



Product: [GOWBF16](#)

Outdoor Double Jacket Central Loose Tube Steel Wire Armour 16 Fibers
G657A2-OS2

Product Description

Outdoor Steel Wire Armour Double Jacket Rodent Protection Central Loose Tube Optical Cable 16 x 9/125-G657A2/G657B2-OS2 A-DQ(ZN)2Y(SR)2Y

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Construction Type: | Central 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 Grade acc. ITU-T | Fiber Count | Subunit Color |
|------------|------------------------|-------------|--------------------------------|
| OS2 | G657A2 & G657B2 | 16 | TIA coding (Gxxxxx.T): Natural |

| | |
|---------------------------|---|
| Fiber Color Coding: | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua. With Ringmark: BL, OR, GR, BR |
| Cable Core Water Tight: | Yes |
| Cable Core Waterblocking: | Waterblocking Glass Yarns |
| Bulk Cable Weight: | 268 kg/km |

SubUnit Specifications

| | |
|------------------------------|------------|
| Number of Active Subunits: | 1 |
| Number of Subunit Positions: | 1 |
| Subunit Diameter: | 4.2 mm |
| Subunit Waterblocking: | Gel Filled |

Jacket Specifications

| | |
|--------------------|---------------|
| Number of Jackets: | Double Jacket |
| Type of Armor: | Steel Wire |

Inner Jacket

| | |
|----------------|-------------------|
| Nom. Diameter: | 8.7 mm |
| Material: | PE - Polyethylene |

Outer Jacket Specifications

Outer Jacket

| Material | Color | Nominal Diameter | Ripcord |
|-------------------|-------|------------------|---------|
| PE - Polyethylene | Black | 13.5 mm | Yes |

Optical Characteristics

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|----------------------|------|
| Fiber Core Diameter: | 9 µm |
|----------------------|------|

| | |
|------------------------------|------------|
| Max. Attenuation at 1310 nm: | 0.40 dB/km |
| Max. Attenuation at 1550 nm: | 0.26 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 | 270 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 135 mm | IEC 60794-3-10 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 3750 N (843 lbf) | IEC 60794-3-10 |
| Cable Max. Tensile Strength Operation (Long Term) | IEC 60794-1-21-E1 | 1250 N (281 lbf) | IEC 60794-3-10 |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 22 kN/m | IEC 60794-3-10 |
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 | 11 kN/m | IEC 60794-3-10 |

Temperature Range

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

Standards

| | |
|-----------------------------------|----------------------------|
| UL Rating/Flame Test: | Non-UL Rated |
| 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: 0.29 Revision Date: 09-17-2024 |
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