



Part Number: GUSND12

Indoor/Outdoor Central Loose Tube 12 Fibers OM3

Product Description

Universal (Indoor/Outdoor) Rodent Protection Central Loose Tube Optical Cable 12 x 50/125-OM3-BI A/I-DQ(ZN)BH

Technical Specifications

| | |
|--------------------|--------------------|
| Construction Type: | Central Loose Tube |
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Product Overview

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|------------------------|--|
| Environmental Space: | Indoor/Outdoor - Euroclass Dca |
| Suitable Applications: | For outdoor and indoor use in structured (data) wiring systems such as campus backbone, building backbone (riser) and/or horizontal cabling. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Easy to install in ducts, tunnels and trenches. Suitable for direct burial. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Count | Subunit Color | Subunit Color 2 |
|----------------------------|---|---------------------------------|------------------------------------|
| OM3 | 12 | TIA coding (Gxxxxxx.T): Natural | Europe coding (Gxxxxxx.0): Natural |
| Fiber Color Coding: | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua | | |
| Fiber Color Coding 2: | Europe coding (Gxxxxxx.0): Red, Natural, Yellow, Blue, Green, Violet, Brown, Black, Orange, Aqua, Pink, White | | |
| Cable Core Water Blocking: | Waterblocking Glass Yarns | | |
| Bulk Cable Weight: | 37 kg/km | | |

SubUnit Specifications

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|------------------------|-------------------|
| SubUnit Diameter: | 0.130 in (3.3 mm) |
| SubUnit Waterblocking: | Gel Filled |

Jacket Specifications

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

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|-------------------------------|------------------|------------------------|---------|
| LSZH - Low Smoke Zero Halogen | 5.8 mm | 0.8 mm | 0 |

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 | 116 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 58 mm | IEC 60794-3-10 |

| | | | |
|---|-------------------|------------------|----------------|
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 1250 N (281 lbf) | IEC 60794-3-10 |
| Cable Max. Tensile Strength Operation (Long Term) | IEC 60794-1-21-E1 | 420 N (94 lbf) | IEC 60794-3-10 |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 15 kN/m | |
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 | 7.5 kN/m | IEC 60794-3-10 |

Temperature Range

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|--------------------------|------------------|
| 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

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|------------------------------------|--------------|
| UL Rating/Flame Test: | Non-UL Rated |
| CPR Euroclass: | Dca-s2,d1,a1 |
| REACH: | Compliant |
| ISO/IEC Compliance: | IEC 60824 |
| EU Directive 2011/65/EU (ROHS II): | Compliant |
| UV/ Sunlight Protection: | yes |

History

Variants

| Item # | Color | Length |
|----------------|-----------|---------|
| GUSND12.024100 | Black | 4,100 m |
| GUSND12.022100 | Black | 2,100 m |
| GUSND12.T32100 | Black | 2,100 m |
| GUSND12.T02100 | Black | 2,100 m |
| GUSND12.002100 | Orange | 2,100 m |
| GUSND12.004100 | Orange | 4,100 m |
| GUSND12.006100 | Orange | 6,100 m |
| GUSND12.K04100 | Orange | 4,100 m |
| GUSND12.012100 | Turquoise | 2,100 m |
| GUSND12.K14100 | Turquoise | 4,100 m |
| GUSND12.014100 | Turquoise | 4,100 m |
| GUSND12.TA2100 | Turquoise | 2,100 m |

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| Update and Revision: | Revision Number: 0.89 Revision Date: 07-08-2019 |
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