

RJ45 male 0° / RJ45 male 0° shielded

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

Art.No.: 7000-74301-6591000

Weight: 0.832 kg

Country of origin: DE

Model designation: MSRAL0-RA-8p4c659_10.0

Ethernet CAT5

Male straight – male straight

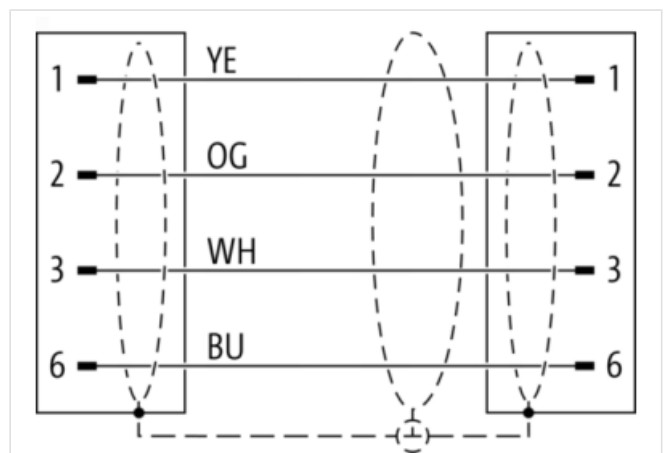
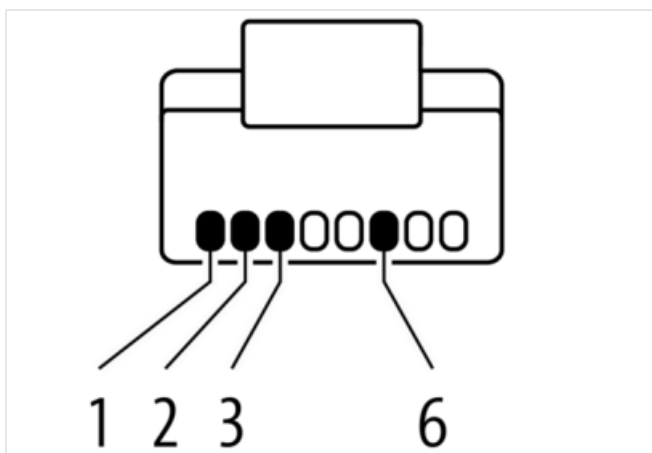
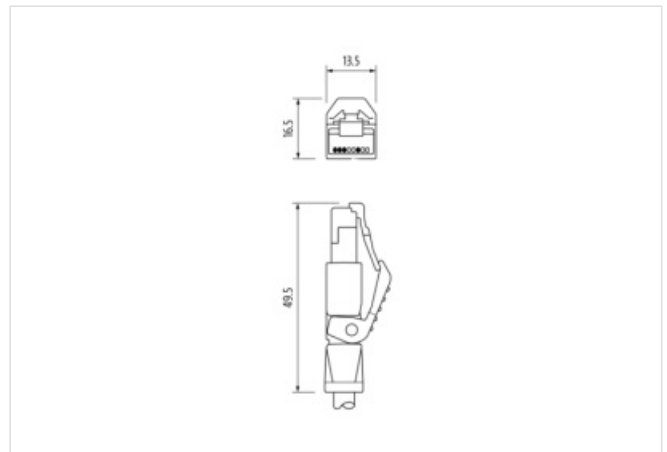
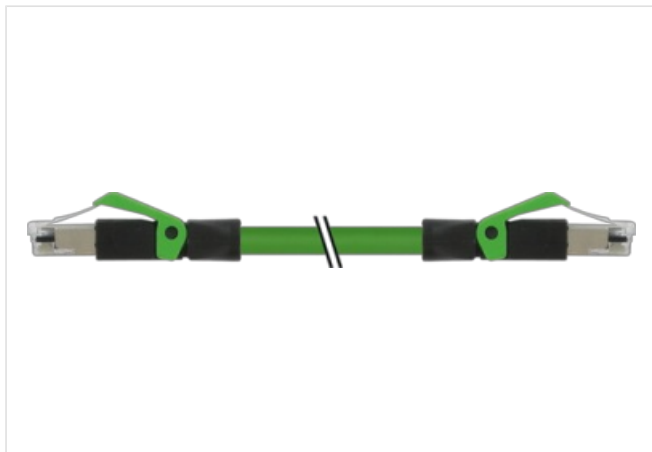
RJ45 – RJ45, 4-pole

