M12 male 0° / M12 female 0° A-cod. F&B Pro

TPE-S 0.5+0.25 shielded bu UL robot+drag ch. 1m

Art.No.: 7024-46041-5230100
Weight: 0.104
Country of origin: DE
Model designation: MSBL0-A-6p2_523_1.0-ZE-S24

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.

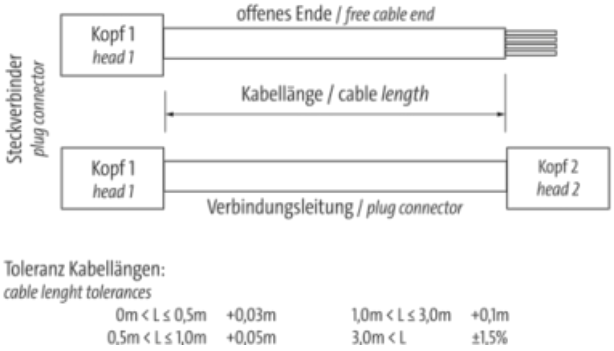
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

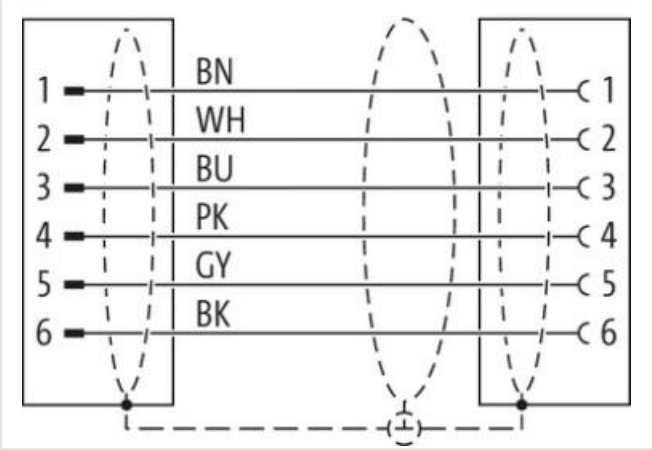
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

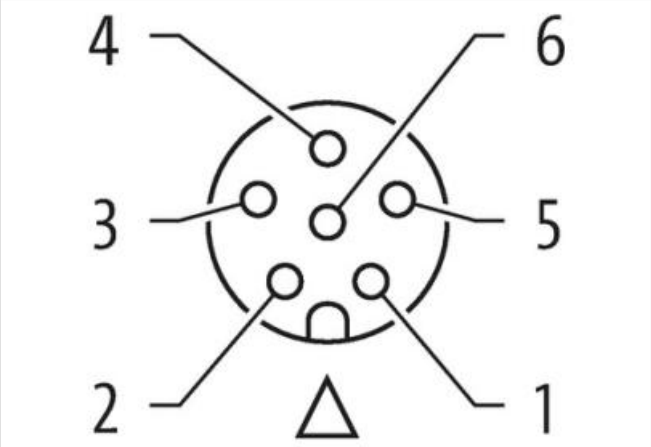
Product details:
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for your application. Further details on request.
Further cable lengths on request.
Plug Connectors for Food & Beverage
Male straight – female straight
M12 F&B Pro
6-pole
Stainless steel 1.4404 (V4A)
without cable sleeves
IP69K
Cube67

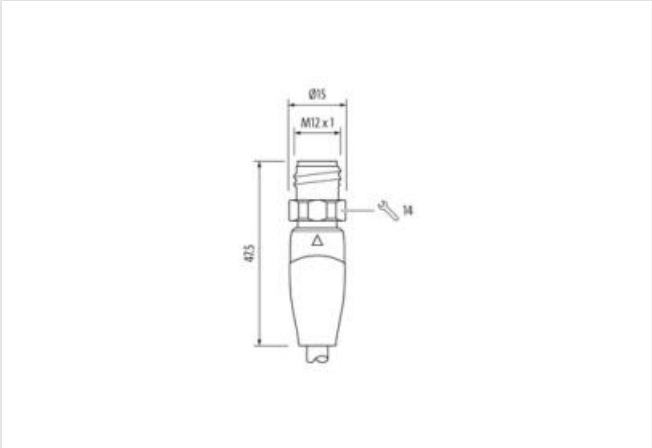
Link to Product

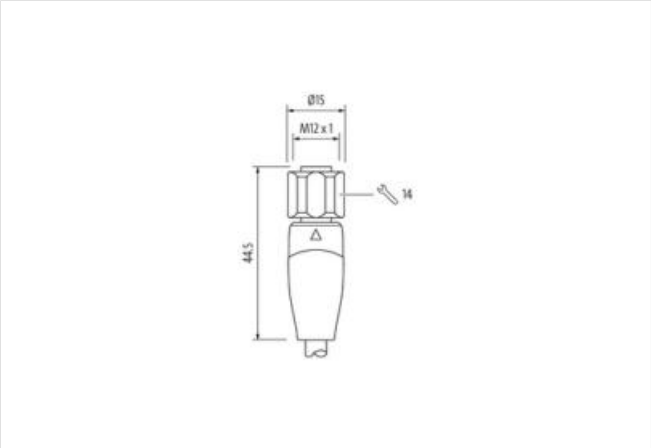
Illustration

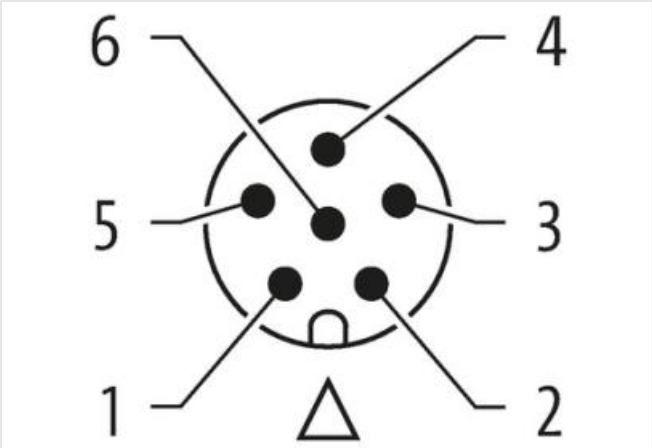












Product may differ from Image

Cable length	1 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A

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Material contact	Copper alloy
No. of poles	6
Degree of protection (EN IEC 60529)	IP65, IP68, IP69K
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
No. of poles	6
Width across flats	SW14
Degree of protection (EN IEC 60529)	IP65, IP68, IP69K
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879791892
EAN	4048879791892
Packaging unit	1
Packaging unit	1
Electrical data | Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Device protection | Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data | Material data	
Material housing	PP
Color contact carrier	ice blue
Material gasket	EPDM
Material contact carrier	PP
Locking material	Stainless steel 1.4404 (V4A)
Mechanical data | Mounting data	
Mounting method	inserted, screwed, Shaking protection

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Environmental characteristics | Climatic	
Operating temperature min.	-40 °C
Operating temperature max.	105 °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.
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12), FDA conform
Installation | Cable	
wire arrangement	gray, pink, (blue, white, brown, black)
Cable identification	523
Function cable	Hybrid, Signal, Data
Jacket Color	blue
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Stranding (type 2)	4 wires with Stranding combination with 3 Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece
Filler	yes
wire arrangement	gray, pink, (blue, white, brown, black)
Cable weigth	82,5 g/m
Material jacket	TPE-S
Shore hardness jacket	47 ± 5 Shore D
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	7,9 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1,5 mm
Outer diameter tolerance core insulation	± 5 %
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	28
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,5 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Data)	PP
Outer diameter wire insulation (Data)	1,35 mm
Tolerance outer diameter wire insulation (data)	± 5 %
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Amount wires (Data)	2
Amount strands wire (Data)	32
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	0,25 mm²
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	7,2 A

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Current load capacity min. Wire (Data)	4,5 A
Characteristic impedance	102 Ω @ 1 MHz
Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electrical resistance coating wire (Data)	78 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	3 kV @ 60 s
Electric inductivity line constant	0,58 mH/km
Electrical capacity line constant (wire - wire)	55 pF/km
Electrical capacity line constant (wire - shield)	105 pF/km
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
AC withstand voltage (wire - shield)	3 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	105 °C
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	105 °C
Flame resistance	IEC 60332-2-2 | UL 1581 § 1100 FT2 | UL 1581 § 1090
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)	4 Mio. @ 20 °C
Traversing distance (C-track)	10 m @ 20 °C
Travel speed (C-track)	3 m/s @ 20 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m