

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

PUR 4x2xAWG24 shielded gn UL+drag ch. 1.5m

Art.No.: 7000-51005-8260150

Weight: 0.210 kg

Country of origin: DE

Model designation: MSXAL0-XA-08D826_1.5-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:

Male straight – male straight

M12 – M12, 8-pole

X-coded

Shielded

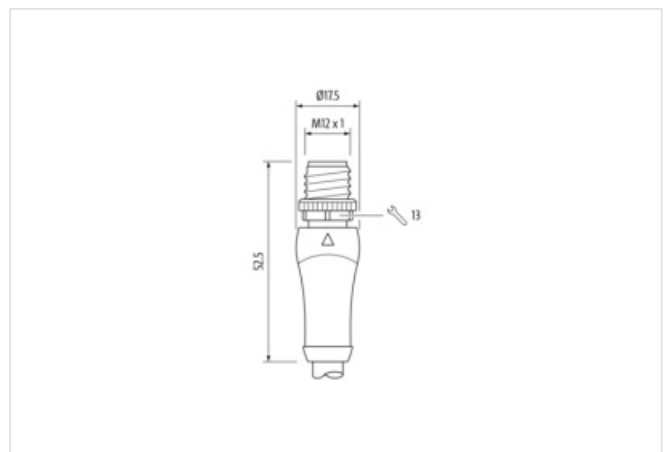
with cable sleeves

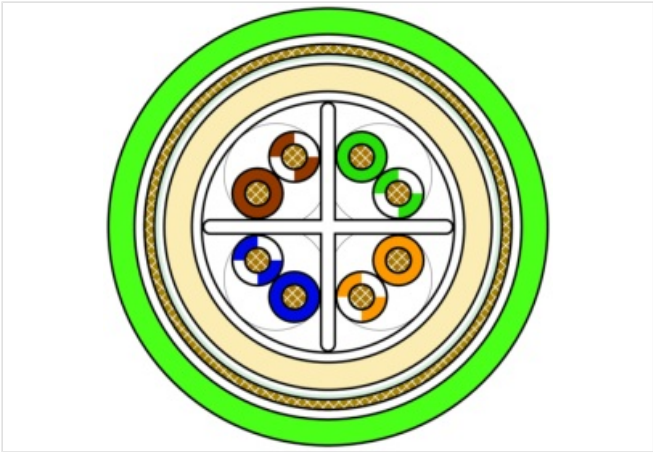
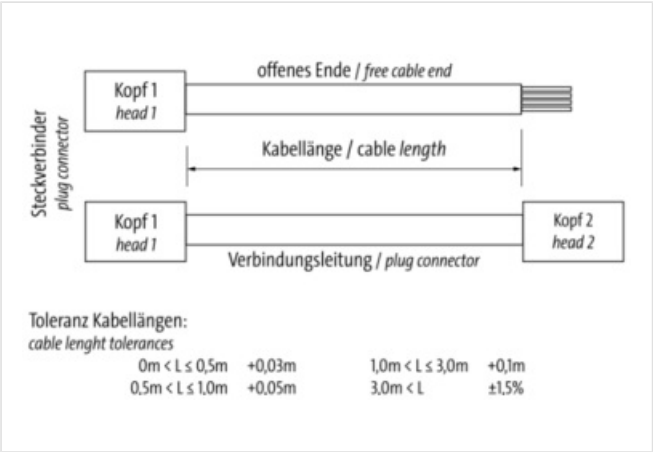
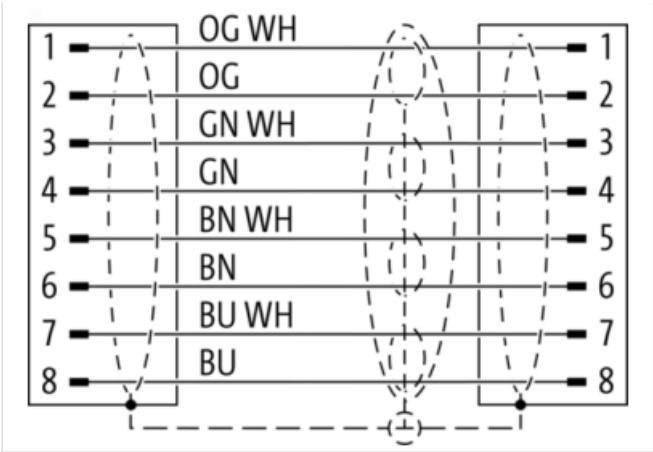
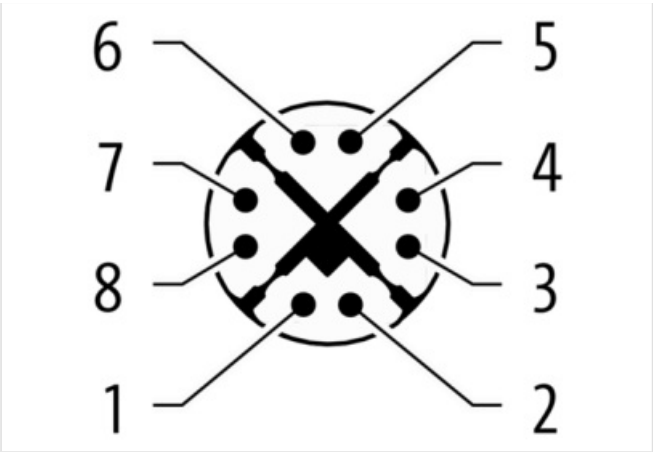
maximum length for channel transmission corresponds to 45m

