Belden

Product: GMRT102

Outdoor Tactical tight buffered OFC: GLASS YARNS (impr. rodent protection) PUR jacket 2f MM OM1.

Product Description

Outdoor Tactical tight buffered optical fiber cable with glass yarns as strength member and improved rodent protection with Polyurethane (PUR) outer jacket. 2 fibers MM OM1.

Technical Specifications

Product Overview

Construction Type:	Tactical
Environmental Space:	Indoor/Outdoor
Suitable Applications:	For outdoor and indoor use. These metal-free tactical cables have been designed for de-spooling and re-spooling repeatedly. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM Easy to install. Not Recommended for direct burial. Core bonded Polyurethane inner and outer jacket providing simple installation. Glass-rovings between inner and outer jacket for improved mechanical strength.

Material

Fiber Cable Construction

Fiber Type	Fiber Count
OM1	2

Fiber Color Code:	TIA coding (Gxxxxxx.T): Blue, Orange

Buffer Specification

Fiber Type	Buffer Construction	Buffer Material	Buffer Diameter
OM1	Tight	Nylon	0.9 mm

Cable Core Water Tight:	Yes
Cable Core Water Blocking:	Waterblocking Aramid Yarns + Glass Yarns
Bulk Cable Weight:	87 kg/km

Jacket Specifications

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

Inner Jacket

Material:	PUR - Polyurethane

Outer Jacket Specifications

Outer Jacket

Material	Color	Nominal Diameter	Ripcord
PUR - Polyurethane	Black	9.2 mm	No

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	73.6 mm	
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	36.8 mm	
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2400 N (540 lbf)	IEC 60794-2-20
Cable Max. Tensile Strength Operation (Long Term)		800 N (180 lbf)	
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	5 kN/m	IEC 60794-2-20
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	3 kN/m	IEC 60794-2-20

Temperature Range

Operating Temperature Range:	-70 °C to +85 °C
Installation Temperature Range:	-5 °C to +50 °C
Storage Temperature Range:	-70 °C to +85 °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: 0.37 Revision Date: 09-17-2024

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