

## M12 male 90° / M12 female 0° A-cod. shielded

PUR 8x0.25 shielded gy UL/CSA+drag ch. 10m

Male 90° – female straight M12 – M12, 8-pole shielded

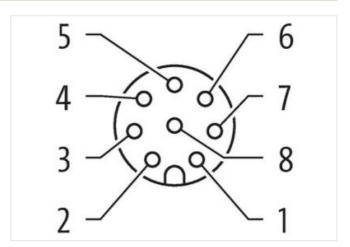
Plastic housings with good resistance against chemicals and oils.

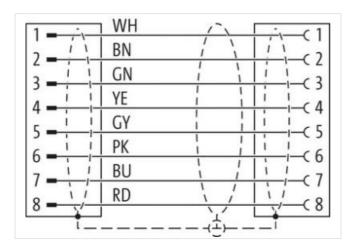
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

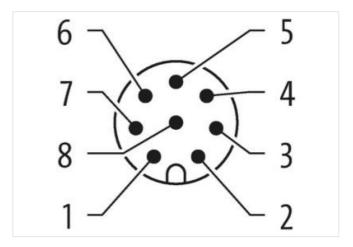
## **Link to Product**

## Illustration



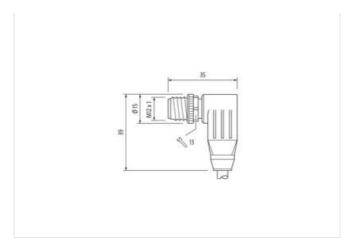


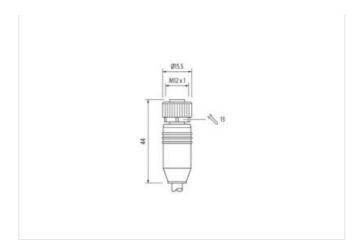






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Product may differ from Image





Side 1         Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Side 2         Tightening torque           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial date           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage OC (UL-listed)         30 V           Operating	Cable length	10 m
Family construction form   M12	Side 1	
Thread   M12 x 1	Tightening torque	0,6 Nm
Coding         A           Material         PUR           Width across flats         SW13           Side 2           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         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-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Family construction form	M12
Material         PUR           Width across flats         SW13           Side 2         Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27660311           ECLASS-9.0         27660311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Customs tariff number         8544290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V	Thread	M12 x 1
Width across flats         SW13           Side 2         Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.0.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECTIM-5.0         EC001855           customs tarriff number         85444290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Coding	A
Side 2           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECIMS-15.0         EC001855           customs tariff number         85444290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage AC (UL-listed)         30 V	Material	PUR
Tightening torque	Width across flats	SW13
Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Side 2	
Thread   M12 x 1	Tightening torque	0,6 Nm
Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Family construction form	M12
Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V	Thread	M12 x 1
Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Coding	A
ECLASS-6.0 27279218  ECLASS-6.1 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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage AC (UL-listed) 30 V	Material	PUR
ECLASS-6.1 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC01855  customs tariff number 85444290  GTIN 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage AC (UL-listed) 30 V	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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-6.0	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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-6.1	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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V	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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-8.0	27279218
ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-9.0	27060311
ECLASS-12.0 27060311  ETIM-5.0 EC001855 customs tariff number 85444290  GTIN 4048879138956 Packaging unit 1  Electrical data   Supply Operating voltage AC max. 30 V Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	ECLASS-10.1	27060311
ETIM-5.0		
customs tariff number 85444290 GTIN 4048879138956 Packaging unit 1  Electrical data   Supply Operating voltage AC max. 30 V Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V		27060311
GTIN 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V		
Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V		85444290
Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V		4048879138956
Operating voltage AC max. 30 V Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	Packaging unit	1
Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	Electrical data   Supply	
Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	Operating voltage AC max.	30 V
	Operating voltage DC max.	30 V
Operating voltage DC (UL-listed) 30 V	Operating voltage AC (UL-listed)	30 V
	Operating voltage DC (UL-listed)	30 V

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: 2024-04-28



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Current operating per contact max.	2 A
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Pollution Degree	3
Rated surge voltage	0.8 kV
Material group (IEC 60664-1)	0,0 %
Mechanical data   Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	80 °C
Additional condition temperature range	depending on cable quality
Conformity	
	DIN EN 61076 2 101 (M12)
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	291
Cable Type	3
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	8 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
Filler	yes
wire arrangement	brown, white, red, blue, pink, gray, yellow, green
No. of bending cycles (C-track)	5 Mio. @ 25 ℃
Cable weigth	78,1 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)	7 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	8
Outer diameter insulation	1,2 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)	32
Diameter of single wires	32 0,1 mm
Diameter of single wires Conductor crosssection (wire)	32 0,1 mm 0,25 mm <sup>2</sup>
Diameter of single wires  Conductor crosssection (wire)  Material conductor wire	32 0,1 mm 0,25 mm <sup>2</sup> Stranded copper wire, bare
Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire)	32 0,1 mm 0,25 mm² Stranded copper wire, bare strand class 6
Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Traversing distance (C-track)	32 0,1 mm 0,25 mm² Stranded copper wire, bare strand class 6 5 m @ 25 °C   horizontal
Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Traversing distance (C-track)  Current load capacity (standard)	32 0,1 mm 0,25 mm² Stranded copper wire, bare strand class 6 5 m @ 25 °C   horizontal to DIN VDE 0298-4
Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Traversing distance (C-track) Current load capacity (standard) Current load capacity min. wire	32 0,1 mm 0,25 mm² Stranded copper wire, bare strand class 6 5 m @ 25 °C   horizontal to DIN VDE 0298-4 3 A
Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Traversing distance (C-track)  Current load capacity (standard)	32 0,1 mm 0,25 mm² Stranded copper wire, bare strand class 6 5 m @ 25 °C   horizontal to DIN VDE 0298-4



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
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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