

## M12 male 90° / M12 female 90° A-cod. shielded

PUR 5x0.34 shielded gy UL/CSA+drag ch. 1m

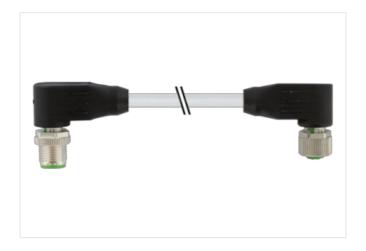
Male  $90^{\circ}$  – female  $90^{\circ}$  M12 – M12, 5-pole shielded

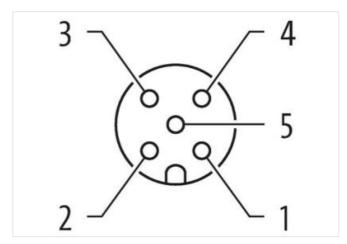
Plastic housings with good resistance against chemicals and oils.

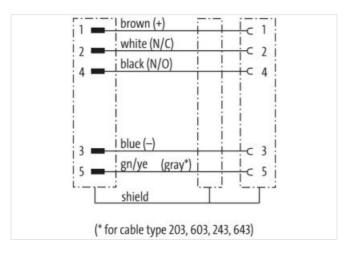
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

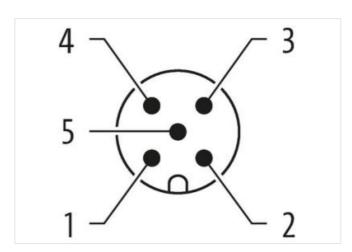
## **Link to Product**

## Illustration



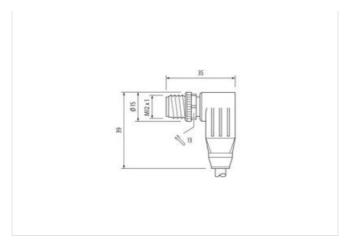


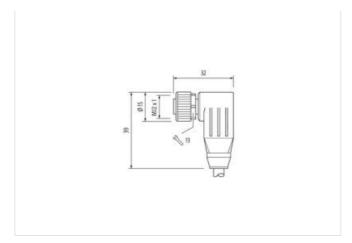






stay connected





Product may differ from Image













Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial dat         PUR           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         2760311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Countsms tariff number         85444290           GTIN         4048879719131	Cable length	1 m
Mounting method   Inserted, screwed	Side 1	
Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS -6.0         27279218           ECLASS -6.0         27279218           ECLASS -7.0         27279218           ECLASS -9.0         27060311           ECLASS -1.1         27060311           ECLASS -1.1         27060311           ECLASS -1.2.0         27060311           ECLASS -1.2.0         27060311           ECLASS -1.2.0         85444290           GTIN         4048879719131	Tightening torque	0,6 Nm
Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0         27060311           ECLASS 9.0         27060311           ECLASS 9.1.1         27060311           ECLASS 9.1.1         27060311           ECLASS 9.0         E001855           customs tariff number         85444290           GTIN         4048879719131	Mounting method	inserted, screwed
Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27001155           customs tariff number         85444290           GTIN         4048879719131	Family construction form	M12
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         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         27060311           ECLASS-12.0         27060311           ECTASS-10.1         27060311           ECTASS-10.2         27060311           ECTASS-10.3         27060311           ECTASS-10.4         27060311           ECTASS-10.5         27060311           ECTASS-	Thread	M12 x 1
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECTASS-10-1         27060311           ECLASS-12.0         27060311           ECTASS-10-1         27060311           ECLASS-12.0         27060311           ECTASS-10-1         27060311           ECLASS-12.0 </td <td>Coding</td> <td>A</td>	Coding	A
Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Family companies         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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           ECLASS-12.0         27060311           ECTM-5.0         EC01855           customs tariff number         85444290           GTIN         4048879719131	Material	PUR
Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         8444290           GTIN         4048879719131	Width across flats	SW13
Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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         4048879719131	Degree of protection (EN IEC 60529)	IP66K, IP67
Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879719131	Side 2	
Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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         4048879719131	Tightening torque	0,6 Nm
Thread M12 x 1  Coding A  Material PUR  Width across flats SW13  Degree of protection (EN IEC 60529) IP66K, IP67  Commercial data  ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-9.0 27060311  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ECLASS-10.0 ECO01855  customs tariff number 85444290  GTIN 4048879719131	Mounting method	inserted, screwed
Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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         4048879719131	Family construction form	M12
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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         4048879719131	Thread	M12 x 1
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           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         4048879719131	Coding	A
Degree of protection (EN IEC 60529)         IP66K, IP67           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         4048879719131	Material	PUR
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         4048879719131	Width across flats	
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  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879719131	Degree of protection (EN IEC 60529)	IP66K, IP67
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 4048879719131	Commercial data	
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       4048879719131	ECLASS-6.0	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 4048879719131	ECLASS-7.0	27279218
ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879719131	ECLASS-8.0	27279218
ECLASS-11.1     27060311       ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879719131	ECLASS-9.0	27060311
ECLASS-12.0       27060311         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879719131	ECLASS-10.1	27060311
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879719131	ECLASS-11.1	27060311
customs tariff number         85444290           GTIN         4048879719131	ECLASS-12.0	27060311
GTIN 4048879719131	ETIM-5.0	EC001855
	customs tariff number	85444290
Packaging unit 1	GTIN	4048879719131
	Packaging unit	1
Electrical data   Supply	Electrical data   Supply	



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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
Material group (IEC 60664-1)	1
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	in the decrease of Obstitute and other contents.
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	
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 %
Cable shielding (coverage)  Banding	80 % Fleece, Foil
Banding	Fleece, Foil
Banding Filler	Fleece, Foil yes
Banding Filler wire arrangement	Fleece, Foil yes brown, black, blue, white, gray
Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket	Fleece, Foil yes brown, black, blue, white, gray 57,2 g/m PUR 90 ± 5 Shore A
Banding Filler wire arrangement Cable weigth  Material jacket Shore hardness jacket Freedom from ingredients (jacket)	Fleece, Foil yes brown, black, blue, white, gray 57,2 g/m PUR
Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket	Fleece, Foil yes brown, black, blue, white, gray 57,2 g/m PUR 90 ± 5 Shore A
Banding Filler wire arrangement Cable weigth  Material jacket Shore hardness jacket Freedom from ingredients (jacket)	Fleece, Foil  yes  brown, black, blue, white, gray  57,2 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	Fleece, Foil  yes  brown, black, blue, white, gray  57,2 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,6 mm
Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	Fleece, Foil  yes  brown, black, blue, white, gray  57,2 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,6 mm  ± 5 %
Banding Filler wire arrangement Cable weigth  Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	Fleece, Foil  yes  brown, black, blue, white, gray  57,2 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free  5,6 mm  ± 5 %  PP

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: 2024-05-20

No. of torsion cycles

Torsion stress

Torsion speed



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 mm²
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 - jacket)	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

2 Mio.

± 30 °/m

35 cycles/min