



Product: [GSKHI48](#) 

Outdoor OFC MLT: ARAMID + PE + ALPOL-PE-PA + CST + PE with 6 Tubes of Ø1.9mm 48f SM OS2 G.657.B3.

Product Description

Outdoor dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member, Tri-Barrier (lamine layer of aluminum, high density polyethylene and polyamide), polyethylene inner jacket, Corrugated Steel Tape (Full Rodent Protected) armor and polyethylene outer jacket. Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected), termite protection by polyamide layer and has Tri-Barrier (lamine layer of aluminum, high density polyethylene and polyamide). Existing out of 6 tubes with a diameter of 1.9mm with 48 fibers (4t x 12f) SM OS2 G.657.B3.

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.657B3	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 Waterblocking:	Waterblocking Glass Yarns + Tape
Bulk Cable Weight:	332 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:	Triple Jacket
Type of Armor:	Corrugated Steel Tape

Inner Jacket

Material:	PE - Polyethylene
Material@InnerJacket2:	PE - Polyethylene

Outer Jacket Specifications

Outer Jacket

Material	Color	Nominal Diameter	Ripcord
PE - Polyethylene	Black	17.5 mm	No

Table Notes:	Standard color: Black. Available colors: Black, Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Lime Green
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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	350 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	350 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2700 N (607 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	900 N (202 lbf)	IEC 60794-3-10
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	20 kN/m	IEC 60794-3-10
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3		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, ISO/IEC 11801-1
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	Yes

History

Update and Revision:	Revision Number: 0.19 Revision Date: 09-17-2024
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