariou
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         404879543433           Packaging unit         1           Electrical datal Supply         V           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage DC max.         4 A           Installation   Connection         Mult x 1           Mounting set         M12 x 1           Device protection   Electrical Activation   Connection           Mounting set         Installation   Connection           Material grape voltage         Installation   Connection           Additional contilition protection degree         Installation   Connection   Conne		27070210
ECLASS-8.0         27279218           ECLASS-9.0         27660311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC01855           customs tariff number         85444290           GTIN         4048879543453           Peckaging unt         1           Electrical data Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Installation   Contection         M12 x 1           Decidencing voltage AC (UL-listed)           Additio		
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ECLASS-1.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         404879543453           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           Operating voltage AC (UL-listed)         15 kV <td></td> <td></td>		
ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879543453           Packaging unit         I           Electrical data   Supply         Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Munting set           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 60684-1)         1           Mechanical data   Material data         Mickeled           Coating folking         nickel plated           Locking material         Zinc die-casting           Meterial screw connection         Zinc die-casting           Meterial grow (IEC 60684   Number of the casting of thing in the casting of thing i		
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ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879543453           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (U-Listed)         30 V           Operating voltage PC (U-Listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Installation   Connection           Mounting set         M12 x 1           Pedice protection   Electrical         Inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Inserted, screwed           Coating locking         Nickeled           Coating locking         Nickeled           Coating material         Zinc die-casting           Mechanical data   Mounting data         Mounting material           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Ciperating temperature min.         -25 °C		
customs tariff number         85444290           GTIN         4048879543453           Packaging unit         I           Electrical data   Supply         I           Operating voltage AC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating port posted max.         4 A           Installation   Connection         W           Mounting set         M12 x 1           Device protection   Electrical         M12 x 1           Additional condition protection degree         1,5 kV           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         1           Coating of fitting         nickel plated           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         2 Inc die-casting           Metanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         25 °C           Coperating temperature min.         25 °C           Operating temperature max.         85 °C           Additional conditio		
GTIN         4048879543453           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Installation   Connection   Electrical           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   Material data         I           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Ciperating temperature min.         -25 °C           Operating temperature max.         depending on cable quality		
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Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection           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   Material data           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method           Mechanical data   Mounting data         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           Conformity	Operating voltage AC max.	60 V
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Mounting set M12 x 1  Pevice 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   Material data  Coating locking Nickeled  Coating of fitting nickel plated Locking material screw connection Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Product standard DIN EN 61076-2-101 (M12)	Operating voltage DC (UL-listed)	30 V
Mounting set M12 x 1  Pevice 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   Material data  Coating locking Nickeled  Coating of fitting nickel plated Locking material Screw connection Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. Additional condition temperature range depending on cable quality  Product standard DIN EN 61076-2-101 (M12)	Current operating per contact max.	4 A
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   Material data  Coating locking Nickeled  Coating of fitting nickel plated Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Dierating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Conformity  Product standard DIN EN 61076-2-101 (M12)	Installation   Connection	
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Rated surge voltage 1,5 kV  Material group (IEC 6064-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Product standard DIN EN 61076-2-101 (M12)	Additional condition protection degree	inserted, screwed
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Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Conformity  Product standard DIN EN 61076-2-101 (M12)	Mechanical data   Mounting data	
Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Conformity  Product standard DIN EN 61076-2-101 (M12)		inserted, screwed, Shaking protection
Operating temperature min.  Operating temperature max.  85 °C  Additional condition temperature range  depending on cable quality  Conformity  Product standard  DIN EN 61076-2-101 (M12)		
Operating temperature max.  Additional condition temperature range depending on cable quality  Conformity  Product standard DIN EN 61076-2-101 (M12)		
Additional condition temperature range depending on cable quality  Conformity  Product standard DIN EN 61076-2-101 (M12)		
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Product standard DIN EN 61076-2-101 (M12)		
		DIN FN 61076-2-101 (M12)
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stay connected

Cable identification	642
Cable Type	3
Jacket Color	black
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
No. of bending cycles (C-track)	5 Mio. @ 25 °C
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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
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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