

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

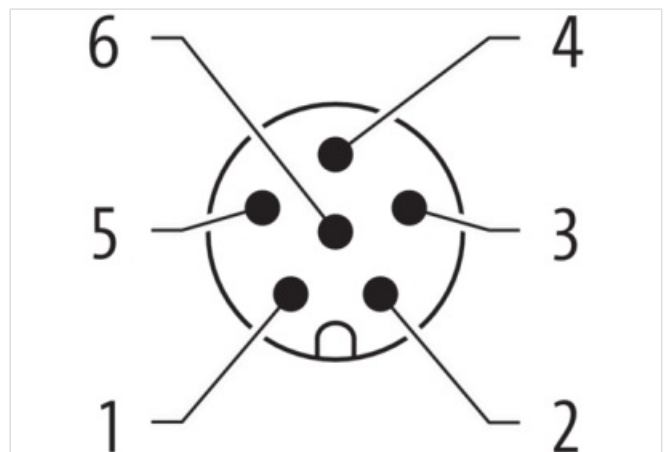
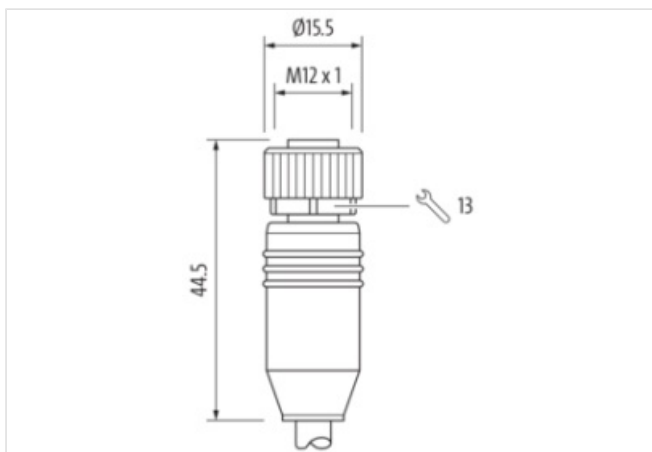
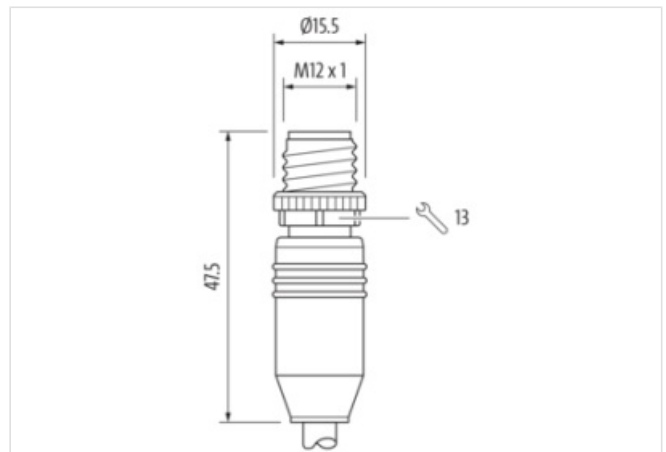
PUR 4x0.5+2x0.25 shielded gn UL/CSA+drag ch. 0.2m

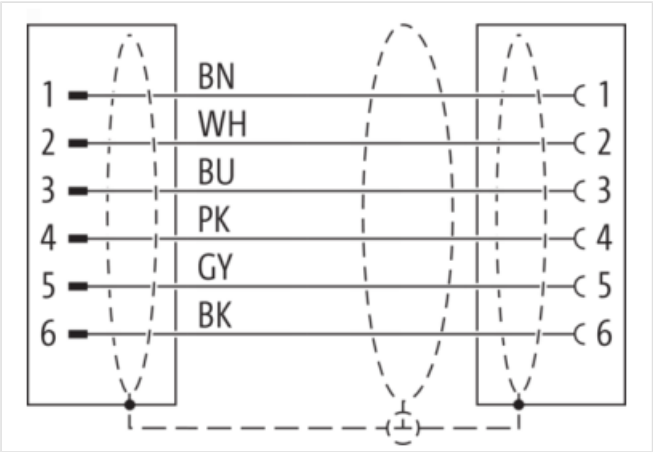
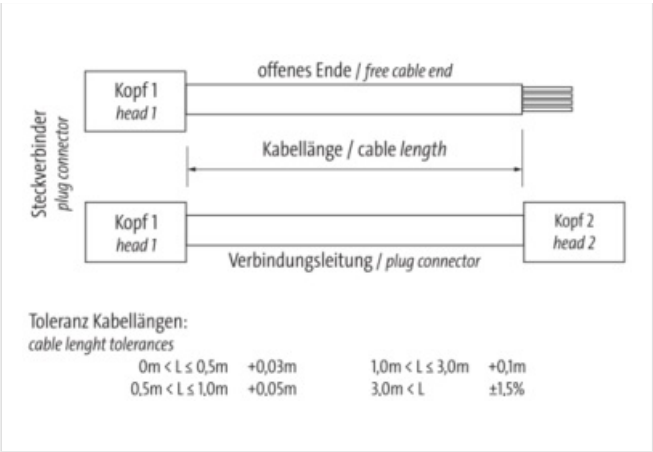
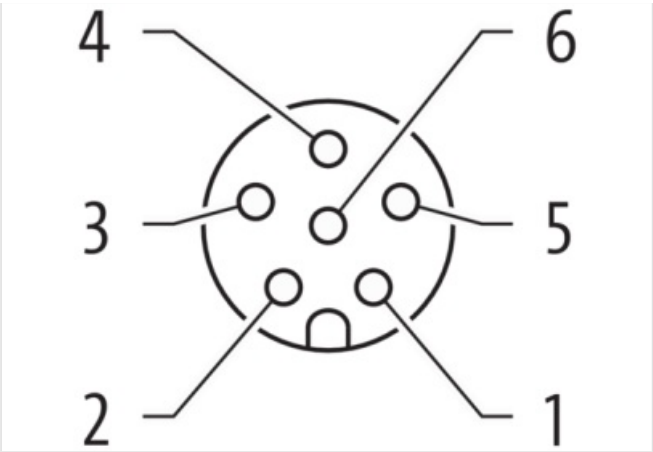
Art.No.: 7000-46041-8020020

