

**RJ45 male 0° / RJ45 male 0° shielded**

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 5m

Art.No.: 7000-74301-7960500

Weight: 0.355 kg

Country of origin: DE

Model designation: MSRAL0-RA-8P4C796\_5.0

Ethernet CAT5

Male straight – male straight

RJ45 – RJ45, 4-pole

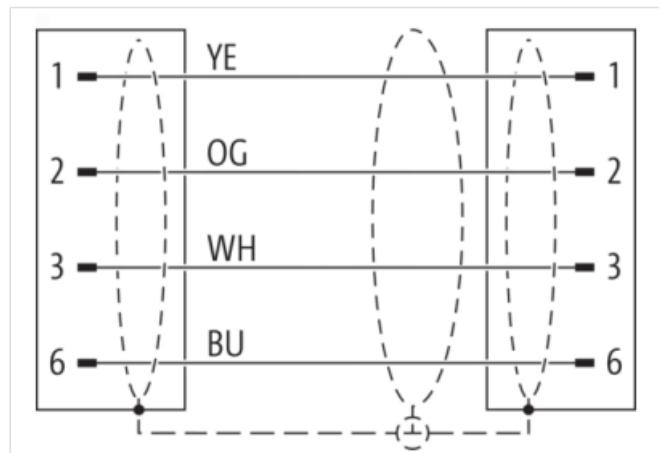
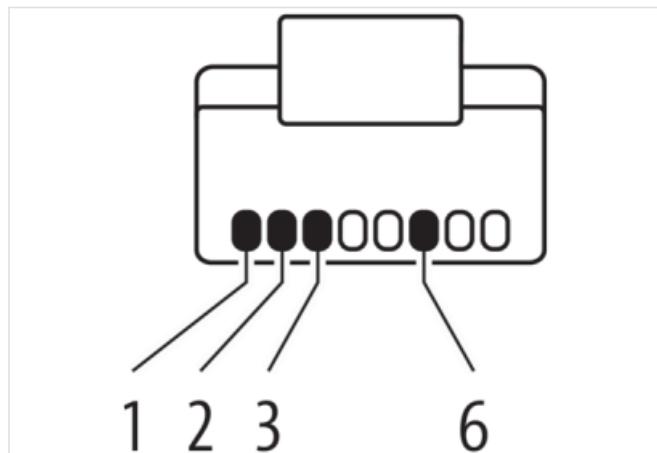
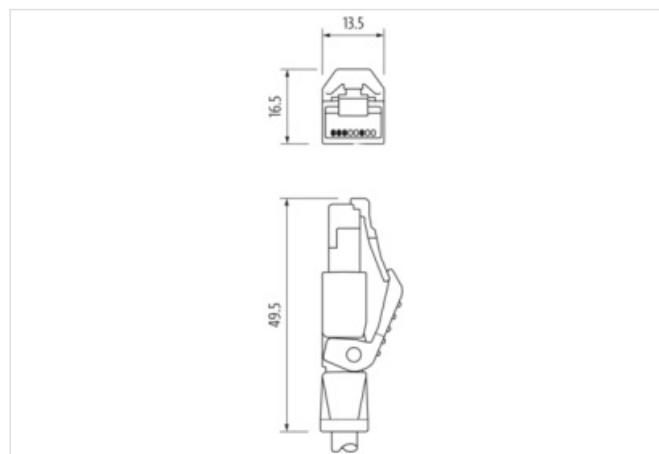
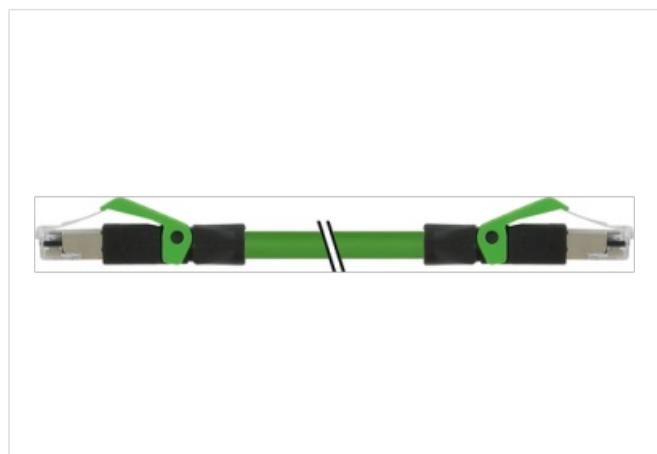
Shielded

