



**Product:** [GBAH272](#) 

## Outdoor Loose Tube 72 Fibers OM2

### Product Description

Outdoor Dry Core Multi Loose Tube Optical Cable 72 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                        | 72  | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White |
| Fiber Color Coding:        | TIA coding (Gxxxxxx.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:         | 72 kg/km  |   |

#### SubUnit Specifications

|                              |            |
|------------------------------|------------|
| Number of Active Subunits:   | 6          |
| Number of Subunit Positions: | 6          |
| 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 | 9.5 mm           | 1       |

#### Optical Characteristics

|                             |           |
|-----------------------------|-----------|
| 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  | 190 mm                        | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 142.5 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

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.50 Revision Date: 03-30-2021 |
|----------------------|---|

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