

8107-16

Composite Fiber Optic Cable



Composite Fiber Optic Cable is a specialized type of cable that combines both optical fibers for data transmission and electrical conductors for power delivery. It provides both data and power to devices over long distances at a lightning-fast speed, which makes it ideal for use in scenarios where power is not readily available or in areas with high electromagnetic interference.

Typical Application

- Retail
- Convenience Store
- Workshop
- Logistics center
- and others



Specification

Specification Value	
Fiber	G.657A1
Tail Dimensions	OD 3.0 Armor + PVC Waterproof Simplex Tail Staggered Configuration
Cable Construction	Single Jacket, Single Armored
Terminations	LC - UPC
Cable Diameter	2 Core Max OD 4.8/ 5.4 ± 0.3 mm
Crush Resistance	3000N/100mm
Cable Tensile Strength	2 Core (Installation) 890N
Cable Strength Member	E-Glass
Storage Temperature	-40 ~ +70°C (-40F ~158°F)
Installation Temperature	-30 ~ +70°C (-22F ~158°F)
Operating Temperature	-40 ~ +70°C (-40F ~158°F)
Tail Protection	Crush Resistance Armor + PVC jacket - OD Max 15mm
Pulling element	Standard for assembly length above 20m
Packaging	Length ≤ 100 Coil in heavy duty polymer bag Length > 100 Drum

FiberType (ISO/IEC 11801)	
Attenuation Coefficient [dB/km]	≤ 0.38Max(1310nm) ≤0.25 Max(1550nm) ≤0.34Typ(1310nm) ≤0.19 typ (1550nm)
Conductor Type	
Conductor Material	Bare copper
Jacket Material	Fire retardant PVC
Conductor Gauge	20 AWG
Dielectric Strength	6000 VDC
NO of Conductors	3
TERMINATION PERFORMANCE	
IL Max/Master (Acc)	0.25dB
Ave/Master	0.18dB
Ave/Random	0.18dB

