

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

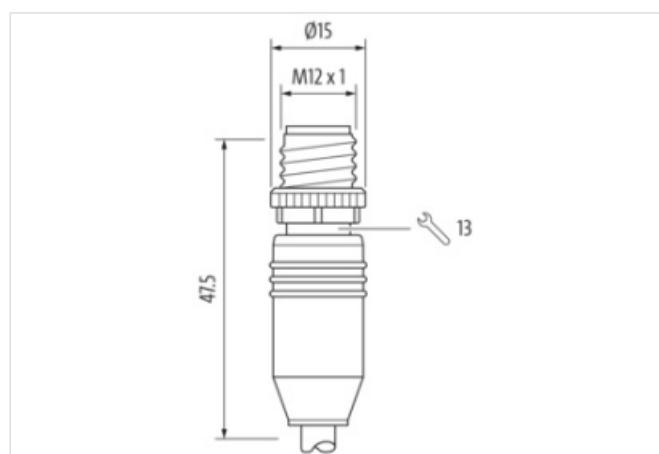
with cable sleeves

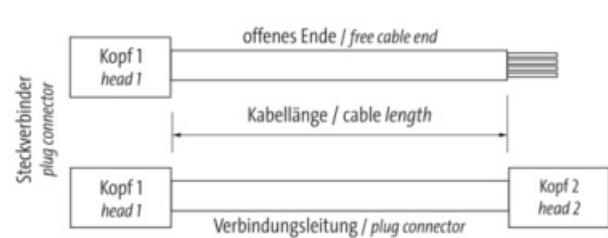
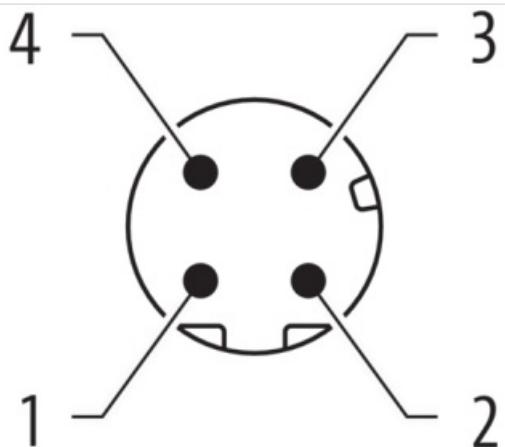
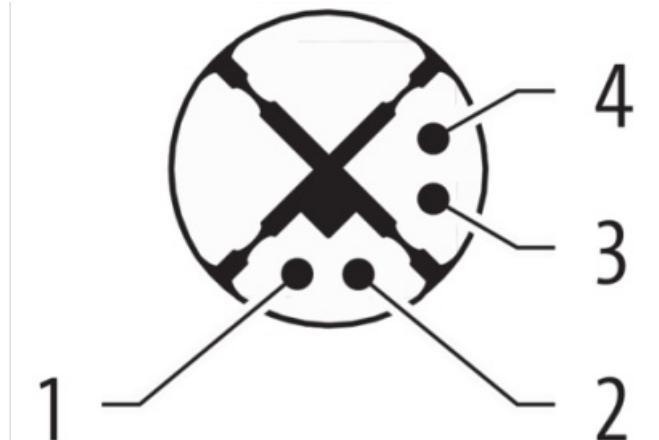
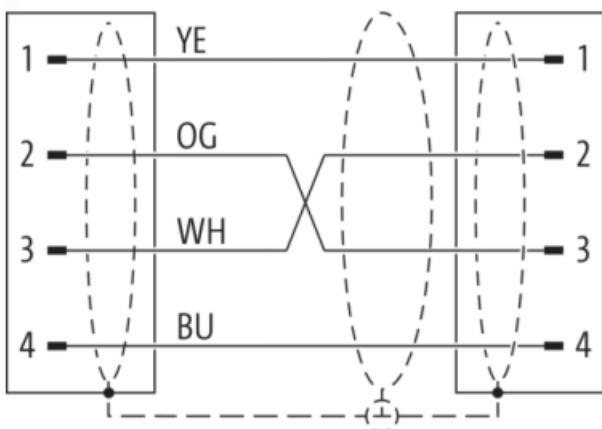
maximum length at channel transmission corresponds to 70 m

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


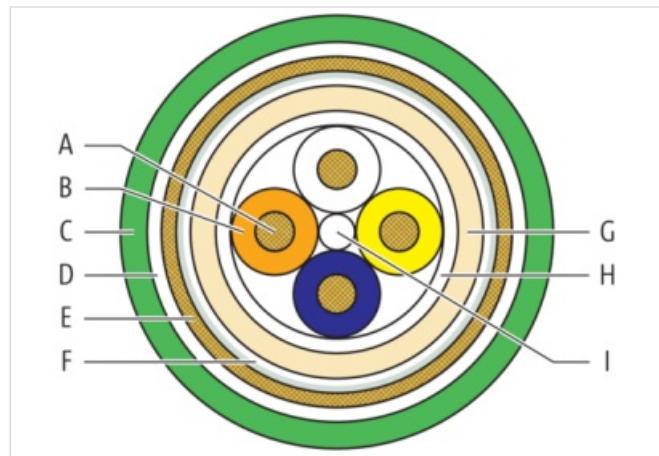


Toleranz Kabellängen:
cable length tolerances

0m < L ≤ 0,5m	+0,03m	1,0m < L ≤ 3,0m	+0,1m
0,5m < L ≤ 1,0m	+0,05m	3,0m < L	±1,5%



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	https://shop.murrelektronik.com/7000-51701-5850050
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

Electrical data Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	0,5 A
Industrial Communication	
Data transmission rate max.	100 Mbit/s
Transfer parameters	CAT5e, Class D (ISO/IEC 11801)
Diagnostics	
Status indication LED	No
Installation Pin assignment	
Configuration	partly used
Device protection Electrical	
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
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Locking material	Zinc die-casting
Coating locking	Nickel
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 61076-2-109 (X-coded), EN IEC 61076-2-101 (D-coded)
Installation Cable	
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/s ²