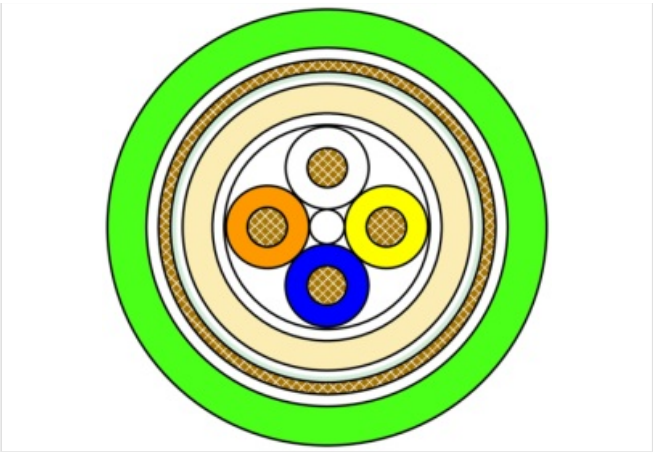
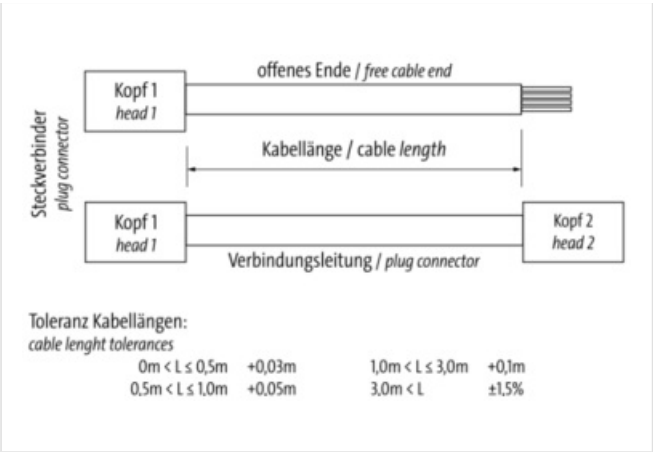
Shielded

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**



Product may differ from Image



Cable length	10,00 m
Side 1	
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
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/7000-74301-6591000
GTIN	4048879651219
EU-Customs tariff number	85444210
US-Customs tariff number	8544422000
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	85444210
EAN	4048879651219
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	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)

Industrial communication | Ethernet functionality

duplex	Full duplex
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Device protection | Electrical

Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	I

Mechanical data

Contour for corrugated hose	without
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Mechanical data | Material data

Locking material	PA
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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 60603-7 (RJ45)
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Installation | Cable

Cable identification	659
Function cable	Data
Cable weight	81 g/m
UL AWM Style	22009 / 10988
Stranding	1 × 4 wires around core filler star-shaped twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
Filler	Yes
Wire arrangement	WH, YE, BU, OG
Shield	shielded

Cable type	Industrial Ethernet Profinet Typ C, CAT5e
Material wire insulation	PE
Amount wires	4
Outer diameter insulation	1.4 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	PUR
Outer-diameter (jacket)	7.4 mm ± 5 %
Jacket Color	green / RAL 6018
Material inner jacket	TPE-V
Color (inner jacket)	white
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Conductor resistance (wire)	55 Ω/km @ 20 °C
Nominal voltage max.	600 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)	4,8 A
Current load capacity (standard)	to DIN VDE 0298-4
Electrical capacity line constant (wire - wire)	50.000 pF/km
Isolation resistance	5 GΩ × km
Characteristic impedance	100 Ω ± 15 % @ 15 MHz
Operating temperature (static)	-40 °C ... 80 °C
Operating temperature (dynamic)	-30 °C ... 70 °C
Operating temperature (drag chain)	-30 °C ... 70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060, UL 1581 § 1080, UL 1581 § 1090, UL 1581 § 1100
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	IEC 60811-403
UV resistance	UL 1581 § 1200 @ 300 h
Other resistances	good resistance to saturated hydrocarbons (diesel, kerosene, petrol ether), resistant to microbes, MUD-resistant (NEK 606)
Notes	application-related testing
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	12 × 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/s² @ 25 °C