

**M12 female 0° A-cod. with cable**

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

MSUD

Form A (18 mm) – M12, male straight

24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

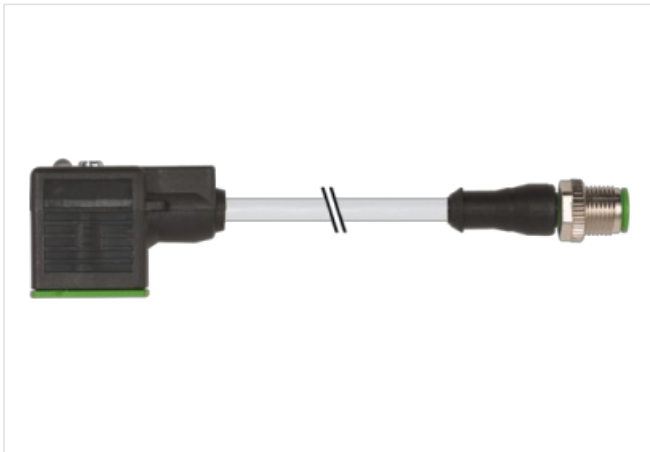
LED and suppression

Stainless steel 1.4305 (V2A)

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

Family construction form MSUD

Thread M3

Degree of protection (EN IEC 60529) IP66K, IP67

**Side 2**

Tightening torque 0,6 Nm

Family construction form M8

Thread M12 x 1

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 27060312

ECLASS-11.1 27060312

ECLASS-12.0 27060312

ETIM-5.0 EC001855

customs tariff number 85444290

GTIN 4065909037546

Packaging unit 1

**Electrical data**

Drop-out delay time max. 20 ms

**Electrical data | Supply**

Operating voltage AC 24 V

Operating voltage AC min. 19,2 V

Operating voltage AC max. 28,8 V

Operating voltage DC 24 V

Operating voltage DC min. 18 V

Operating voltage DC max. 30 V

Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
<b>Device protection   Electrical</b>	
Additional condition protection degree	inserted, screwed
<b>Mechanical data   Material data</b>	
Color housing	black
Material housing	Plastic
<b>Environmental characteristics   Climatic</b>	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
<b>Important installation notes</b>	
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.
<b>Installation   Cable</b>	
wire arrangement	black 1, black 2, green-yellow
Cable identification	236
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weight	56,1 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)	5,9 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,85 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
Printing color of wire insulation	white (isolation black)
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

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: 2024-06-23

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Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min