

## M12 male 0° / M12 female 0° A-cod.

PUR AWG24+22 shielded vt UL/CSA+drag ch. 2.5m

DeviceNet, CANopen Male straight – female straight M12 – M12, 5-pole A-coded shielded

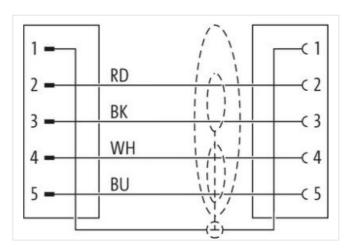
Plastic housings with good resistance against chemicals and oils.

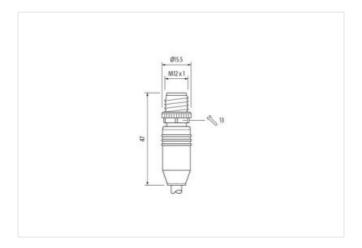
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

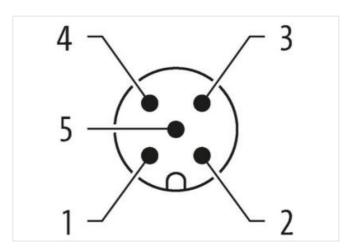
## **Link to Product**

## Illustration



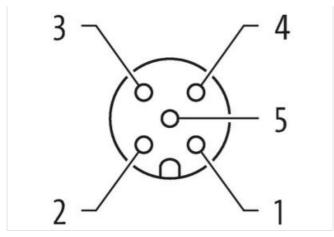








stay connected



Product may differ from Image













Family construction form M12 Thread M12 x 1 Cable outlet straight Coding A Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67  Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 Cable outlet straight Coding A	Cable length	2,5 m
Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IPS F66K, IP67           Side 2         Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial date         ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307     <	Side 1	
Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-11.1         <	Tightening torque	0,6 Nm
Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-14.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         2706	Mounting method	inserted, screwed
Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial date           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-11.1         27060307           ECLASS-11.1         27060307           ECLASS-11.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECUASS-12.0         27060307           ECUASS-12.0         27060307 <td>Family construction form</td> <td>M12</td>	Family construction form	M12
Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         ECO01855           customs tariff number         85444290	Thread	M12 x 1
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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           ECLASS-12.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307	Cable outlet	straight
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Protection (EN IEC 60529)           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Codie outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.2         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECUASS-12.0         27060307           ECUASS-12.0         27060307           ECUASS-12.0         27060307	Coding	A
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC01855           customs tariff number         85444290	Material	PUR
Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         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	Width across flats	SW13
Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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           ECLASS-1         27060307 <td>Degree of protection (EN IEC 60529)</td> <td>IP65, IP66K, IP67</td>	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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-11.2         27060307           ECLASS-12.0         27060307           ECLASS-12.0         28060307           ECLASS-11.1         28060307           ECLASS-11.1         28060307           ECLASS-11.1         28060307           ECLASS-11.1         28060307           ECLASS-11.2         28060307           ECLASS-11.2         28060307           ECLASS-12.0         28060307           ECLASS-12.0         28060307           ECLASS-12.0         28060307           ECLASS-12.0         28060307 <td>Side 2</td> <td></td>	Side 2	
Family construction form         M12           Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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         EC01855           customs tariff number         85444290	Tightening torque	0,6 Nm
Thread         M12 x 1           Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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	Mounting method	inserted, screwed
Cable outlet         straight           Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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           ECLASS-12.0         27060307           ECLASS-12.0         85444290	Family construction form	M12
Coding         A           Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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           ECLASS-12.0         27060307           ECLASS-12.0         28000007           ETIM-5.0         EC001855           Customs tariff number         85444290	Thread	M12 x 1
Material         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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           ECLASS-12.0         27060307           ECLASS-12.0         25060307		straight
Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           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           ECLASS-12.0         85444290	Coding	A
Commercial data         ECLASS-6.0       27279218         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	Material	PUR
ECLASS-6.0 27279218  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  ECLASS-12.0 27060307  ECLASS-12.0 27060307	Width across flats	SW13
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	Commercial data	
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	ECLASS-6.0	27279218
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	ECLASS-6.1	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	ECLASS-7.0	27060307
ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-8.0	27060307
ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-9.0	27060307
ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-10.1	27060307
ETIM-5.0 EC001855 customs tariff number 85444290	ECLASS-11.1	27060307
customs tariff number 85444290	ECLASS-12.0	27060307
	ETIM-5.0	EC001855
GTIN 4048879164979	customs tariff number	85444290
	GTIN	4048879164979

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: 2024-05-04



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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
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)	130 KV
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Mechanical data	94
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
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	<b>Attention:</b> 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)
Traversing distance (C-track)	5 m
Cable weigth	63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A

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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
Outer diameter insulation	2,1 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	64 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 AWG
Drain wire (cross-section)	22 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)	± 53 %
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Amount wires (Data)	2
Amount strands wire (Data)	19
Diameter of single wires (Data)	22 AWG
Conductor crosssection wire (Data)	22 AWG
Material conductor wire (Data)	copper stranded wire, tinned
Electrical function wire (data)	Power
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 (Data)	6 A
Electrical function wire	Data
Electrical function wire (data)	Power
Characteristic impedance	120 Ω ± 10 % @ 1 MHz
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
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
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Operating temperature max. (dynamic) Flame resistance	70 °C UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Chemical resistance  Gasoline resistance	Good, application-related testing
	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
Torsion speed	35 cycles/min