

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

PUR 1x4xAWG22 shielded gn UL/CSA 20m

Art.No.: 7000-74301-7942000

Weight: 1.300 kg

Country of origin: DE

Model designation: MSRAL0-RA-8P4C794\_20.0

Ethernet CAT5

Male straight – male straight

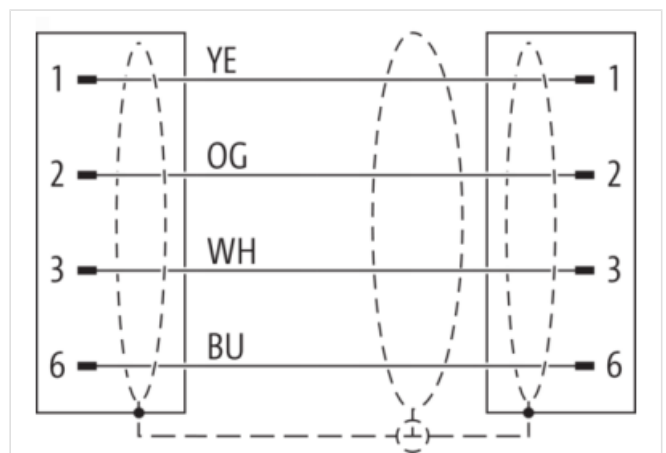
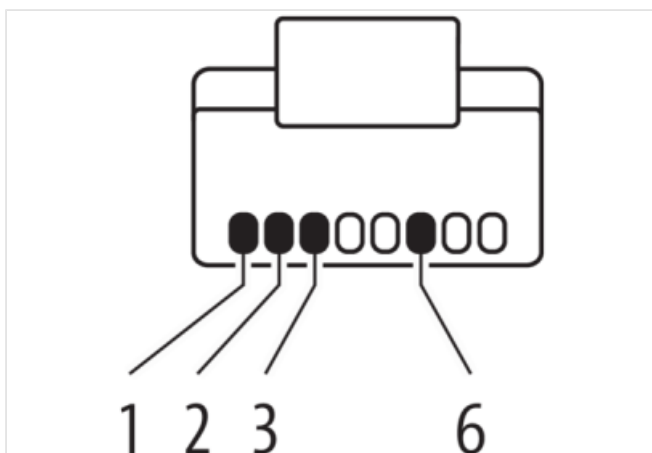
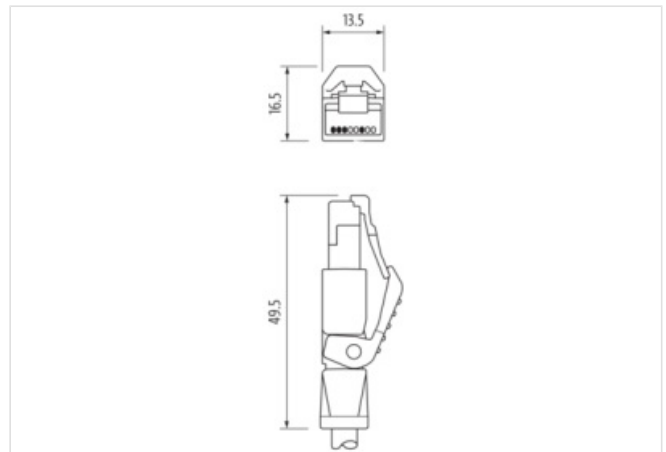
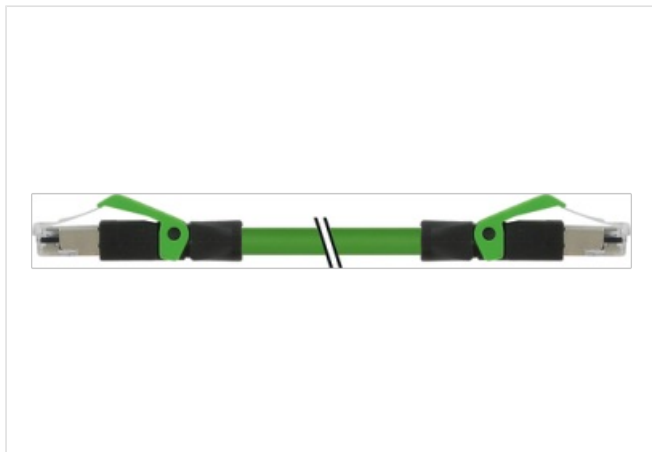
RJ45 – RJ45, 4-pole

Shielded

Further cable lengths on request.

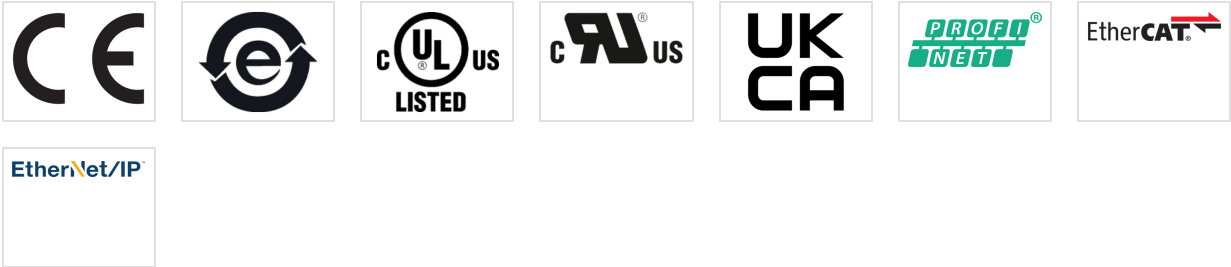
Plastic housings with good resistance against chemicals and oils.

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



| Header                              |                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Material short text                 | MSRAL0-RA-8P4C794_20.0                                                                                              |
| Cable length                        | 20,00 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                         | <a href="https://shop.murrelektronik.com/7000-74301-7942000">https://shop.murrelektronik.com/7000-74301-7942000</a> |
| GTIN                                | 4048879438407                                                                                                       |
| 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 | 85444210      |
| EAN                   | 4048879438407 |
| 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**

|                              |      |
|------------------------------|------|
| 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**

|                  |    |
|------------------|----|
| 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 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) |
|------------------|-----------------------|

**Installation | Cable**

|                            |                                                    |
|----------------------------|----------------------------------------------------|
| Cable identification       | 794                                                |
| Function cable             | Data                                               |
| 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                                                |
| Cable weight               | 68,97 g/m                                          |
| Material wire insulation   | PE                                                 |

|                                                 |                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------|
| Amount wires                                    | 4                                                                       |
| Outer diameter insulation                       | 1,55 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)                            | white                                                                   |
| Conductor resistance (wire)                     | 55,4 Ω/km @ 20 °C                                                       |
| Electrical capacity line constant (wire - wire) | 52.000 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)            | -20 °C                                                                  |
| Operating temperature max. (dynamic)            | 60 °C                                                                   |
| Flame resistance                                | UL 1581 § 1060, UL 1581 § 1090, UL 1581 § 1100                          |
| Oil resistance                                  | IEC 60811-404, NEMA WC55, IRM 901, IRM 902                              |
| 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)                          | 6 × Outer diameter                                                      |
| Bending radius (dynamic)                        | 12 × Outer diameter                                                     |