Good chemical and oil resistance (oil resistance does not apply to use with PVC cable)

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**



Product may differ from Image

Cable length	1,50 m
Side 1	
Family construction form	M12
No. of poles	8
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
suitable for corrugated tube (internal Ø)	12 mm
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP65
Side 2	
Family construction form	M12

No. of poles	8
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
suitable for corrugated tube (internal Ø)	12 mm
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP65

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-51005-8260150
GTIN	4048879797870
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
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	EC002599
ETIM-6.0	EC002599
ETIM-7.0	EC002599
ETIM-8.0	EC002599
customs tariff number	85444290
EAN	4048879797870
Packaging unit	1

Electrical data | Supply

Operating voltage AC max.	50 V
Operating voltage DC max.	60 V
Operating current max.	0,5 A

Industrial Communication

Data transmission rate max.	10 Gbit/s
Transfer parameters	CAT6A

Diagnostics

Status indication LED	No
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Device protection | Electrical

Additional condition protection degree	inserted, screwed
Pollution Degree	3

Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Screw connection	Zinc die-casting
Coating of fitting	nickel plated
Mechanical data Mounting data	
Mounting method	inserted, screwed
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 (M12)
Installation Cable	
Stranding	4 × 2 wires stranded
Stranding (type 2)	1 × 4 stranding combinations stranded around insulation element
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
Filler	Insulation element
Wire arrangement	(BN, BNWH), (GN, GNWH), (OG, OGWH), (BU, BUWH)
Shield	shielded
Material wire insulation	PP
Amount wires	8
Outer diameter insulation	1.05 mm ± 0.05 mm
Conductor crosssection (wire)	24 AWG
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	7
Material jacket	PUR
Outer-diameter (jacket)	8.9 mm ± 5 %
Jacket Color	green / RAL 6018
Material inner jacket	TPE-V
Color (inner jacket)	natural
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Conductor resistance (wire)	87.6 Ω/km @ 20 °C
Nominal voltage max.	125 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 max. (wire)	3 A
Current load capacity (standard)	to DIN VDE 0298-4
Electrical capacity line constant (wire - wire)	52 pF/m
Isolation resistance	5 GΩ × km
Characteristic impedance	100 Ω ± 15 %
Cable type	Industrial Ethernet Profinet Typ C, CAT6A

Operating temperature (static)	-40 °C ... 80 °C
Operating temperature (dynamic)	-20 °C ... 70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060, UL 1581 § 1090, UL 1581 § 1100
Oil resistance	IEC 60811-404, IRM 901, IRM 902
Ozone resistance	EN 50396
UV resistance	UL 1581 § 1200 @ 300 h
Other resistances	good resistance to saturated hydrocarbons (diesel, kerosene, petrol ether), resistant to hydrolysis, resistant to microbes
Notes	application-related testing
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	15 × Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	3 m/s² @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 180 °/m