FTTX Solutions
Hardened Drop Cables

The Pre-terminated optical drop cables connect new subscribers to the access network. They are easily pluggable into the optical termination boxes (Pre-terminated CTOs), in a way that there is no need to open the closure to activate new subscribers. The connector is pre-terminated in factory, so the link loss can be lower than traditional deployment way. It enhances the stability and reliability of optical link and reduces the implementation time and cost.

FEATURES

- Compatible to Optitap hardened adaptor
- Plug & play ， easy to install
- Pre-connecterized in factory, stability and reliability
- Protection Level: IP68

APPLICATION

- FTTX
- Fiber Optic Terminal Box
- Fiber Optic Distribution Box

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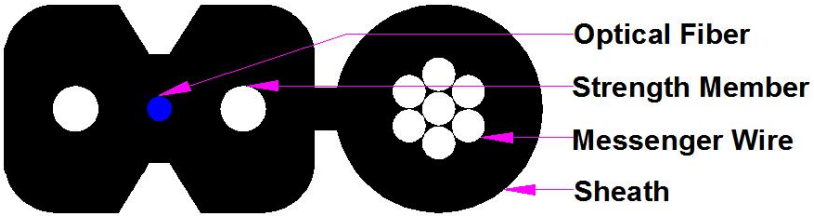
SPECIFICATIONS

Item	Specification
Connector polish type	SCAPC
Insertion Loss (dB)	<0.2(typical), <0.3 (max)
Return Loss (dB)	>60
Tensile Strength	200N
Static Side Strength	50N
Working temperature (℃)	-25~+70
Storage temperature (℃)	-25~+70

FIBER OPTIC CABLE DATAS



Item	Material	Description
Fiber	Silicon-based fiber	G657A2
Messenger Wire	Galvanized steel wire strands	1.0mm(0.33*7)
Strength Member	Galvanized steel wire	0.4mm*2
Sheath	LSZH	UV Resistance Black
Cable O.D.	5.0*2.0± 0.10mm	

Cable main mechanical properties and application

Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	600N
2	Allowable tensile strength (N)(long term)	300N
3	Application	Aerial cable
4	Operation temperature	-25 °C to +70 °C

G.657A2 fiber characteristics		
Optics specifications		
Attenuation	@1310nm	≤0.35dB/km
	@1550nm	≤0.22dB/km
	@1625nm	≤0.40dB/km
Zero- Dispersion wavelength		1300nm ~ 1324nm
Zero- Dispersion slope		≤0.092ps/(nm2 · km)
Mode field diameter (MFD) at 1310nm		8.7±0.5 μm
Mode field diameter (MFD) at 1550nm		9.7±0.5μm
Cable cutoff wavelength λcc(nm)		≤1260nm
Point discontinuity		≤0.05dB
Geometrical characteristics		
Cladding diameter		125±1.0μm
Cladding non- circularity		≤2%
Core/ cladding concentricity error		≤1.0μm
Fiber diameter with coating (uncolored)		245±10μm
Cladding/ coating concentricity error		≤12.0μm
Mechanical characteristics		
Proof stress		≥0.69GPa(100kpsi)
Macrobend loss at 1550nm	R=7.5mm,1 turns	≤0.5dB
	R=10mm,1turn	≤0.1dB
	R=15mm,10turn	≤0.03dB
Macrobend loss at 1625nm	R=7.5mm,1 turns	≤1.0dB
	R=10mm,1turn	≤0.2dB
	R=15mm,10turn	≤0.1dB