

### M12 female 0° A-cod. with cable V2A

PVC 5x0.34 gy UL/CSA 7.5m

Art.No.: 7002-12241-2150750

Weight: 0.342 kg

Country of origin: DE

Model designation: MSBL0-U215\_7.5-S02

#### Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

#### Product details:

Female straight

M12, 5-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

Stainless steel 1.4305 (V2A)

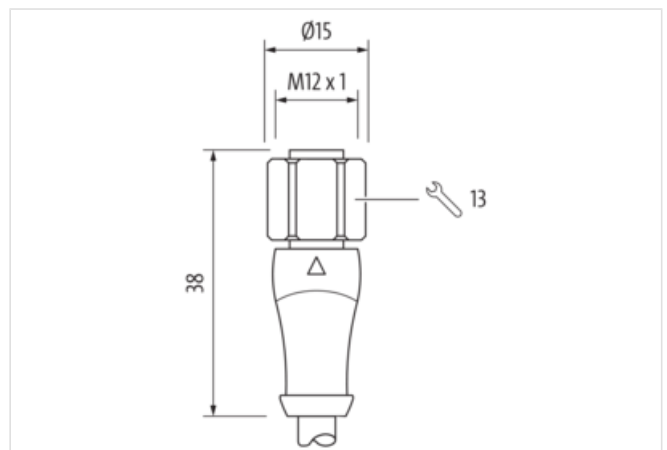
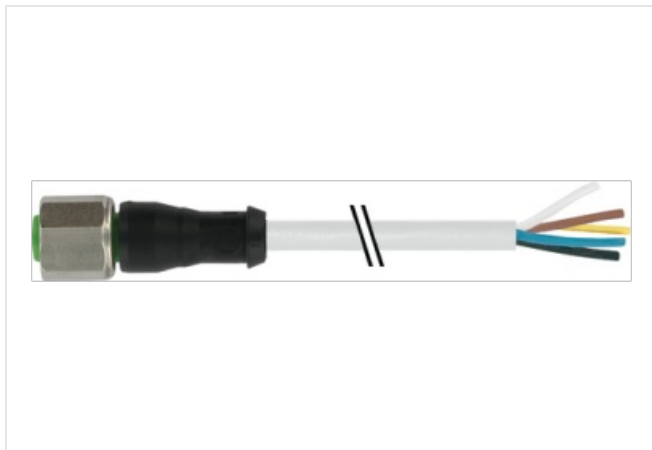
Plastic housings with good resistance against chemicals and oils.

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

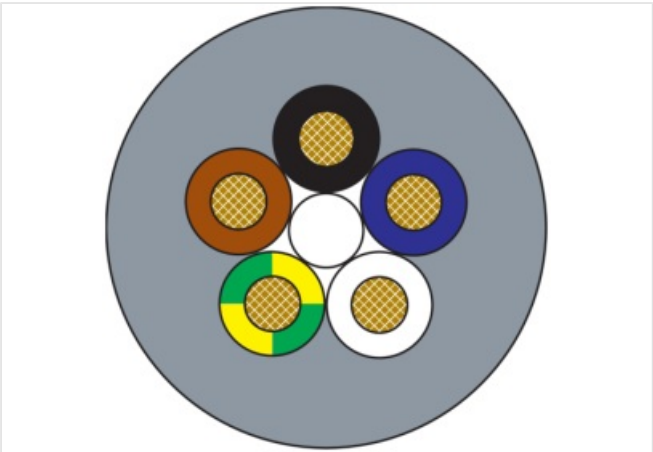
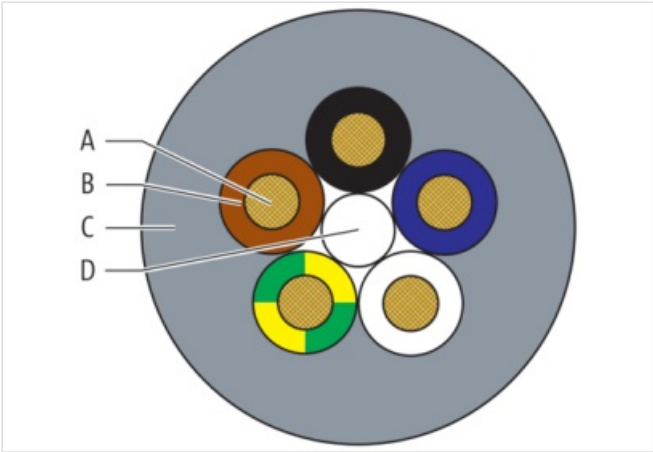
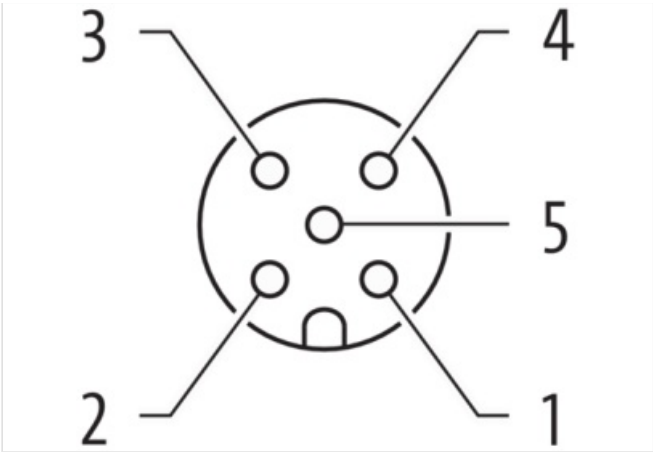
Further cable lengths on request.

