



Product: [GAAF172](#)

Outdoor (ADSS) OFC MLT: ARAMID + PE with 12 Tubes of Ø2.5mm 72f MM OM1.

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 12 tubes with a diameter of 2.5mm with 72 fibers (12t x 6f) MM OM1.

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 Count	Subunit Color
OM1	72	TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow
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:		192 kg/km

SubUnit Specifications

Number of Active Subunits:	9
Number of Subunit Positions:	12
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	17.0 mm	Yes

Optical Characteristics

Maximum Attenuation at 1300 nm:	0.9 dB/km
Maximum Attenuation at 850 nm:	3.4 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	340 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	340 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	3600 N (809 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	1200 N (270 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: 0.35 Revision Date: 09-17-2024
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