



Product: [GBAJ244](#) 

Outdoor Loose Tube 144 Fibers OM2

Product Description

Outdoor Dry Core Multi Loose Tube Optical Cable 144 x 50/125-OM2 A-DQ(ZN)2Y

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Construction Type: | Multi Loose Tube |
| Environmental Space: | Outdoor |
| Suitable Applications: | For outdoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and trenches and/or tubes. Suitable for Direct Burial. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Count | Subunit Color |
|----------------------------|--|--|
| OM2 | 144 | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |
| 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: | Yes | |
| Cable Core Water Blocking: | Waterblocking Aramid Yarns + Tape | |
| Bulk Cable Weight: | 128 kg/km | |

SubUnit Specifications

| | |
|------------------------------|------------|
| Number of Active Subunits: | 12 |
| Number of Subunit Positions: | 12 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 1.9 mm |
| Subunit Waterblocking: | Gel Filled |

Jacket Specifications

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

Outer Jacket

Outer Jacket Material

| Material | Color | Nominal Diameter | Ripcord |
|-------------------|-------|------------------|---------|
| PE - Polyethylene | Black | 12.7 mm | 1 |

Optical Characteristics

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|-----------------------------|-----------|
| Fiber Core Diameter: | 50 µm |
| Max Attenuation at 1300 nm: | 1.0 dB/km |

| | |
|----------------------------|-----------|
| Max Attenuation at 850 nm: | 2.9 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 | 254 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 191 mm | IEC 60794-3-10 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 2850 N (641 lbf) | IEC 60794-3-10 |
| Cable Max. Tensile Strength Operation (Long Term) | IEC 60794-1-21-E1 | 950 N (214 lbf) | IEC 60794-3-10 |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 15 kN/m | IEC 60794-3-10 |
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 | 7.5 kN/m | IEC 60794-3-10 |
| Cable Impact Resistance | IEC 60794-1-21-E4 | 10 J, 300 mm Radius, 3 Cycles | IEC 60794-3-10 |
| Cable Torsion Resistance | IEC 60794-1-21-E7 | 180°, 2 m, 10 cycles | IEC 60794-3-10 |

Temperature Range

| | |
|--------------------------|------------------|
| Operating Temp Range: | -30 °C to +70 °C |
| Installation Temp Range: | -5 °C to +50 °C |
| Storage Temp Range: | -30 °C to +70 °C |

Standards

| | |
|------------------------------------|--------------|
| UL Rating/Flame Test: | Non-UL Rated |
| REACH: | Compliant |
| IEC Compliance: | IEC 60794 |
| EU Directive 2011/65/EU (ROHS II): | Compliant |
| UV/ Sunlight Protection: | yes |

History

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| Update and Revision: | Revision Number: 0.48 Revision Date: 03-30-2021 |
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