

Simplex Cable



Optical Cable Specifications

Application

Topscom Simplex cable, consists of simplex tight buffered cable, surrounded by aramid yarn strength members with either PVC or LSOH material jacket. Simplex cable can also be bundled as the fan-out or breakout cable for indoor wiring. Various core/cladding sizes are available in zipcord style. For 62.5/125 μ m multimode fiber, Both zipcord and round-duplex are available.

Cable features

This type of cable consists of two simplex tight buffered cables.

- simplex tight buffered cables
- SZ stranded simplex cable
- ϕ 900 μ m tight buffered fibre
- PVC or Low Smoke Zero Halogen (LSOH) jacket material is available.
- Color coding complies with TIA/EIA-598B

Optical fibre specifications – Singlemode

Fibre Type	S9	
Wavelength (nm)	1310	1550
Core/Cladding (μ m)	9/125	
Mode-Field Diameter (μ m)	$(9.2\sim 9.3) \pm 0.5$	$(10.4\sim 10.5) \pm 1.0$
Attenuation (dB/km)	0.5	0.4
Max. Attenuation (dB/km)	1.0	0.75

Optical fibre specifications – Multimode

Fibre Type	M5		M6	
Wavelength (nm)	850	1300	850	1300
Core/Cladding (μm)	50/125		62.5/125	
Numerical Aperture	0.2 ± 0.02		0.275 ± 0.015	
Attenuation (dB/km)	3.0	1.0	3.0	1.0
Max. Attenuation (dB/km)	3.75	1.5	3.5	1.5
Performance (MHz.km)	≥ 160	≥ 400	≥ 500	≥ 800

Mechanical Specifications

Fibre Count	1				
Outer Diameter (mm)	1.6	1.8	2.0	2.4	3.0
Weight (kg/km)	2.9	3.2	3.5	5.0	6.8
Max Tensile Load (N)	Short -Term	400			
	Long -Term	160			
Min Bend Radius (mm)	Short -Term	10 times of outer diameter			
	Long -Term	15 times of outer diameter			
Jacket Material	PVC or LSOH				
Operating Temperature	-40°C to +60°C or -20°C to +60°C				