



**Product:** [GDAD812](#)

Outdoor Loose Tube 12 Fibers G652D/G657A1-OS2

**Product Description**

Outdoor Filled Core Multi Loose Tube Optical Cable 12 x 9/125-G652D/G657A1-OS2 A-DF(ZN)2Y

**Technical Specifications**

**Product Overview**

Construction Type:	Multi Loose Tube
Environmental Space:	Outdoor
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 (Gxxxxx.T): Blue	Europe coding (Gxxxxx.0): Red

Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua
Fiber Color Coding 2:	Europe coding (Gxxxxx.0): Red, Natural, Yellow, Blue, Green, Violet, Brown, Black, Orange, Aqua, Pink, White
Central Strength Member:	GRP
Cable Core Water Tight:	Yes
Cable Core Water Blocking:	Waterblocking Aramid Yarns
Bulk Cable Weight:	108 kg/km

**SubUnit Specifications**

Number of Active Subunits:	1
Number of Subunit Positions:	6
Fibers Per Subunit:	12
Subunit Diameter:	2.5 mm
Subunit Waterblocking:	Gel Filled

**Jacket Specifications**

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

**Outer Jacket Specifications**

**Outer Jacket**

Material	Color	Nominal Diameter	Ripcord
PE - Polyethylene	Black	12.0 mm	1

**Optical Characteristics**

Fiber Core Diameter:	9 µm
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Max. Attenuation at 1310 nm:	0.40 dB/km
Max. Attenuation at 1550 nm:	0.24 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	240 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	240 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2650 N (596 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	850 N (191 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
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	Yes

### History

Update and Revision:	Revision Number: 0.12 Revision Date: 05-25-2021
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