

## M12 male 90° / M8 female 90° A-cod.

PUR 3x0.25 gy UL/CSA 1.1m

## ⚠ NOTICE ⚠ PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

Male 90° - female 90°

M12 – M8, 3-pole

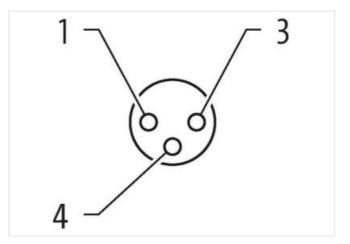
Plastic housings with good resistance against chemicals and oils.

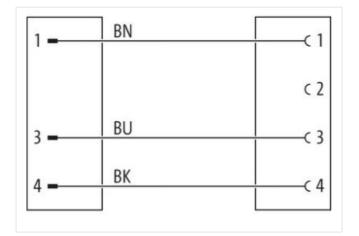
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

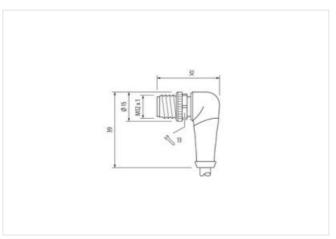
## Link to Product

Illustration



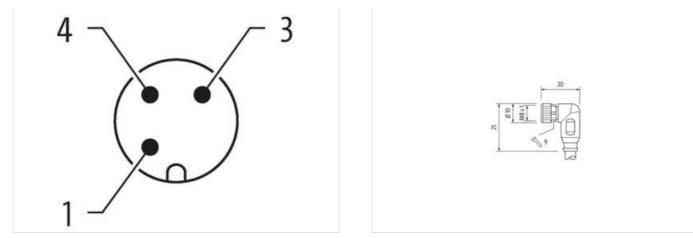






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Product may differ from Image



