



Product: [GAADF40](#)

Outdoor (ADSS) OFC MLT: ARAMID + PE with 6 Tubes of Ø2.5mm 40f SM OS2 G.657.A2.

Product Description

Outdoor dry core (ADSS) optical fiber Multi Loose Tube cable with aramid yarns as strength member and polyethylene outer jacket. Product feature: This cable has all dielectric and self-supporting properties. Existing out of 6 tubes with a diameter of 2.5mm with 40 fibers (5t x 8f) SM OS2 G.657.A2.

Technical Specifications

Product Overview

Construction Type:	Multi Loose Tube
Environmental Space:	Outdoor
Suitable Applications:	All dielectric self-supporting cable (ADSS) for Outdoor use. Particularly suitable for installation between poles with a max span of 150m. Initial sag at 20°C: 1% of span.

Construction

Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count	Subunit Color
OS2	G.657A2	40	TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray
Fiber Color Code:	TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black		
Central Strength Member Type:	GRP		
Cable Core Water Tight:	Yes		
Cable Core Water Blocking:	Waterblocking Aramid Yarns + Tape		
Bulk Cable Weight:	99 kg/km		

SubUnit Specifications

Number of Active Subunits:	5
Number of Subunit Positions:	6
Fibers Per Subunit:	8
Subunit Diameter:	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	Ripcord
PE - Polyethylene	Black	12.2 mm	Yes

Optical Characteristics

Maximum Attenuation at 1310 nm:	0.40 dB/km
Maximum Attenuation at 1550 nm:	0.30 dB/km
Maximum 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	244 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	244 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2850 N (641 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	950 N (214 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

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: 0.33 Revision Date: 09-17-2024
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