

M12 male 0° / M12 male 90° X-cod. 180° shielded

PUR 4x2xAWG26 shielded gn UL/CSA 1m

Art.No.: 7000-51012-7900100

Weight: 0.071 kg

Country of origin: CZ

Model designation: MSXCL0-XA-08D790_1.0-ZS-180°

Male straight – male 90°

M12 – M12, 8-pole

X-coded

Shielded

Attention: Contact carrier turned to 180°!

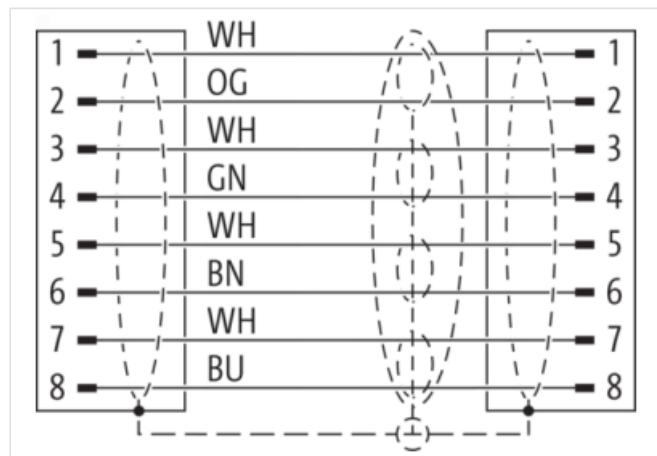
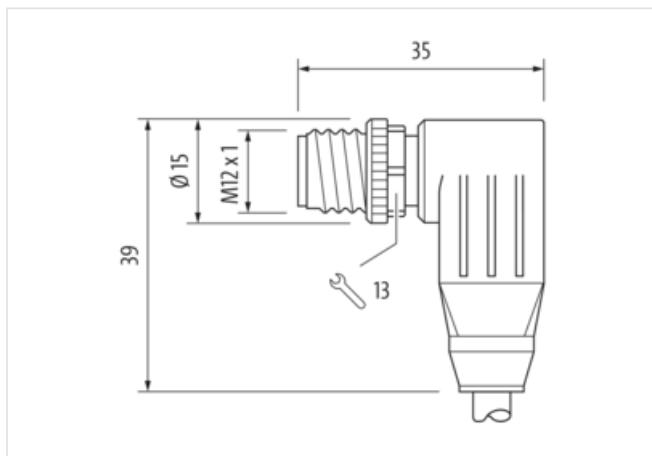
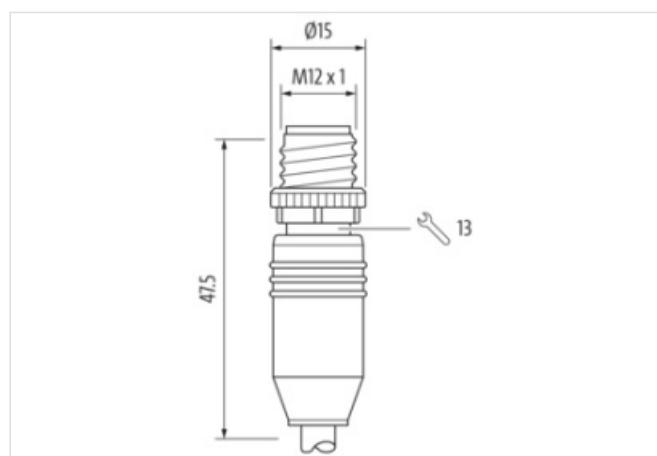
Transmission properties with channel transmission up to 50 m

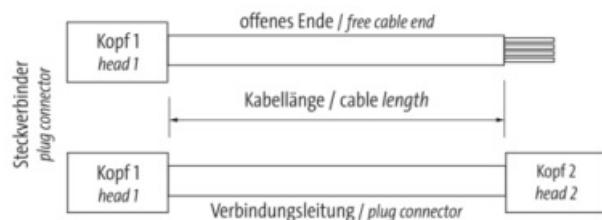
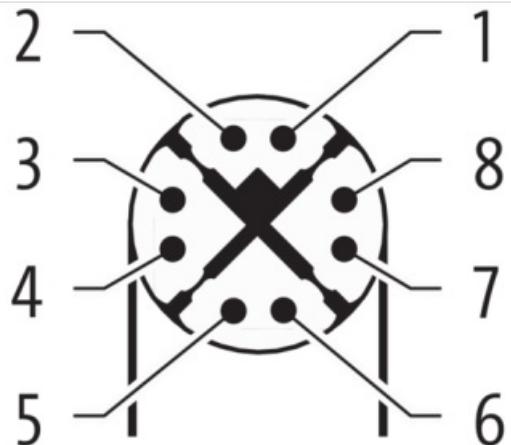
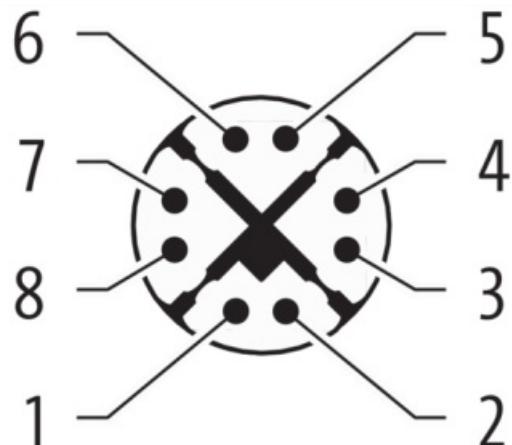
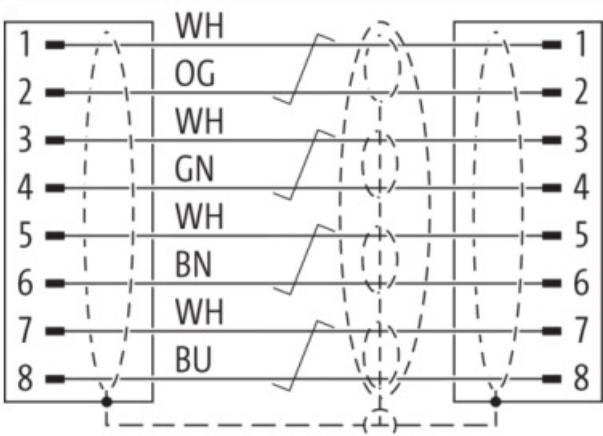
Product fulfills requirements according to UN/ECE R118

