



Product: [GBRD848](#)

Outdoor Loose Tube 48 Fibers G652D/G657A1-OS2

Product Description
Outdoor Dry Core Rodent Protection Multi Loose Tube Optical Cable 48 x 9/125-G652D/G657A1-OS2 A-DQ(ZN)B2Y

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 Grade acc. ITU-T	Fiber Count	Subunit Color
OS2	G652D & G657A1	48	TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown
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 Waterblocking:	Waterblocking Glass Yarns + Tape		
Bulk Cable Weight:	149 kg/km		

SubUnit Specifications

Number of Active Subunits:	4
Number of Subunit Positions:	6
Fibers Per Subunit:	12
Subunit Diameter:	0.098 in (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	Nominal Wall Thickness	Ripcord
PE - Polyethylene	Black	13.7 mm	1.95 mm	Yes

Optical Characteristics

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

Max. Attenuation at 1550 nm:	0.24 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	274 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	274 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	6600 N (1484 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	2200 N (495 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 Temperature Range:	-30 °C to +70 °C
Installation Temperature Range:	-5 °C to +50 °C
Storage Temperature 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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
GBRD848.002100	Black	Reel	2,100 m	8719605071903

History

Update and Revision:	Revision Number: 0.109 Revision Date: 11-09-2022
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