

M12 male 0° D-cod. / RJ45 male 0° shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 10m

Art.No.: 7000-44711-7961000

Weight: 0.719 kg

Country of origin: HU

Model designation: MSRAL0-DA-T796_10.0-ZS

Ethernet CAT5

Male straight – male straight

M12 – RJ45, 4-pole

D-coded

Shielded

with cable sleeves

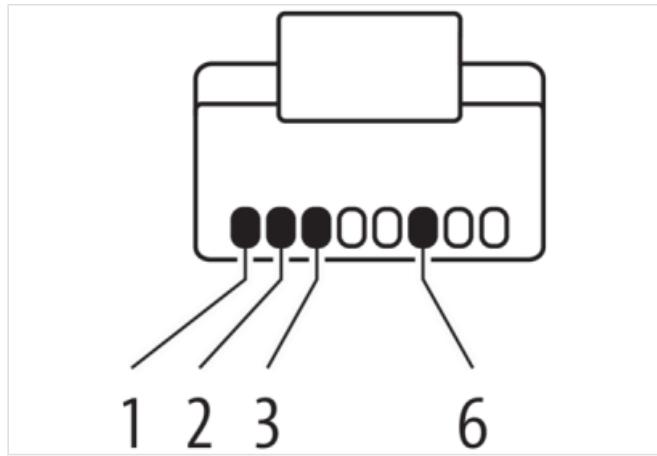
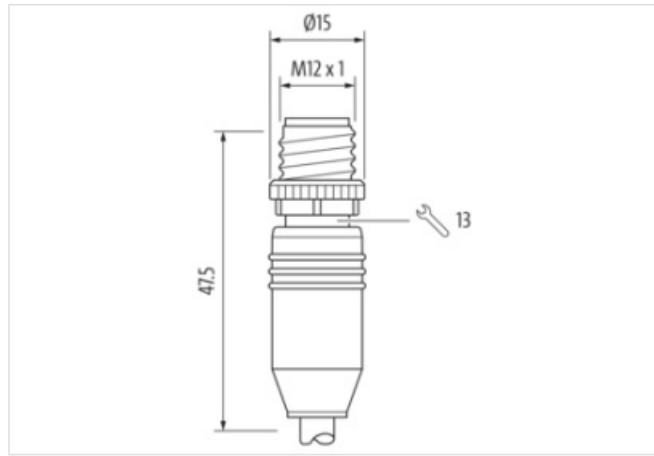
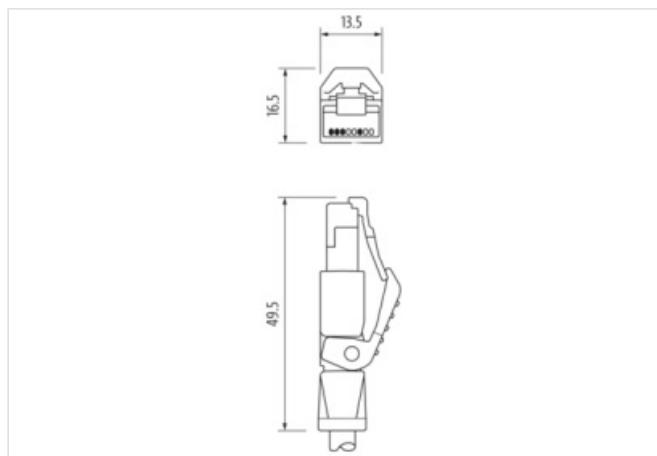
maximum length at channel transmission corresponds to 100 m