Cable length   1,1 m     Side 1   Tightening torque   0.6 Nm     Mounting method   inserted, screwed     Family construction form   M12     Thread   M12 x 1     suitable for corrugated tube (internal Ø)   10 mm     Material   PUR     Width across flats   SW13     Degree of protection (EN IEC 60s29)   IP66K, IP67     Side 2      Tightening torque   0.4 Nm     Mounting method   inserted, screwed     Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   PUR     ECLASS-6.0   27279218     ECLASS-7.0   27279218     ECLASS-7.0   27279218     ECLASS-1.1   27060311     ECLASS-1.2   27060311     ECLASS-1.2   27060311     ECLASS-1.2.0   2706031		
Tightening torque   0.6 Nm     Mounting method   inserted, screwed     Family construction form   M12     Thread   M12 x 1     suitable for corrugated tube (internal Ø)   10 mm     Material   PUR     Widh across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2	Cable length	1,1 m
Mounting method   inserted, screwed     Family construction form   M12     Thread   M12 x 1     suitable for corrugated tube (internal Ø)   10 mm     Material   PUR     Width across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2      Trightening torque   0,4 Nm     Mounting method   inserted, screwed     Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP6K, IP67     Commercial data   27279218     ECLASS-6.0   27279218     ECLASS-6.1   27279218     ECLASS-7.0   27279218     ECLASS-7.0.1   27060311     ECLASS-10.1   27060311     ECLASS-10.1   27060311     ECLASS-10.1   27060311     ECLASS-10.1   27060311     ECLASS-10.1   27060311	Side 1	
Family construction form   M12     Thread   M12 x 1     suitable for corrugated tube (internal Ø)   10 mm     Material   PUR     With across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2	Tightening torque	0,6 Nm
Thread   M12 x 1     suitable for corrugated tube (internal Ø)   10 mm     Material   PUR     Width across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2	Mounting method	inserted, screwed
suitable for corrugated tube (internal Ø)   10 mm     Material   PUR     Width across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2	Family construction form	M12
Material   PUR     Width across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2	Thread	M12 x 1
Width across flatsSW13Degree of protection (EN IEC 60529)IP66K, IP67Side 2IP66K, IP67Tightening torque0,4 NmMounting methodinserted, screwedFamily construction formM8ThreadM8 x 1suitable for corrugated tube (internal 0)6,5 mmMaterialPURWidth across flatsSW9Degree of protection (EN IEC 60529)IP66K, IP67Commercial data27279218ECLASS-6.027279218ECLASS-7.027279218ECLASS-7.027279218ECLASS-9.027060311ECLASS-11.127060311ECLASS-12.027060311ECLASS-12.027060311ECLASS-12.0EC001855customs tariff number85444290GTIN4048879409551Packaging unit1	suitable for corrugated tube (internal Ø)	10 mm
Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2   Tightening torque   0,4 Nm     Mounting method   inserted, screwed     Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   27279218     ECLASS-6.0   27279218     ECLASS-7.0   27279218     ECLASS-9.0   27260311     ECLASS-9.0   27060311     ECLASS-1.1   27060311     ECLASS-1.2   27060311     ECLASS-1.2   27060311     ECLASS-1.2   27060311     ECLASS-1.2   27060311     ECLASS-1.1   27060311     ECLASS-1.2   27060311     ETIM-5.0   ECO01855     customs tariff number   85444290     GTIN   4048879409551     Packaging unit   1	Material	PUR
Side 2     Tightening torque   0.4 Nm     Mounting method   inserted, screwed     Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   ECLASS-6.0     ECLASS-6.0   27279218     ECLASS-6.1   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27060311     ECLASS-1.1   27060311     ECLASS-12.0   27060311     ECLASS-12.0   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC0011855     customs tariff number   85444290     GTIN   4048879409551     Packaging unit   1	Width across flats	SW13
Tightening torque   0,4 Nm     Mounting method   inserted, screwed     Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   27279218     ECLASS-6.0   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-8.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27060311     ECLASS-10.1   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   4048879409551     Packaging unit   1	Degree of protection (EN IEC 60529)	IP66K, IP67
Mounting method   inserted, screwed     Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   ECLASS-6.0     ECLASS-6.1   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27260311     ECLASS-10.1   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   4048879409551     Packaging unit   1	Side 2	
Family construction form   M8     Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   ECLASS-6.0     ECLASS-6.0   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   272709218     ECLASS-8.0   27279218     ECLASS-9.0   272060311     ECLASS-9.0   27060311     ECLASS-1.1   27060311     ECLASS-1.2.0   27060311     ECLASS-1.2.0   27060311     ETIM-5.0   EC001855     oustoms tariff number   85444290     GTIN   4048879409551     Packaging unit   1	Tightening torque	0,4 Nm
Thread   M8 x 1     suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data     ECLASS-6.0   27279218     ECLASS-6.1   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27279218     ECLASS-9.0   27279218     ECLASS-9.0   27279218     ECLASS-1.1   27060311     ECLASS-10.1   27060311     ECLASS-11.1   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879409551     Packaging unit   1	Mounting method	inserted, screwed
suitable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Width across flats   SW9     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   27279218     ECLASS-9.0   272060311     ECLASS-1.1   27060311     ECLASS-1.1   27060311     ECLASS-1.2.0   27060311     ECLASS-1.2.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879409551     Packaging unit   1	Family construction form	M8
Material   PUR     Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   27279218     ECLASS-6.0   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27279218     ECLASS-9.0   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   4048879409551     Packaging unit   1	Thread	M8 x 1
Width across flats   SW9     Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   ECLASS-6.0   27279218     ECLASS-6.1   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27279218     ECLASS-9.0   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   4048879409551     Packaging unit   1	suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Degree of protection (EN IEC 60529)   IP66K, IP67     Commercial data   ECLASS-6.0   27279218     ECLASS-6.1   27279218   ECLASS-7.0   27279218     ECLASS-8.0   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   ECLASS-12.0   27060311     ETIM-5.0   EC001855   customs tariff number   85444290     GTIN   4048879409551   Packaging unit   1	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   EC01855     customs tariff number   85444290     GTIN   4048879409551     Packaging unit   1	Width across flats	SW9
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   4048879409551     Packaging unit   1	Degree of protection (EN IEC 60529)	IP66K, IP67
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 4048879409551   Packaging unit 1	Commercial data	
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   4048879409551     Packaging unit   1	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 4048879409551   Packaging unit 1	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   4048879409551     Packaging unit   1	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   4048879409551     Packaging unit   1	ECLASS-8.0	27279218
ECLASS-11.1 27060311   ECLASS-12.0 27060311   ETIM-5.0 EC001855   customs tariff number 85444290   GTIN 4048879409551   Packaging unit 1	ECLASS-9.0	27060311
ECLASS-12.0   27060311     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879409551     Packaging unit   1	ECLASS-10.1	27060311
ETIM-5.0   EC001855     customs tariff number   8544290     GTIN   4048879409551     Packaging unit   1	ECLASS-11.1	27060311
customs tariff number85444290GTIN4048879409551Packaging unit1	ECLASS-12.0	27060311
GTIN   4048879409551     Packaging unit   1	ETIM-5.0	
Packaging unit 1	customs tariff number	85444290
	GTIN	4048879409551
Electrical data   Supply	Packaging unit	1
	Electrical data   Supply	

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Operating voltage AC max.	50 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
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
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	
Mounting method	inserted, screwed, Shaking protection
5	
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Installation   Cable	
Cable identification	220
Cable Type	2
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	brown, black, blue
Cable weigth	26,62 g/m
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	4,3 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	2 Mio. @ 25 °C
	300 V



Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
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)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter

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