



**Product:** [GUSNI12](#)

Indoor/Outdoor Central Loose Tube 12 Fibers G.657B3-OS2

### Product Description

Universal (Indoor/Outdoor) Rodent Protection Central Loose Tube Optical Cable 12 x 9/125-G.657B3-OS2 A/I-DQ(ZN)BH

### Technical Specifications

#### Product Overview

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

#### Construction

##### Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count	Subunit Color	Subunit Color 2
OS2	G.657B3	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 Tight:	Yes
Cable Core Water Blocking:	Waterblocking Glass Yarns
Bulk Cable Weight:	37 kg/km

#### SubUnit Specifications

Number of Active Subunits:	1
Number of Subunit Positions:	1
Fibers Per Subunit:	12
Subunit Diameter:	3.3 mm
Subunit Waterblocking:	Gel Filled

#### Jacket Specifications

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

#### Outer Jacket

##### Outer Jacket Material

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.8 mm	0

Table Notes: Standard color: Orange. Available colors: Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Black, Lime Green

#### Optical Characteristics

Fiber Core Diameter:	9 µm
Max Attenuation at 1310 nm:	0.40 dB/km
Max Attenuation at 1550 nm:	0.26 dB/km

Max Attenuation at 1625 nm:	0.28 dB/km
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## 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	1500 N (337 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	500 N (112 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

### 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
IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	10 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%
CPR Euroclass:	Dca-s2,d1,a1
REACH:	Compliant
IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	yes

### History

Update and Revision:	Revision Number: 0.55 Revision Date: 03-16-2021
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