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.

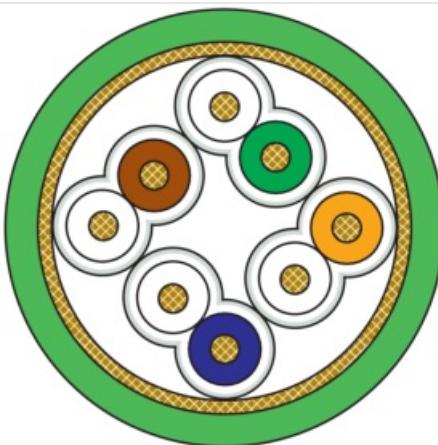
[Link to Product](#)[Illustration](#)



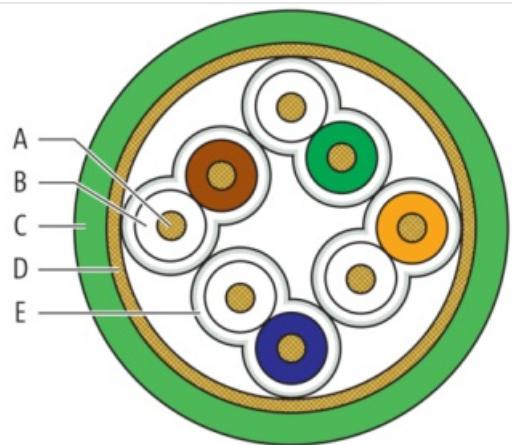
Toleranz Kabellängen:
cable length tolerances

0m < L ≤ 0,5m +0,03m
0,5m < L ≤ 1,0m +0,05m

1,0m < L ≤ 3,0m +0,1m
3,0m < L ±1,5%



Product may differ from Image



Header

Material short text	MSXCL0-XA-08D790_1.0-ZS-180°
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Cable length	1,00 m
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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
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67

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	angled
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-51012-7900100
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GTIN	4048879913089
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ECLASS-6.0	27061801
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ECLASS-6.1	27060307
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ECLASS-7.0	27060307
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ECLASS-7.1	27060307
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ECLASS-8.0	27060307
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ECLASS-8.1	27060307
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ECLASS-9.0	27060307
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ECLASS-9.1	27060307
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ECLASS-10.0.1	27060307
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ECLASS-10.1	27060307
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ECLASS-11.0	27060307
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ECLASS-11.1	27060307
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ECLASS-12.0	27060307
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ECLASS-13.0	27060307
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ECLASS-14.0	27060307
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ETIM-5.0	EC002599
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ETIM-6.0	EC002599
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ETIM-7.0	EC002599
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ETIM-8.0	EC002599
customs tariff number	85444290
EAN	4048879913089
Packaging unit	1

Electrical data | Supply

Operating voltage AC	50 V
Operating voltage DC	60 V
Current operating per contact max.	0,5 A

Industrial Communication

Data transmission rate max.	10 Gbit/s
Transfer parameters	CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)

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
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Mechanical data | Material data

Color housing	black
Material screw connection	Zinc die-casting
Coating of fitting	nickel plated

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)
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Installation | Cable

Cable identification	790
Function cable	Data
Amount stranding	4
Stranding	2 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	4 stranding combinations stranded
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Pair shielding (type)	Metal foil
Banding	Foil
Cable weight	48 g/m
Material wire insulation	PE
Amount wires	8
Outer diameter insulation	1,05 mm
Outer diameter tolerance core insulation	- 0,02 mm
Shore hardness wire insulation	65 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free

Amount strands (wire)	7
Diameter of single wires	34 AWG
Conductor crosssection (wire)	26 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	6,4 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	89 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Conductor resistance (wire)	140 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	44.000 pF/km
Isolation resistance	5.000 MΩ × km
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 (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	2 A
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	EN 50396
Other resistances	resistant to microbes, MUD-resistant (NEK 606)
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter