

#### M12 Power male 90° / female 90° S-cod.

PUR 4x1.5 bk UL/CSA+drag ch. 1.5m

Art.No.: 7000-P6271-P160150

Weight: 0.217 Country of origin: DE

Model designation: MSWDSL0-WCS-TP16\_1.5

#### Advantages of our M12 power connectors:

Our M12 power connectors are ideal for supplying power to your industrial applications and are specially optimised for harsh environments.

The S-coded connectors are available in 4-pin versions and offer a current carrying capacity of 12A per pin at 630V AC. They are ideal for supplying power to linear motors, stepper motors, frequency inverters and control and lighting systems.

All Murrelektronik connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability. The contacts are gold-plated, which ensures excellent conductivity. Thanks to the high degree of protection IP67 and the integrated protective conduit connection, they are ideal for demanding industrial environments. They are also vibration-resistant - this is guaranteed by the integrated vibration protection.

The M12 power connectors are designed in accordance with the IEC 61076-2-111 standard and UL-approved in accordance with 2237 (PVVA - E492831). Our connectors are resistant to oils and cooling lubricants. However, resistance to aggressive media should be tested for each specific application.

Different cable lengths are available <u>on request</u>. Are you missing technical information? Please use our technical <u>dictionary</u>, where you will find explanations of coding and other technical details.

## **Product details:**

Power Male 90° – female 90° M12 – M12, 4-pole S-coded

with cable sleeves

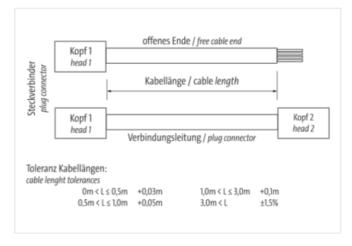
Plastic housings with good resistance against chemicals and oils.

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

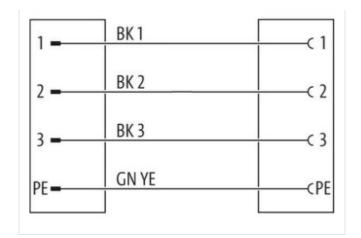
# **Link to Product**

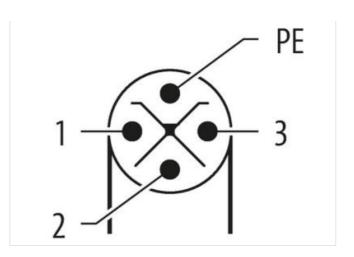
### Illustration

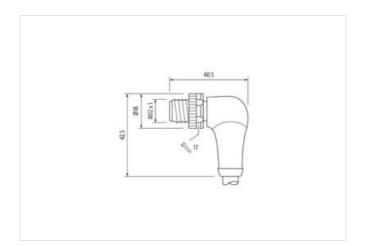


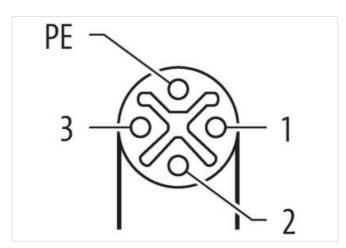


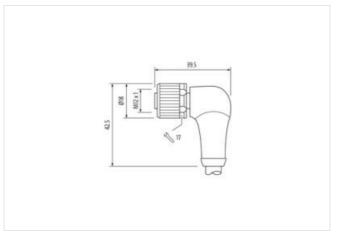
stay connected

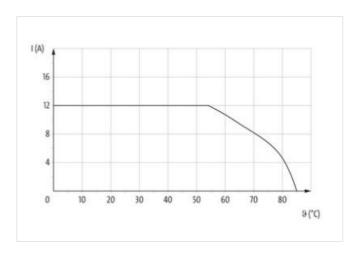












Product may differ from Image











Cable length

1,5 m

Side 1

Tightening torque

0,6 Nm



Mounting method inserted, screwed Coating contact gold plated Family construction form M12P Thread M12 x 1 suitable for corrugated tube (internal Ø) 12 mm S Coding Material contact Copper alloy No. of poles 4 Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12P Thread M12 x 1 Coding S Material contact Copper alloy No. of poles 4 Commercial data ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060327 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879728348 Packaging unit Electrical data | Supply 600 V Operating voltage AC max. 12 A Current operating per contact max. **Diagnostics** Status indication LED no Installation | Connection Width across flats SW17 Device protection | Electrical Degree of protection (EN IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 6 kV Material group (IEC 60664-1) Mechanical data | Material data Material housing **PUR** Coating locking Nickeled Material gasket FKM Locking material Zinc die-casting Mechanical data | Mounting data Mounting method inserted, screwed

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: 2025-05-07

Environmental characteristics | Climatic

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Operating temperature min.	-25 °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.
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.
Conformity	
Product standard	IEC 61076-2-111
	120 010/02 111
Installation   Cable	
wire arrangement	green-yellow, black 3, black 2, black 1
Cable identification	P16
Cable Type	3
Function cable	Power
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires twisted
wire arrangement	green-yellow, black 3, black 2, black 1
Cable weigth	114,4 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)	7,2 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	2,3 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	60 ± 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)	84
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	1,5 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	1000 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	14,4 A
Electrical resistance line constant wire	13,3 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	10 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	10 kV @ 60 s
Min. operating temperature (static)	-50 °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   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404

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Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	5 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min