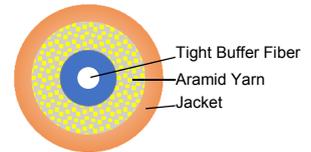




Simplex Fiber Optic Cordage

Description

The fibers, either single mode or multimode type, are 900µm Tight buffer fiber. A layer of Aramid yarn is applied around the Tight buffer fibers as strength member.



Application

This cable is suitable for Indoor jumper or interconnect between instruments and communication equipment.

Standards

ISO/IEC 11801, IEC-60793-2, ANSI/TIA 568-C.3, ITU G.651.1/G.652.D/G.657.A

Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance
- Low induced attenuation within the operating temperature range

Physical Properties

	No. of Fiber	Fiber	Buffer OD	Strength Member	Jacket	Weight
Material	1	245µm ±5µm	PVC	Aramid	PVC	kg/km
Dimension			600µm ±50µm		1.6mm ±0.5mm	3.65
			900µm ±50µm		2.0mm ±0.5mm	5.25
			900µm ±50µm		2.8mm ±0.5mm	7.8

Temperature range		°C	-20 to +60
Min. Bending Radius (mm)	Install	x Diameter	20
Min. Bending Radius (mm)	Static	x Diameter	10
Max. Tension (N)	Short-term	N	200
Max. Tension (N)	Long-term	N	100
Max. Crushing Resistance (N/100mm²)		N/100mm ²	1000

Part Number	Description
306-772001-a0yy	9/125 Simplex Single Mode Fiber Optic Cordage
4XG-552001-a0yy	OM4 50/125 Simplex Multimode Fiber Optic Cordage
3XG-552001-a0yy	OM3 50/125 Simplex Multimode Fiber Optic Cordage
306-552001-a0yy	OM2 50/125 Simplex Multimode Fiber Optic Cordage
306-662001-a0yy	OM1 62.5/125 Simplex Multimode Fiber Optic Cordage

Note:

1. Substitute : yy = 16(Ø1.6mm), 20(Ø2.0mm), 28(Ø2.8mm)
2. a = production code, subjected to change upon shipping
3. Available in G657A1 and G657A2, upon request



Optical Properties

		SM G652.D	OM4 50/125 μm	OM3 50/125 μm	OM2 50/125 μm	OM1 62.5/125 μm
Attenuation (+ 20 °C)	@ 850 nm	-	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km
	@ 1300 nm	-	≤ 1.0 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km
	@1310 nm	≤ 0.36 dB/km	-	-	-	-
	@1550 nm	≤ 0.22 dB/km	-	-	-	-
Bandwidth (Class B)	@ 850 nm	-	≥ 3500 MHz-km	≥ 1500 MHz-km	≥ 500 MHz-km	≥ 200 MHz-km
	@ 1300 nm	-	≥ 500 MHz-km	≥ 500 MHz-km	≥ 500 MHz-km	≥ 500 MHz-km
Effective modal bandwidth	@ 850 nm	-	≥ 4700	≥ 2000	-	-
Cable Cut-off Wavelength , λ_{cc}		≤ 1260 nm	-	-	-	-