8107-39

300M 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 Wateproof Simplex Tail Staggered Configuration
Cable Construction	Single Jacket, Single Armored
Terminations	LC - UPC
Cable Diameter	2 Core Max OD 11.5/ 16.5 ± 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 + PE jacket - OD Max 16.5mm
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 PE + Armored
Conductor Gauge	18 AWG
Dielectric Strength	600 VDC
NO of Conductors	3 (2 x18awg + 1 x 20awg)
TERMINATION PERFORMANCE	
IL Max/Master (Acce	0.25dB
Ave/Master	0.18dB
Ave/Random	0.18dB

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