

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

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

Art.No.: 7000-44711-8000100

Weight: 0.107 kg

Country of origin: DE

Model designation: MSRAL0-DA-T800_1.0-ZS

Ethernet CAT5

Male straight – male straight

M12 – RJ45, 4-pole

D-coded

Shielded

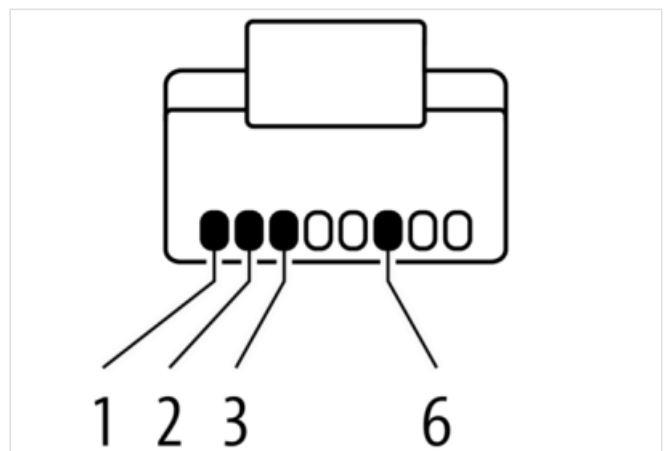
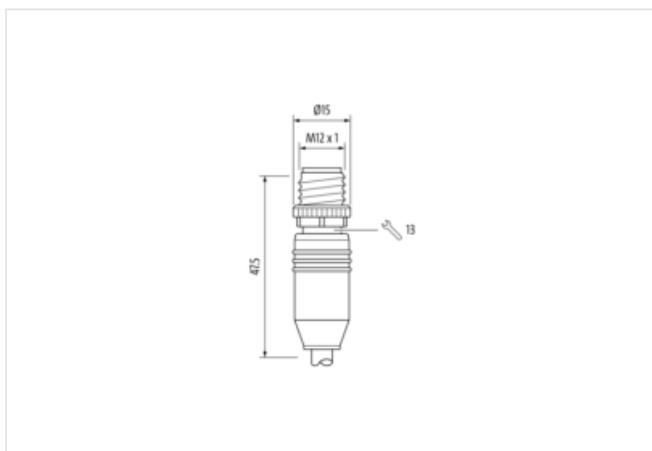
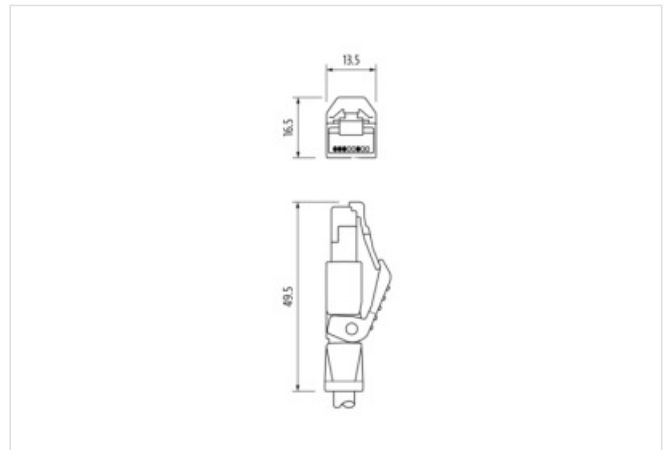
with cable sleeves

