

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

PUR 1x4xAWG22 shielded bu UL/CSA+drag ch. 30m

Art.No.: 7000-74301-6773000

Weight: 2.101

Country of origin: DE

Model designation: MSRAL0-RA-8P4C677\_30.0

Ethernet CAT5

Male straight – male straight

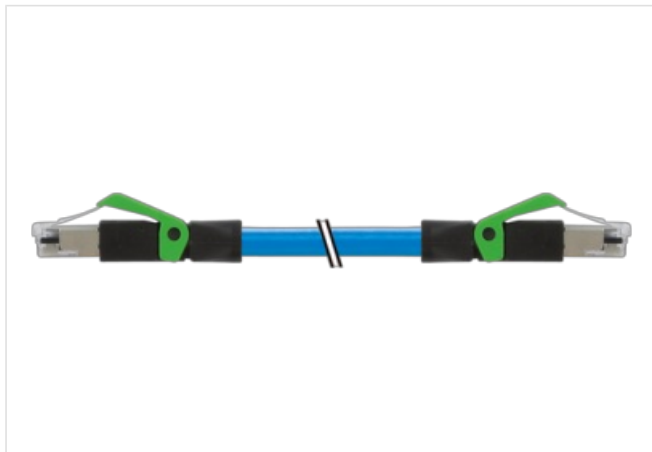
RJ45 – RJ45, 4-pole

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                        | 30 m          |
| Side 1                              |               |
| Mounting method                     | pluggable     |
| Family construction form            | RJ45          |
| Gender                              | male          |
| Cable outlet                        | straight      |
| Material                            | PUR           |
| No. of poles                        | 4             |
| Degree of protection (EN IEC 60529) | IP20          |
| Side 2                              |               |
| Mounting method                     | pluggable     |
| Family construction form            | RJ45          |
| Gender                              | male          |
| Cable outlet                        | straight      |
| Material                            | PUR           |
| No. of poles                        | 4             |
| Degree of protection (EN IEC 60529) | IP20          |
| Commercial data                     |               |
| ECLASS-6.0                          | 27061801      |
| ECLASS-6.1                          | 27060307      |
| ECLASS-7.0                          | 27060307      |
| ECLASS-8.0                          | 27060307      |
| ECLASS-9.0                          | 27060307      |
| ECLASS-10.1                         | 27060307      |
| ECLASS-11.1                         | 27060307      |
| ECLASS-12.0                         | 27060307      |
| customs tariff number               | 85444210      |
| EAN                                 | 4048879845021 |
| Packaging unit                      | 1             |
| Electrical data   Supply            |               |
| Operating voltage DC max.           | 60 V          |
| Current operating per contact max.  | 1,5 A         |

| Industrial communication                          |   |
|---|---|
| Transfer parameters                               | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  |
| Data transmission rate max.                       | 100 MBit/s  |
| 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.                        | -25 °C  |
| Operating temperature max.                        | 85 °C   |
| Additional condition temperature range            | depending on cable quality  |
| Important installation notes                      |   |
| Note on strain relief                             | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   |
| 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. |
| Conformity  |   |
| Product standard                                  | according to IEC 60603-7 (RJ45)   |
| Installation   Cable                              |   |
| wire arrangement                                  | white, yellow, blue, orange   |
| Cable identification                              | 677   |
| Jacket Color                                      | blue  |
| Type of Certificate                               | cURus   |
| Amount stranding                                  | 1   |
| Stranding   | 4 wires around Core filler twisted  |
| Cable shielding (type)                            | copper braid, tinned  |
| Cable shielding (coverage)                        | 85 %  |
| Banding   | Fleece, Foil  |
| Filler  | yes   |
| wire arrangement                                  | white, yellow, blue, orange   |
| Cable weight                                      | 69,3 g/m  |
| Material jacket                                   | PUR   |
| Shore hardness jacket                             | 89 Shore A  |
| Freedom from ingredients (jacket)                 | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  |
| Outer-diameter (jacket)                           | 6,7 mm  |
| Tolerance outer diameter (sheath)                 | ± 5 %   |
| Material inner jacket                             | FRNC  |
| Color (inner jacket)                              | natural   |
| Material wire insulation                          | PE  |
| Amount wires                                      | 4   |
| Outer diameter insulation                         | 1,4 mm  |
| Outer diameter tolerance core insulation          | ± 5 %   |
| Shore hardness wire insulation                    | 65 Shore D  |
| Ingredient freeness wire insulation               | lead-free, CFC-free, halogen-free   |
| Amount strands (wire)                             | 7   |
| Diameter of single wires                          | 22 AWG  |

|   |  |
|---|--|
| Conductor crosssection (wire)                     | 22 AWG   |
| Material conductor wire                           | Stranded copper wire, bare                           |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 4,8 A  |
| Characteristic impedance                          | 100 $\Omega \pm 15\%$ @ 100 MHz                      |
| Electrical resistance line constant wire          | 55 $\Omega/\text{km}$ @ 20 °C                        |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s  |
| Electrical capacity line constant (wire - wire)   | 50000 pF/km  |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s  |
| AC withstand voltage (wire - shield)              | 2 kV @ 60 s  |
| Isolation resistance                              | 5000 M $\Omega \times \text{km}$                     |
| Min. operating temperature (static)               | -40 °C   |
| Max. operating temperature (fixed)                | 80 °C  |
| Operating temperature min. (dynamic)              | -30 °C   |
| Operating temperature max. (dynamic)              | 70 °C  |
| Flame resistance                                  | UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  |
| chemical resistance                               | Good, application-related testing                    |
| Gasoline resistance                               | Good, application-related testing                    |
| Oil resistance                                    | Good, application-related testing   DIN EN 60811-404 |
| Bending radius (fixed)                            | 5 x Outer diameter                                   |
| Bending radius (dynamic)                          | 12 x Outer diameter                                  |
| No. of bending cycles (C-track)                   | 3 Mio.   |
| Traversing distance (C-track)                     | 5 m @ 25 °C  |
| Travel speed (C-track)                            | 3,3 m/s @ 25 °C                                      |
| No. of torsion cycles                             | 1 Mio.   |
| Torsion stress                                    | $\pm 180$ °/m  |