#### [Link to Product](#)

##### Illustration



1	BN
2	WH
3	BU
4	BK
5	GN YE



Product may differ from Image



Header	
Material short text	MSBL0-U215_7.5-S02
Cable length	7,50 m
Side 1	

Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
suitable for corrugated tube (internal Ø)	10 mm
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

**Side 2**

Family construction form	free cable end
Stripping length (jacket)	20 mm

**Commercial data**

URL Webshop	<a href="https://shop.murrelektronik.com/7002-12241-2150750">https://shop.murrelektronik.com/7002-12241-2150750</a>
GTIN	4048879585088
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060311
ECLASS-9.1	27060311
ECLASS-10.0.1	27060311
ECLASS-10.1	27060311
ECLASS-11.0	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311
ECLASS-14.0	27060311
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879585088
Packaging unit	1

**Electrical data | Supply**

Operating voltage AC max.	125 V
Operating voltage DC max.	125 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)	I

**Mechanical data | Material data**

Material housing	PUR
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Material screw connection                      Stainless steel 1.4305 (V2A)

#### Mechanical data | Mounting data

Mounting method                                  inserted, screwed, Shaking protection

#### Environmental characteristics | Climatic

Operating temperature min.                      -30 °C

Operating temperature max.                      85 °C

Additional condition temperature range                      depending on cable quality

#### Important installation notes

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 strain relief                                      Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

#### Conformity

Product standard                                      EN IEC 61076-2-101 (M12)

#### Installation | Cable

Cable identification                                  215

Cable Type                                              1

Amount stranding                                      1

Stranding                                                5 wires around core filler twisted

Filler                                                      Yes

Wire arrangement                                      brown, black, blue, white, green-yellow

Cable weight                                           44 g/m

Material wire insulation                              PVC

Amount wires                                           5

Outer diameter insulation                              1,25 mm

Outer diameter tolerance core insulation                      ± 0,05 mm

Shore hardness wire insulation                      45 ± 5 Shore D

Material properties wire insulation                      good machinability

Ingredient freeness wire insulation                      lead-free, cadmium-free, CFC-free, silicone-free

Amount strands (wire)                                  19

Diameter of single wires                              0,15 mm

Conductor crosssection (wire)                      0,34 mm²

Material conductor wire                              Stranded copper wire, bare

Conductor type (wire)                                  Strand class 5

Outer-diameter (jacket)                                  5,2 mm

Tolerance outer diameter (sheath)                      ± 5 %

Material jacket                                           PVC

Shore hardness jacket                                  85 ± 5 Shore A

Freedom from ingredients (jacket)                      lead-free, cadmium-free, CFC-free, silicone-free

Material property (jacket)                              good machinability

Conductor resistance (wire)                              57 Ω/km @ 20 °C

Nominal voltage max.                                  300 V

Withstand voltage (wire - wire)                      2 kV @ 60 s

Withstand voltage (wire - jacket)                      2 kV @ 60 s

Current load capacity (standard)                      to DIN VDE 0298-4

Current load capacity max. (wire)                      4,5 A

Operating temperature min. (static)                      -30 °C

Operating temperature max. (static)                      80 °C

Operating temperature min. (dynamic)                      -5 °C

Operating temperature max. (dynamic)                      80 °C

Flame resistance                                      UL 1581 § 1080, CSA FT1, IEC 60332-1-2

Oil resistance                                           good

Chemical resistance                                      good

Other resistances                                      good resistance to gasoline

Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter