



Product: [GMMKA48](#)

Outdoor Tactical bare fiber mini distribution cable PUR jacket 48f SM OS2 G.652.D & G.657.A1.

Product Description

Outdoor Tactical bare fiber mini optical fiber distribution cable with Polyurethane (PUR) outer jacket. 48 fibers SM OS2 G.652.D & G.657.A1.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Construction Type: | Tactical |
| Environmental Space: | Indoor/Outdoor |
| Suitable Applications: | The individual multi fibre units (of which this metal-free cable is composed) permits direct termination with MPO connectors. Extremely strong, rugged, survivable cable for severe environments. This cable is halogen-free, watertight and therefore suitable for indoor and outdoor use. The cable combines the ruggedness of tactical cable with the ultra-high density of micro-cable technology. Designed for rapid deployment in optical networks, high mechanical performance, and suitable for extreme environmental exposure. High fiber density allows for longer deployment lengths. Longer assembly lengths reduce the number of optical connections and enhance network performance. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count | Subunit Color |
|---------------------------|--|-------------|---|
| OS2 | G.652D & G.657A1 | 48 | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown |
| Fiber Color Coding: | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua | | |
| Central Strength Member: | GRP | | |
| Cable Core Water Tight: | No | | |
| Cable Core Waterblocking: | Waterblocking Aramid Yarns | | |
| Bulk Cable Weight: | 58 kg/km | | |

SubUnit Specifications

| | |
|------------------------------|----------------------------|
| Number of Active Subunits: | 4 |
| Number of Subunit Positions: | 4 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 2.1 mm |
| Subunit Waterblocking: | Waterblocking Aramid Yarns |

Jacket Specifications

| | |
|--------------------|---------------|
| Number of Jackets: | Single Jacket |
| Type of Armor: | Non-Armored |

Outer Jacket Specifications

Outer Jacket

| Material | Color | Nominal Diameter | Ripcord |
|--------------------|-------|------------------|---------|
| PUR - Polyurethane | Black | 8.0 mm | Yes |

Optical Characteristics

| | |
|------------------------------|------------|
| Max. Attenuation at 1310 nm: | 0.40 dB/km |
| Max. Attenuation at 1550 nm: | 0.30 dB/km |
| Max. Attenuation at 1625 nm: | 0.30 dB/km |

Mechanical Characteristics

Mechanical Tests

| Description | Tested Standard | Requirement/Value | According to Family Specification |
|---|--------------------|-------------------|-----------------------------------|
| Cable Min. Bend Radius Installation (Short Term) | IEC 60794-1-21-E6 | 120 mm | IEC 60794-2-20 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 80 mm | IEC 60794-2-20 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 2000 N (450 lbf) | IEC 60794-2-20 |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 50 kN/m | IEC 60794-2-20 |

Temperature Range

| | |
|---------------------------------|------------------|
| Operating Temperature Range: | -50 °C to +80 °C |
| Installation Temperature Range: | -20 °C to +65 °C |
| Storage Temperature Range: | -50 °C to +80 °C |

Standards

| | |
|-----------------------------------|----------------------------|
| UL Rating/Flame Test: | Non-UL Rated |
| IEC Flammability: | IEC 60332-1-2 |
| REACH: | Compliant |
| ISO/IEC Compliance: | IEC 60794, ISO/IEC 11801-1 |
| EU Directive 2011/65/EU (RoHS 2): | Compliant |
| UV/ Sunlight Protection: | Yes |

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.82 Revision Date: 09-17-2024 |
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