

## M12 male 90° A-cod. / MSUD valve plug B-10mm

PUR 3x0.75 bk UL/CSA+robot+drag ch. 1m

Form B (10 mm) - M12, male 90° 24 V AC ±20% / DC ±25% LED and suppression

Further cable lengths on request.

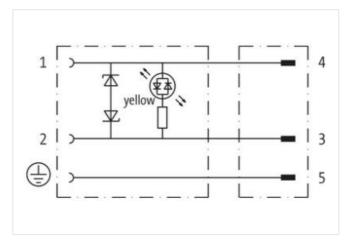
Plastic housings with good resistance against chemicals and oils.

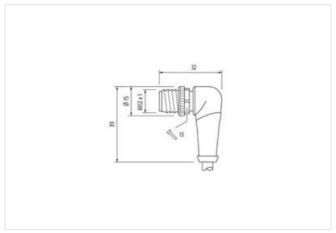
The resistance to aggressive media should be individually tested for your application. Further details on request.

## **Link to Product**

## Illustration







Product may differ from Image



Cable length 1 m Side 1 Tightening torque 0,4 Nm



stay connected

Side 2         Cipstering locque         0.6 Nm           Infread         M12 x 1           Degree of protection (EN IEC 60529)         IP68K, IP67           Commercial data         Commercial data           CLASS 6.0         27279218           CLASS 6.1         27279218           CLASS 7.0         27279218           CLASS 7.0         27279218           CLASS 7.0         27090312           CLASS 7.1         27060312           CLASS 7.1         27060312           CLASS 7.1         27060312           CLASS 7.2         27090312           CLASS 7.1         27060312           CLASS 7.1         27060312           CLASS 7.2         27090312           CLASS 7.1         27060312           CLASS 7.2         27080312           CLASS 7.2<	Thread	M3
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	Side 2	
	Tightening torque	0.6 Nm
Commercial data         Carporation           CcLASS-6.0         27279218           CcLASS-7.0         27279218           CcLASS-8.0         27279218           CcLASS-8.0         27279218           CcLASS-9.0         27090312           CcLASS-10.1         27090312           CcLASS-11.1         27090312           CcLASS-12.0         27090312           CcLASS-12.0         27090312           TIM 9.0         ECOLOTESS           actions trainf number         8544290           3TIN         4048879610223           TIM 9.0         20 ms           Electrical data         Electrical data           Capacity CX         20 ms           Electrical data   Supply         Electrical data   Supply           Deparating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC min.         18 V <td>Thread</td> <td>· · · · · · · · · · · · · · · · · · ·</td>	Thread	· · · · · · · · · · · · · · · · · · ·
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CLASS-8.0   27279218   CLASS-9.0   27060312   CLASS-1.1   27060312   CLASS-1.1   27060312   CLASS-1.1   27060312   CLASS-1.2   27060312		
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Arackajn unit 1  Electrical data   Supply   Superating voltage AC   24 V   Superating voltage AC min.   19,2 V   Superating voltage AC min.   19,2 V   Superating voltage DC   24 V   Superating voltage DC   24 V   Superating voltage DC   24 V   Superating voltage DC min.   18 V   Superating voltage DC min.   18 V   Superating voltage DC min.   18 V   Superating voltage DC max.   30 V   Superating voltage max.   55 V   Superating voltage max.   55 V   Superating per contact max.   4 A   Superating per contact max.   5 S C   Superating per superature min.   25 S C   Superating temperature max.   2	customs tariff number	85444290
Electrical data   Supply   Derating voltage AC	GTIN	4048879610223
Electrical data   Supply  Derating voltage AC	Packaging unit	1
Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC ini. 19,2 V  Operating voltage AC max. 28,8 V  Operating voltage DC 24 V  Operating voltage DC ini. 18 V  Operating voltage DC max. 30 V  Operating voltage DC max. 30 V  Operating voltage DC max. 4 A  Current operating per contact max. 4 A  Current consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Additional condition protection degree inserted, screwed  Action housing black  Material housing plack  Mechanical data   Material data  Color housing black  Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Important installation notes  Vole on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Electrical data	
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Diagnostics Status indication LED yellow  Device protection   Electrical  Additional condition protection degree inserted, screwed Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on bending radius Additional protection class can be endangered by excessive bending forces.	Cut-off peak voltage max.	55 V
Diagnostics Status indication LED yellow  Device protection   Electrical  Additional condition protection degree inserted, screwed  Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Current operating per contact max.	4 A
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Note on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		
Note on bending radius endangered by excessive bending forces.	Note on strain relief	
Installation   Cable	Note on bending radius	
	Installation   Cable	



## stay connected

Cable identification	656
Cable Type	5
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Cable weigth	48,4 g/m
Material jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5,2 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,7 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
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	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min