



Product: GRRIF84 ☑

Universal OFC MLT: LSZH + GLASS YARNS + LSZH with 8 Tubes of Ø1.9mm 84f SM OS2 G.657.A2.

# **Product Description**

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with Low Smoke Zero Halogen inner jacket, glass yarns as strength member and Low Smoke Zero Halogen outer jacket. Product feature: This cable has rodent protection by glass yarns. Existing out of 8 tubes with a diameter of 1.9mm with 84 fibers (7t x 12f) SM OS2 G.657.A2.

# **Technical Specifications**

### **Product Overview**

Construction Type:	Multi Loose Tube			
Environmental Space:	Indoor/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	per Count Subunit Color		
OS2	G.657A2	84	TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Re		
Fiber Color Coding: TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, F					
Central Strength Member: GRP					
Cable Core	Water Tight:	Yes			
Cable Core Waterblocking: Waterblocking Glass Yarns + Tape					
Bulk Cable Weight: 174 kg/km					

# **SubUnit Specifications**

Number of Active Subunits:	7
Number of Subunit Positions:	8
Fibers Per Subunit:	12
Subunit Diameter:	1.9 mm
Subunit Waterblocking:	Gel Filled

# **Jacket Specifications**

Number of Jackets:	Double Jacket
Type of Armor:	All Dielectric

## **Inner Jacket**

Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)

# **Outer Jacket Specifications**

# **Outer Jacket**

	Material		Nominal Diameter	Ripcord
ľ	LSZH - Low Smoke Zero Halogen (Flame	e Retardant)	13.2 mm	Yes
ľ	Table Notes:	Standard co	olor: Orange. Available	e colors: (

### **Optical Characteristics**

Max. Attenuation at 1310 nm:	0.40 dB/km
Max. Attenuation at 1550 nm:	0.30 dB/km
Max. Attenuation at 1625 nm:	0.30 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	264 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	264 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 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	
Reaction to Fire - Bundle Flame Test:	IEC 60332-3-24	
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	
REACH:	Compliant	
ISO/IEC Compliance:	IEC 60794, ISO/IEC 11801-1	
EU Directive 2011/65/EU (RoHS 2):	Compliant	
UV/ Sunlight Protection:	Yes	

## History

Update and Revision:	Revision Number: 0.75 Revision Date: 09-17-2024

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