



**Product:** [GBRH848](#) 

Outdoor Loose Tube 48 Fibers G.652D/G.657A1-OS2

### Product Description

Outdoor Dry Core Rodent Protection Multi Loose Tube Optical Cable 48 x 9/125-G.652D/G.657A1-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	G.652D & G.657A1	48	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown

Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua
Central Strength Member:	GRP
Cable Core Water Tight:	Yes
Cable Core Water Blocking:	Waterblocking Glass Yarns + Tape
Bulk Cable Weight:	102 kg/km

#### SubUnit Specifications

Number of Active Subunits:	4
Number of Subunit Positions:	6
Fibers Per Subunit:	12
Subunit Diameter:	1.9 mm
Subunit Waterblocking:	Gel Filled

#### Jacket Specifications

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

#### Outer Jacket

##### Outer Jacket Material

Material	Color	Nominal Diameter	Ripcord
PE - Polyethylene	Black	11.0 mm	1

#### Optical Characteristics

Fiber Core Diameter:	9 $\mu$ m
Max Attenuation at 1310 nm:	0.40 dB/km

Max Attenuation at 1550 nm:	0.24 dB/km
Max Attenuation at 1625 nm:	0.29 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	220 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	165 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	6000 N (1349 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	2000 N (450 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
Cable Impact Resistance	IEC 60794-1-21-E4	10 J, 300 mm Radius, 3 Cycles	IEC 60794-3-10
Cable Torsion Resistance	IEC 60794-1-21-E7	180°, 2 m, 10 cycles	IEC 60794-3-10

### Temperature Range

Operating Temp Range:	-30 °C to +75 °C
Installation Temp Range:	-5 °C to +60 °C
Storage Temp Range:	-30 °C to +75 °C

### Standards

UL Rating/Flame Test:	Non-UL Rated
REACH:	Compliant
IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (ROHS II):	Compliant
UV/ Sunlight Protection:	yes

### History

Update and Revision:	Revision Number: 0.44 Revision Date: 03-30-2021
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