



**Product:** [GUSN812](#)

Indoor/Outdoor Central Loose Tube 12 Fibers G652D/G657A1-OS2

### Product Description

Universal (Indoor/Outdoor) Rodent Protection Central Loose Tube Optical Cable 12 x 9/125-G652D/G657A1-OS2 A/I-DQ(ZN)BH

### Technical Specifications

Construction Type:	Central Loose Tube
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### Product Overview

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	G652D & G657A1	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

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

### Jacket Specifications

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

#### Outer Jacket Material

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen	5.8 mm	0

### Optical Characteristics

Fiber Core Diameter:	9 µm
Max Attenuation at 1310 nm:	0.39 dB/km
Max Attenuation at 1550 nm:	0.24 dB/km

### Mechanical Characteristics

#### Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
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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

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
CPR Euroclass:	Dca-s2,d1,a1
REACH:	Compliant
IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (ROHS II):	Compliant
UV/ Sunlight Protection:	yes

## History

### Variants

Item #	Color	Length
GUSN812.022100	Black	2,100 m
GUSN812.023100	Black	3,100 m
GUSN812.T02100	Black	2,100 m
GUSN812.024100	Black	4,100 m
GUSN812.002100	Orange	2,100 m
GUSN812.004100	Orange	4,100 m
GUSN812.006100	Orange	6,100 m
GUSN812.012100	Yellow	2,100 m
GUSN812.014100	Yellow	4,100 m
GUSN812.016100	Yellow	6,100 m
GUSN812.T42100	Yellow	2,100 m

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