



Part Number: GMRTF12

Outdoor Heavy Duty Tactical 12 Fibers G657A2-OS2

Product Description

Outdoor Heavy Duty Tactical Optical Cable 12 x 9/125-G657A2-OS2 A/I-V(ZN)11Y(ZN)11Y

Technical Specifications

Construction Type:	Tactical
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Product Overview

Environmental Space:	Indoor/Outdoor
Suitable Applications:	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

Construction

Fiber Cable Construction

Fiber Grade acc. ITU-T	Fiber Count
G657A2 & G657B2	12

Fiber Count:	12
Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua
Fiber Color Coding 2:	Europe coding (Gxxxxx.0): Red, Natural, Yellow, Blue, Green, Violet, Brown, Black, Orange, Aqua, Pink, White

Buffer Specification

Buffer Construction	Buffer Material	Buffer Diameter
Tight	PA - Polyamide	0.9 mm

Cable Core Water Blocking:	Waterblocking Aramid Yarns + Glass Yarns
Bulk Cable Weight:	104 kg/km

Physical Specifications

Fiber Buffer Diameter:	0.9 mm
Fiber Buffer Material:	PA - Polyamide

Jacket Specifications

Number of Jackets:	Double Jacket
Type of Armor:	Non-Armored
Nominal Diameter@InnerJacket1:	8.2 mm
Material@InnerJacket1:	PUR - Polyurethane

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PUR - Polyurethane	10.9 mm	0

Optical Characteristics

Fiber Core Diameter:	9 µm
Max Attenuation at 1310 nm:	0.4 dB/km
Max Attenuation at 1550 nm:	0.26 dB/km

Mechanical Characteristics

Min Bend Radius During Installation:	87.2 mm
Min Bend Radius During Operation:	43.6 mm
Max Tensile Strength During Operation:	1030 N (232 lbf)

Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E6	87.2 mm	
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E11	43.6 mm	
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	1030 N (232 lbf)	
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	5 kN/m	
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	3 kN/m	IEC 60794-2-20

Temperature Range

Operating Temp Range:	-55 °C to +85 °C
Installation Temp Range:	-5 °C to +50 °C
Storage Temp Range:	-70 °C to +85 °C

Tensile Strength

Max Tensile Strength During Operation - Test Standard:	IEC 60794-1-21-E1
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Standards

UL Rating/Flame Test:	Non-UL Rated
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (ROHS II):	Compliant
UV/ Sunlight Protection:	yes

History

Variants

Item #	Color	Length
GMRTF12.005100	Black	5,100 m

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