



Part Number: GIMTA06

Indoor Distribution 06 Fibers G657A1-OS2

Product Description

Indoor Mini Breakout Tight Optical Cable 06 x 9/125-G657A1-OS2 I-V(ZN)H

Technical Drawing



Technical Data Sheet

Fiber properties - EMEA

Introduction

This document provides technical data on the fibers used in Optical Fiber Cables produced in the EMEA region.

Optical Characteristics

Characteristics Single-Mode – Matched-Cladded optical fibers according to ITU

EMEA P/N Coding, Position 5	Fibre-Type	Mode-Field Cladding Diameter (µm)	Wave-length (nm)	Dispersion (ps/(nm·km))	PMDA (ps/km)	Cable Cut-off Wave-length (nm)
7	9/125 G.655 C&D	8.4 ± 0.6 125 ± 0.7	1550 1625	≤ 4.5 ≤ 7.9	≤ 0.04	≤ 1260
8	9/125 G.652D & G.657A1 BI OS2	9.2 ± 0.4 125 ± 0.7	1310 1550 1625	≤ 3.2 ≤ 17	≤ 0.06	≤ 1260
A	9/125 G.657A1 BI	8.9 ± 0.4 125.0 ± 0.3	1310 1550 1625	≤ 3.5 ≤ 18	≤ 0.06	≤ 1260
F	9/125 G.657A2 BI	8.9 ± 0.4 124.8 ± 0.3	1310 1550 1625	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260
I	9/125 G.657B3 BI	8.8 ± 0.4 125 ± 0.4	1310 1550 1625	≤ 3.5 ≤ 18	≤ 0.06	≤ 1260

Note A: Link design value

Characteristics Multi-Mode – Graded-Index optical fibers according to IEC 60793

EMEA P/N Coding, Position 5	Fibre-Type	Core/Cladding Diameter (µm)	Wave-length (nm)	Band-width (MHz·km)	Ethernet Performance (m)				Num. Apert. (µm)
					1 GBE	10 GBE	40 Gbps WDM	100 Gbps WDM	
1	62.5/125 OM1	62.5 ± 2.5 125 ± 1	850 1300	≥ 200 ≥ 600	220 550	33 300			0.275 ± 0.015
2	50/125 OM2 BI	50 ± 2.5 125 ± 1	850 1300	≥ 500 ≥ 500	600 600	83 300			0.20 ± 0.015
D	50/125 OM3 BI	50 ± 2.5 125 ± 1	850 1300	≥ 1500 ≥ 500	1000 550	300 300			0.20 ± 0.015
E	50/125 OM4 BI	50 ± 2.5 125 ± 1	850 1300	≥ 3500 ≥ 500	1100 550	550 300			0.20 ± 0.015
C	50/125 OM5 BI	50 ± 2.5 125 ± 1	850 1300	≥ 3500 ≥ 500			440	150	0.20 ± 0.015

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Technical Specifications

Product Overview

Construction Type:	Distribution
Environmental Space:	Indoor - Euroclass B2ca
Suitable Applications:	Structured (premises) wiring systems: building backbone (riser) and/or horizontal cabling (Fibre To The Desk). Support all computer network applications such as FDDI, Gigabit Ethernet and ATM

Construction

Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count
OS2	G657A1	6

Fiber Type:	OS2
Fiber Count:	6
Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White
Fiber Color Coding 2:	Europe coding (Gxxxxx.0): Red, Natural, Yellow, Blue, Green, Violet

Buffer Specification

Fiber Type	Buffer Construction	Buffer Material	Buffer Diameter
OS2	Tight	LSZH - Low Smoke Zero Halogen	0.9 mm

Bulk Cable Weight:	26 kg/km
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Jacket Specifications

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

Outer Jacket Material

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen	5.3 mm	0

Optical Characteristics

Fiber Core Diameter:	9 μm
Max Attenuation at 1310 nm:	0.39 dB/km
Max Attenuation at 1550 nm:	0.24 dB/km

Mechanical Characteristics

Min Bend Radius During Installation:	106 mm
Min Bend Radius During Operation:	53 mm
Max Tensile Strength During Installation:	900 N (202 lbf)
Max Tensile Strength During Operation:	450 N (101 lbf)

Temperature Range

Operating Temp Range:	-5 °C to +55 °C
Installation Temp Range:	-5 °C to +50 °C
Storage Temp Range:	-30 °C to +70 °C

Tensile Strength

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

Standards

UL Rating/Flame Test:	Non-UL Rated
CPR Euroclass:	B2ca-s1a,d1,a1
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (ROHS II):	Compliant
UV/ Sunlight Protection:	yes

History

Variants

Item #	Color
GIMTA06.012100	Black
GIMTA06.002100	Orange

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