Weight: 0.049

Country of origin: HU

Model designation: MSBL0-A-6p2_802_0.20-ZE

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



Product may differ from Image



Header	
Cable length	0.2 m
Side 1	
Family construction form	M12
No. of poles	6
Coding	A
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Side 2	
Family construction form	M12
No. of poles	6
Coding	A
Mounting method	inserted, screwed

Thread	M12 x 1
Tightening torque	0.6 Nm
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-46041-8020020
GTIN	4048879140546
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-7.1	27060307
ECLASS-8.0	27060307
ECLASS-8.1	27060307
ECLASS-9.0	27060307
ECLASS-9.1	27060307
ECLASS-10.0.1	27060307
ECLASS-10.1	27060307
ECLASS-11.0	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ECLASS-14.0	27060307
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
EAN	4048879140546

Electrical data | Supply

Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V

Diagnostics

Status indication LED	no
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Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0.8 kV
Material group (IEC 60664-1)	I

Mechanical data | Material data

Locking material	Zinc die-casting
Coating locking	Nickeled
Material gasket	FKM

Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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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.

Installation | Cable

Function cable	Hybrid, Signal, Data
Amount stranding	1
Stranding	Wires
Amount stranding (type 2)	1
Stranding (type 2)	Wires
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece
Filler	yes
Wire arrangement	(, gray, pink,), blue, white, brown, black
Cable weight	77
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1.4 mm
Outer diameter tolerance core insulation	± 0.05 mm
Shore hardness wire insulation	50
Ingredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Amount strands (wire)	64
Diameter of single wires	0.1 mm
Conductor crosssection (wire)	0.5 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (type 2)	PP
Outer diameter wire insulation (type 2)	1.1 mm
Tolerance outer diameter wire insulation (type 2)	± 0.05 mm
Shore hardness wire insulation (type 2)	50
Ingredient freeness wire insulation (type 2)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Amount wires (type 2)	2
Amount strands wire (type 2)	32
Diameter of single wires (type 2)	0.1 mm
Conductor crosssection wire (type 2)	0.25 mm ²
Material conductor wire (type 2)	Stranded copper wire, bare
Wire conductor type (type 2)	strand class 6
Outer-diameter (jacket)	6.6 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	90
Freedom from ingredients (jacket)	CFC-free, halogen-free, lead-free
Conductor resistance (wire)	39 Ω/km @ 20 °C
Conductor resistance (wire type 2)	79 Ω/km @ 20 °C
Electric inductivity line constant	0.65 mH/km
Electrical capacity line constant (wire - wire)	63,000 pF/km
Isolation resistance	2,000 MΩ × km
Nominal voltage AC max.	300 V
Withstand voltage (wire - wire)	1.5 kV @ 60 s
Withstand voltage (wire - jacket)	1.5 kV @ 60 s
Withstand voltage (wire - shield)	1.2 kV @ 60 s

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: 2025-07-17

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Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6.3 A
Current load capacity min. Wire (type 2)	3.2 A
Min. operating temperature (static)	-50 °C
Max. operating temperature (fixed)	90 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C
Travel speed (C-track)	2 m/s @ 25 °C
Acceleration (C-track)	2 m/s² @ 25 °C
Torsion stress	180 °/m