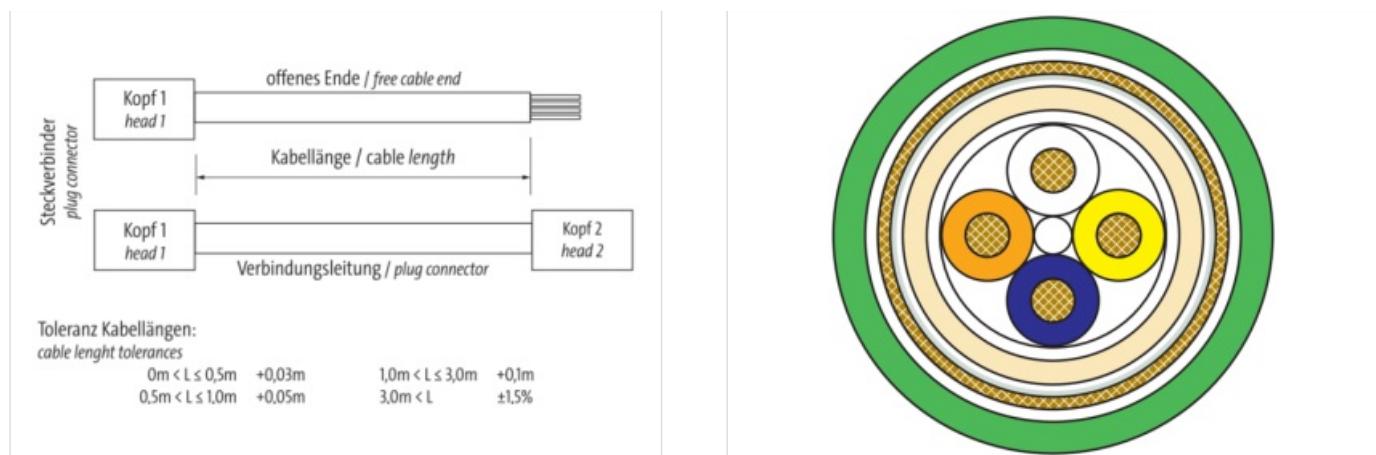
Product fulfills requirements according to UN/ECE R118

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.

Further cable lengths on request.

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




Product may differ from Image



EtherNet/IP

#### Header

Material short text	MSRAL0-RA-8P4C796_5.0
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Cable length	5,00 m
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#### Side 1

Family construction form	RJ45
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No. of poles	4
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Gender	male
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Mounting method	pluggable
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Cable outlet	straight
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Material	PUR
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Degree of protection (EN IEC 60529)	IP20
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#### Side 2

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

URL Webshop	<a href="https://shop.murrelektronik.com/7000-74301-7960500">https://shop.murrelektronik.com/7000-74301-7960500</a>
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GTIN	4048879383233
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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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ECCLASS-9.1	27060307
ECCLASS-10.0.1	27060307
ECCLASS-10.1	27060307
ECCLASS-11.0	27060307
ECCLASS-11.1	27060307
ECCLASS-12.0	27060307
ECCLASS-13.0	27060307
ECCLASS-14.0	27060307
ETIM-5.0	EC002599
ETIM-6.0	EC002599
ETIM-7.0	EC002599
ETIM-8.0	EC002599
customs tariff number	85444210
EAN	4048879383233
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
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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	<b>Attention:</b> 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	796
Function cable	Data
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
Wire arrangement	white, yellow, blue, orange
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