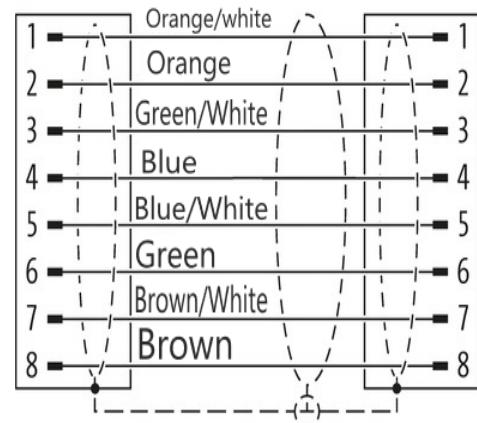


# Product Data sheet

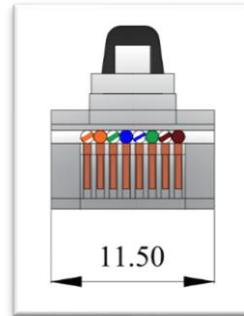
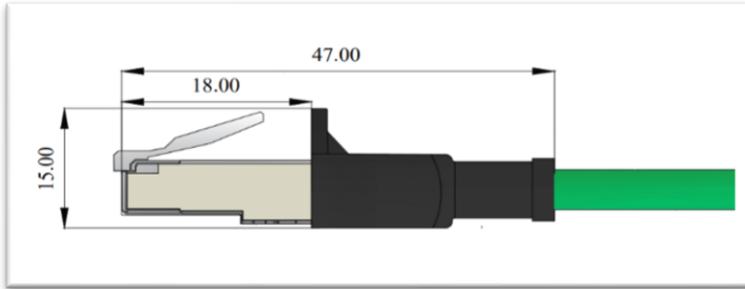
## Industrial Ethernet Cable – Extension Cable

- ❖ Product description- RJ45 Male 0° / RJ45 Male 0° 8P8C CAT 6A PUR Shielded Green Cable
- ❖ MPN- 2445-9696-0098-814-XXXX-Gn
- ❖ Series -RJ45 Cord Set

### Illustration



- ❖ -Colour customization available based on MOQ



Product may differ from image



Product Datasheet Rev.No-03 Effective date-02-12-2025

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Factory Address: 2347/B Wagholi Warehouse, Pune Nagar Road, Wagholi, Pune- 412207, Maharashtra, India.

# Product Data sheet

## Industrial Ethernet Cable – Extension Cable

### Technical Data

|  |                             |
|--|-----------------------------|
| <b>Operating voltage</b>                 | 60V AC/DC*                  |
| <b>Rated Surge Voltage</b>               | 1 kV                        |
| <b>Operating current per contact AMP</b> | Max. 1.5 A                  |
| <b>Connection type head A</b>            | RJ45, 8-Pin, Male Straight, |
| <b>Connection type head B</b>            | RJ45, 8-Pin, Male Straight, |
| <b>Protection</b>                        | IP20                        |
| <b>Housing Material</b>                  | TPU                         |
| <b>LED display</b>                       | No                          |
| <b>Connector colour</b>                  | Transparent                 |

### Electrical Data

|                                  |  |
|----------------------------------|--|
| <b>Overvoltage category</b>      | II                                     |
| <b>Contact resistance</b>        | $\leq 20 \text{ m}\Omega$              |
| <b>Insulation resistance</b>     | $\geq 500 \text{ m}\Omega$             |
| <b>Test voltage</b>              | $\geq 1500 \text{ V}$                  |
| <b>Conductor material</b>        | Cu wire                                |
| <b>Max. conductor resistance</b> | Max. 140 $\Omega/\text{km}$ (at 20 °C) |
| <b>Nominal voltage</b>           | $\leq 600 \text{ V}$                   |
| <b>Frequency Range</b>           | Up to 500 MHz                          |

### Mechanical Data

|                                    |                                |
|------------------------------------|--------------------------------|
| <b>Insertion/withdrawal cycles</b> | $\geq 750$                     |
| <b>Insertion force</b>             | 20 N max                       |
| <b>Pull Retention force</b>        | 50 N min                       |
| <b>Durability</b>                  | 750 Mating and Unmating cycles |

### Product properties

|   |  |
|---|--|
| <b>Application</b>                            | Ethernet, Data transmission            |
| <b>Partly UV-resistant</b>                    | In accordance with DIN EN ISO 4892-2-A |
| <b>Flammability rating According to UL 94</b> | V2                                     |

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# Product Data sheet

## Industrial Ethernet Cable – Extension Cable

| General Data                              |   |
|---|---|
| <b>Category</b>                           | CAT6A   |
| <b>Mounting method</b>                    | Inserted  |
| <b>Pin Contact</b>                        | CuZn Gold plated  |
| <b>Housing contact</b>                    | CuZn  |
| <b>Material (contact surface)</b>         | Au  |
| <b>Pollution Degree</b>                   | 3   |
| <b>Transmission Speed</b>                 | 10 Gbps   |
| <b>Temperature range</b>                  | -25.... +105°C  |
| Cable Data                                |   |
| <b>Cable Type</b>                         | PUR   |
| <b>Cable weight</b>                       | 65 g/m  |
| <b>Diameter (core)</b>                    | 8*0.14 mm <sup>2</sup> .  |
| <b>AWG</b>                                | Similar to AWG 26   |
| <b>Material (wire isolation)</b>          | PP  |
| <b>Material property (wire isolation)</b> | Halogen-, CFC-, cadmium-, silicone- and lead-free                               |
| <b>Colour/numbering of wires</b>          | White/Orange, Orange, White/Green, Blue, White/Blue, Green, White/ Brown, Brown |
| <b>Shield</b>                             | Yes   |
| <b>Shielding</b>                          | Tin braiding  |
| <b>Optical shield covering</b>            | Min 85%   |
| <b>Material (jacket)</b>                  | PUR   |
| <b>Outer-Ø (jacket)</b>                   | 6.20 ±0.2mm <sup>2</sup>  |
| <b>Colour (jacket)</b>                    | Green   |
| <b>Chemical resistance</b>                | Good resistance to oil, gasoline and chemicals (EN 60811-404)                   |
| <b>Thermal resistance</b>                 | Flame retardant UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2               |
| <b>Temperature range (fixed)</b>          | -40...+80 °C, (+105 °C. at max. 10 000 operating hours)                         |
| <b>Temperature range (mobile)</b>         | -25...+80 °C, (+105 °C. at max. 10 000 operating hours)                         |
| <b>Bend radius (fixed)</b>                | 12× outer Ø   |
| <b>Bend radius (moving)</b>               | 12× outer Ø   |
| <b>Drag chain (fixed &amp; moving)</b>    | 12× outer Ø   |

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# Product Data sheet

## Industrial Ethernet Cable – Extension Cable

|                                 |              |
|---------------------------------|--------------|
| No. of bending cycles (C-track) | 3 Millions.  |
| Acceleration (C-track)          | Max. 2.4 m/s |
| Torsion stress                  | ±270 °/m     |
| No. of torsion cycles           | 3 Millions   |
| Torsion speed                   | 60 cycle/min |

### Approvals

UL

CE

cULus

RoHS

Note: This product has been manufactured by the following Class-I, Class-II and class-III **IPC** standards

To understand the MPN please refer the below table

| <b>2445-9696-0098-814-XXXX-Gn</b> |  |
|-----------------------------------|--|
| 24                                | Series                                   |
| 45                                | RJ45 Connector                           |
| 9                                 | Male                                     |
| 6                                 | Straight                                 |
| 9                                 | Male                                     |
| 6                                 | Straight                                 |
| 09                                | CAT 6A Shielded Cable                    |
| 8                                 | 8 Pole Connectors                        |
| 8                                 | 8 Core Cable                             |
| 14                                | 0.14 mm <sup>2</sup> (Core size)         |
| XXXX                              | Cable length as per customer requirement |
| Gn                                | Green                                    |

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