

**M12 male 0° X-cod. / M12 male 0° D-cod. shielded**

PUR 1x4xAWG24 shielded gn UL/CSA+drag ch. 0.5m

Art.No.: 7000-51701-5850050

Weight: 0.066 kg

Country of origin: CZ

Model designation: MSXAL0-DA-\*585\_0.5-ZS

**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:**

Ethernet CAT5e

Male straight – male straight

M12 – M12, 4-pole

Shielded

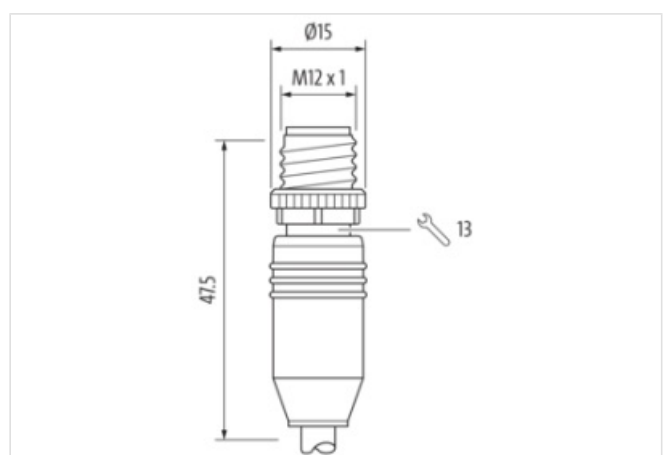
with cable sleeves

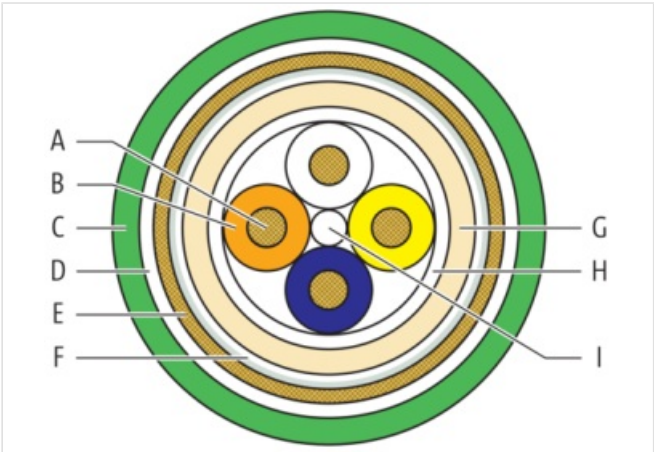
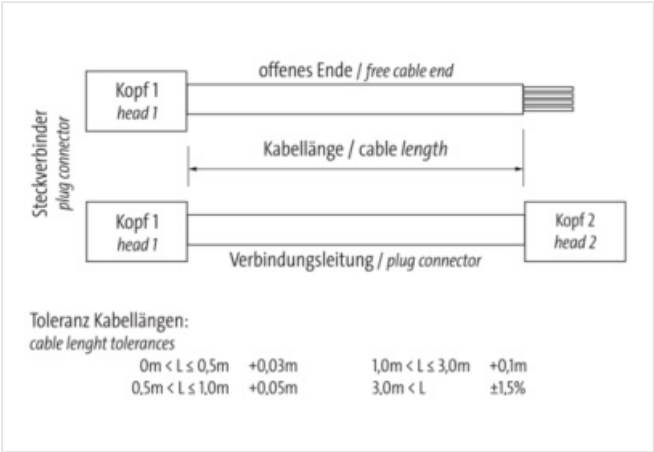
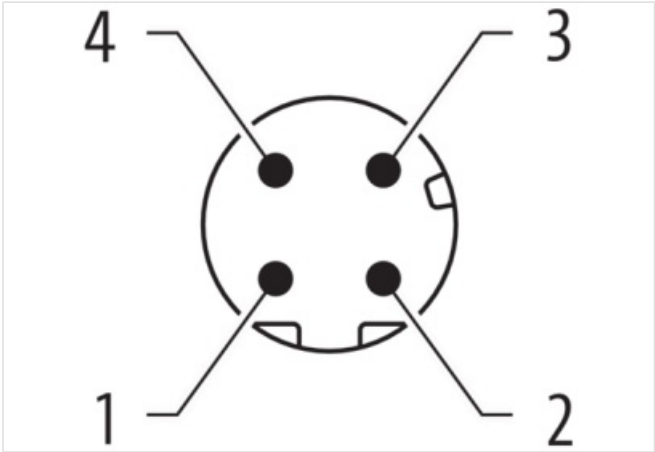
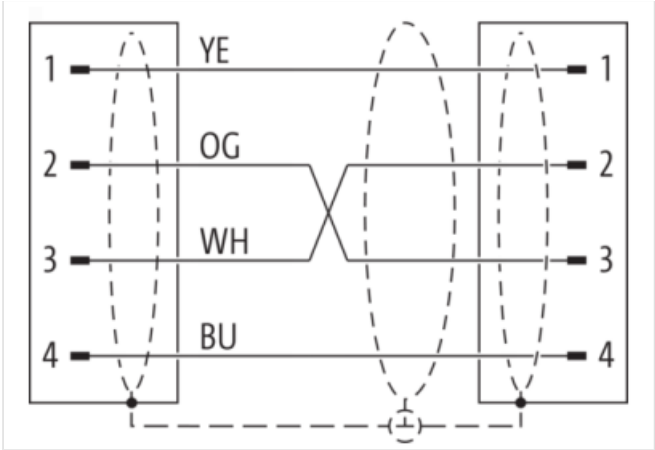
maximum length at channel transmission corresponds to 70 m