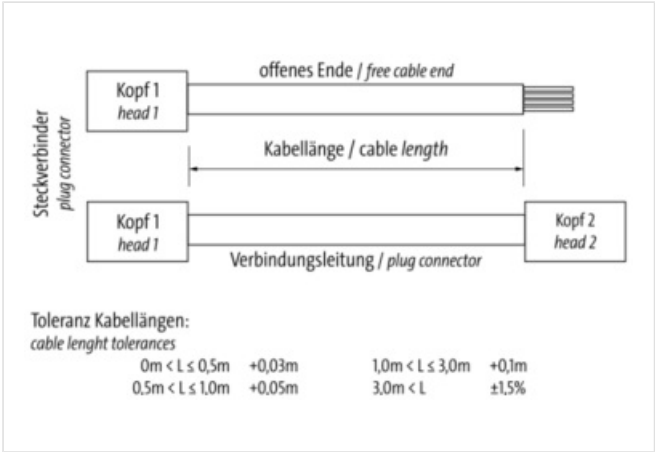
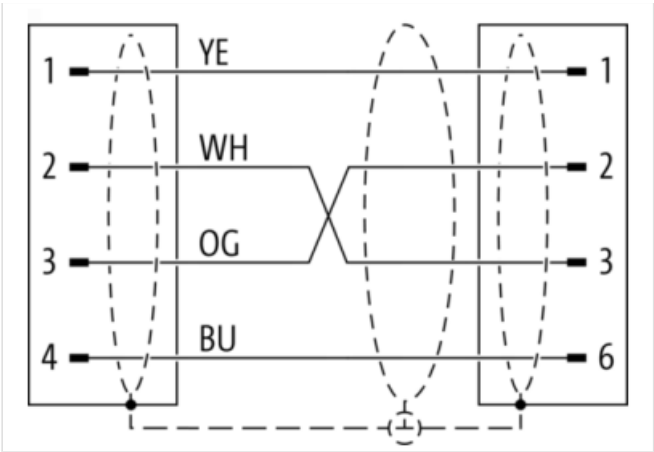
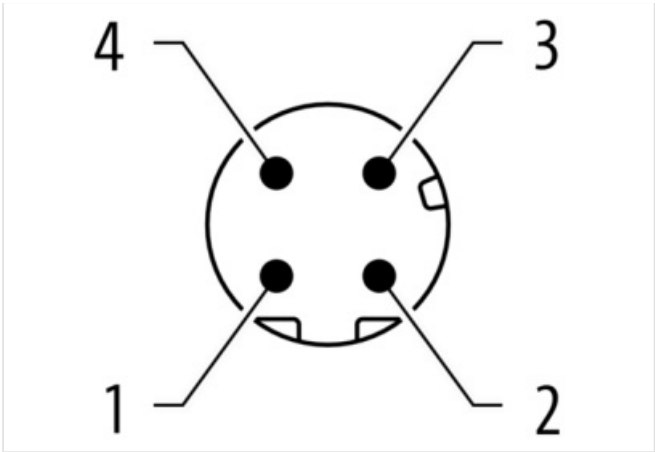
maximum length at channel transmission corresponds to 100 m

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.

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



Product may differ from Image



Cable length 1,00 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/7000-44711-8000100
GTIN	4048879735117
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
ETIM-9.0	EC002599
ETIM-10.0	EC002599
customs tariff number	85444290
EAN	4048879735117
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
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

Screw connection	Zinc die-casting
------------------	------------------

Coating of fitting	Nickeled
Locking material	PA
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 61076-2-101 (M12), EN IEC 60603-7 (RJ45)
Installation Cable	
Cable identification	800
Function cable	Data
Cable weight	67 g/m
UL AWM Style	2571 / 10578
Stranding	1 × 4 wires around core filler star-shaped twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Foil
Filler	Yes
Wire arrangement	OG, WH, YE, BU
Shield	shielded
Cable type	Industrial Ethernet Profinet Typ C, CAT5e
Material wire insulation	PE
Amount wires	4
Outer diameter insulation	1.53 mm ± 0.05 mm
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	7 x 30 AWG
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Material jacket	PVC
Outer-diameter (jacket)	6.6 mm ± 5 %
Jacket Color	green / RAL 6018
Material inner jacket	FRNC
Color (inner jacket)	natural
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Conductor resistance (wire)	55 Ω/km @ 20 °C
Nominal voltage max.	60 V
Withstand voltage (wire - wire)	1 kV @ 60 s
Withstand voltage (wire - jacket)	1 kV @ 60 s
Withstand voltage (wire - shield)	1 kV @ 60 s
Current load capacity max. (wire)	4,8 A
Current load capacity (standard)	to DIN VDE 0298-4
Electric capacitance	55.000 pF/km
Isolation resistance	2.000 MΩ × km

Characteristic impedance	100 $\Omega \pm 15\%$ @ 1 MHz
Loop resistance	124 Ω/km
Operating temperature (static)	-30 °C ... 80 °C
Operating temperature (dynamic)	-10 °C ... 70 °C
Operating temperature (drag chain)	-10 °C ... 70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060, UL 1581 § 1061
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	EN 50396
UV resistance	UL 1581 § 1200
Notes	application-related testing
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3.3 m/s @ 25 °C
Acceleration (C-track)	2 m/s ² @ 25 °C