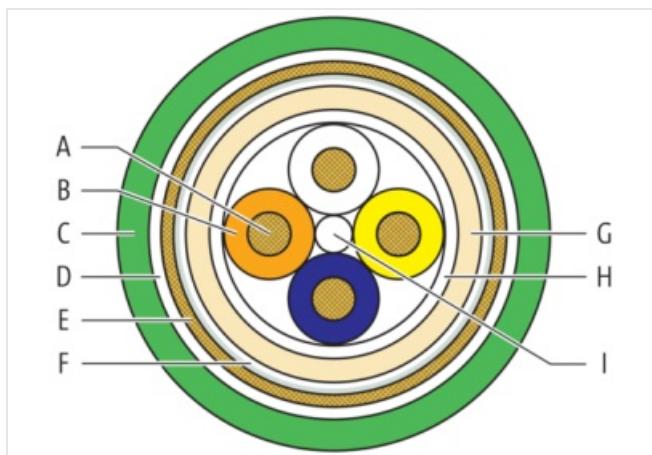
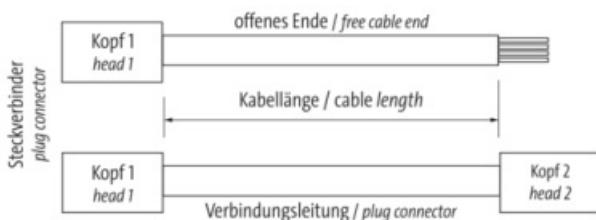
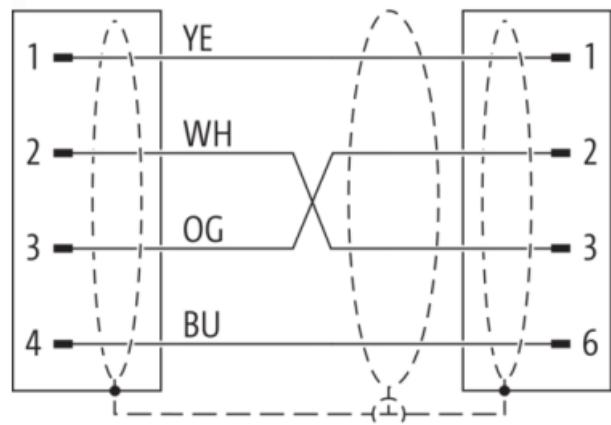
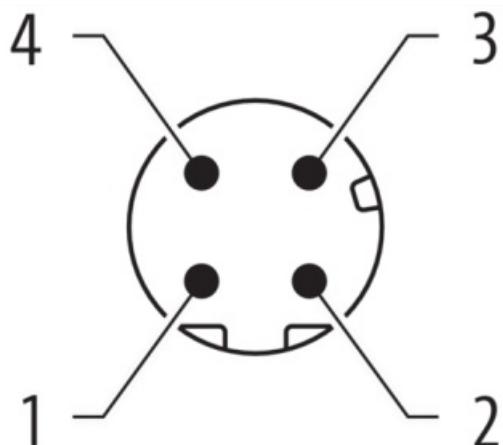
The resistance to aggressive media should be individually tested for your application. Further details on request.

Plastic housings with good resistance against chemicals and oils.

Further cable lengths on request.

Product fulfills requirements according to UN/ECE R118

[Link to Product](#)
Illustration




Product may differ from Image

**Header**

Material short text

MSRAL0-DA-T796_10.0-ZS

Cable length

10,00 m

Side 1

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

Side 2

Family construction form	RJ45
No. of poles	4
Gender	male
Mounting method	pluggable
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP20

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-44711-7961000
GTIN	4048879140874
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	4048879140874
Packaging unit	1

Electrical data | Supply

Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A

Industrial Communication

Data transmission rate max.	100 Mbit/s
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Transfer parameters

CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)

Industrial communication | Ethernet functionality

duplex Full duplex

Device protection | Electrical

Additional condition protection degree inserted, screwed

Pollution Degree 3

Rated surge voltage 1 kV

Material group (IEC 60664-1) I

Mechanical data

Contour for corrugated hose without

Mechanical data | Material data

Material screw connection Zinc die-casting

Coating of fitting Nickeled

Locking material PA

Environmental characteristics | Climatic

Operating temperature min. -30 °C

Operating temperature max. 85 °C

Additional condition temperature range depending on cable quality

Important installation notesNote 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 61076-2-101 (M12), EN IEC 60603-7 (RJ45)

Installation | Cable

Cable identification 796

Function cable Data

Amount stranding 1

Stranding 1 x 4 wires around core filler star-shaped twisted

Cable shielding (type) copper braid, tinned

Cable shielding (coverage) 85 %

Banding Foil, Fleece

Filler Yes

Cable weight 63 g/m

Material wire insulation PE

Amount wires 4

Outer diameter insulation 1,4 mm

Outer diameter tolerance core insulation ± 0,05 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 30 AWG

Conductor crosssection (wire) 22 AWG

Material conductor wire Stranded copper wire, bare

Outer-diameter (jacket) 6,7 mm

Tolerance outer diameter (sheath) ± 5 %

Material jacket PUR

Shore hardness jacket 89 5 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 FRNC

Color (inner jacket)	natural
Conductor resistance (wire)	55.4 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	50.000 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)	4,8 A
Characteristic impedance	100 Ω 15 %
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Operating temperature min. (drag chain)	-30 °C
Operating temperature max. (drag chain)	70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1090, UL 1581 § 1100
Oil resistance	IEC 60811-404, IRM 901, NEMA WC55
Ozone resistance	IEC 60811-403
UV resistance	UL 1581 § 1200
Other resistances	resistant to hydrolysis, resistant to microbes, MUD-resistant (NEK 606)
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	12 × Outer diameter
No. of bending cycles (C-track)	3 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3.3 m/s @ 25 °C
Acceleration (C-track)	2 m/s² @ 25 °C
No. of torsion cycles	1 Mio. @ 25 °C
Torsion stress	180 °/m
Torsion speed	35 cycles/min