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



Header	
Material short text	MSXAL0-DA-*585_0.5-ZS
Cable length	0,50 m

**Side 1**

Family construction form	M12
No. of poles	4
Coding	X
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

**Side 2**

Family construction form	M12
No. of poles	4
Coding	D
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

**Commercial data**

URL Webshop	<a href="https://shop.murrelektronik.com/7000-51701-5850050">https://shop.murrelektronik.com/7000-51701-5850050</a>
GTIN	4048879869904
ECLASS-6.0	27060307
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	EC002599
ETIM-6.0	EC002599
ETIM-7.0	EC002599
ETIM-8.0	EC002599
customs tariff number	85444290
EAN	4048879869904
Packaging unit	1

<b>Electrical data   Supply</b>	
Operating voltage DC max.	60 V
Current operating per contact max.	0,5 A
<b>Industrial Communication</b>	
Data transmission rate max.	100 Mbit/s
Transfer parameters	CAT5e, Class D (ISO/IEC 11801)
<b>Diagnostics</b>	
Status indication LED	No
<b>Installation   Pin assignment</b>	
Configuration	partly used
<b>Device protection   Electrical</b>	
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
<b>Mechanical data</b>	
Contour for corrugated hose	without
<b>Mechanical data   Material data</b>	
Locking material	Zinc die-casting
Coating locking	Nickel
<b>Mechanical data   Mounting data</b>	
Mounting method	inserted, screwed, Shaking protection
<b>Environmental characteristics   Climatic</b>	
Operating temperature min.	-30 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
<b>Important installation notes</b>	
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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
<b>Conformity</b>	
Product standard	EN/IEC 61076-2-109 (X-coded), EN IEC 61076-2-101 (D-coded)
<b>Installation   Cable</b>	
Cable identification	585
Amount stranding	1
Stranding	Wires
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Foil
Filler	Yes
Cable weight	62 g/m
Material wire insulation	PE
Amount wires	4
Outer diameter insulation	1,2 mm
Outer diameter tolerance core insulation	± 0,05 mm
Shore hardness wire insulation	65 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	7

Diameter of single wires	32 AWG
Conductor crosssection (wire)	24 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	6 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	90 ± 3 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Material inner jacket	TPE-V
Color (inner jacket)	white
Conductor resistance (wire)	85 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	50 pF/km
Isolation resistance	5.000 MΩ × km
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	2,4 A
Characteristic impedance	100 Ω 15 MHz
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Other resistances	resistant to hydrolysis, resistant to microbes
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	12 × Outer diameter
No. of bending cycles (C-track)	3.5 Mio.
Traversing distance (C-track)	5 m
Travel speed (C-track)	3.3 m/s
Acceleration (C-track)	2 m/s²