



Product: <u>GRAHD40</u> ☑

Universal OFC MLT: LSZH + ARAMID + LSZH with 6 Tubes of Ø1.9mm 40f MM OM3.

Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with Low Smoke Zero Halogen inner jacket, aramid yarns as strength member and Low Smoke Zero Halogen outer jacket. Existing out of 6 tubes with a diameter of 1.9mm with 40 fibers (5t x 8f) MM OM3.

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 Count		Subunit Color	
OM3	40	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray		
Fiber Color (Coding:		TIA coding (Gxxxxxx.T): Blue, Orange, Green,	
Central Strength Member: GRP				
Cable Core	Water Tight:		Yes	
Cable Core	Waterblocking:		Waterblocking Aramid Yarns + Tape	
Bulk Cable V	Weight:		155 kg/km	

SubUnit Specifications

Number of Active Subunits:	5
Number of Subunit Positions:	6
Fibers Per Subunit:	8
Subunit Diameter:	1.9 mm
Subunit Waterblocking:	Gel Filled

Jacket Specifications

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

Inner Jacket

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

	Material		Nominal Diameter	Ripcord
	LSZH - Low Smoke Zero Halogen (Flam	e Retardant)	12.1 mm	Yes
Ī	Table Notes:	Standard co	lor: Orange. Available	e colors: O

Optical Characteristics

Max. Attenuation at 1300 nm:	0.9 dB/km
Max. Attenuation at 850 nm:	2.9 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	242 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	242 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	3900 N (877 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	1300 N (292 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: 0.35 Revision Date: 09-17-2024

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