

FTTA MINI IP CABLE

Mini IP MPO



FEATURES

- Cost effective solution for in house termination.
- Low insertion loss and added loss.
- Height of attenuation.
- Water proof, dust proof and corrosion resistant
- The material in the jumpel cable are all-weather and UV-resistant.
- IP68 water and dust protection.
- Mechanical performance: IEC 61754-7 standard.
- RoHS and REACH materials compliant.



APPLICATION

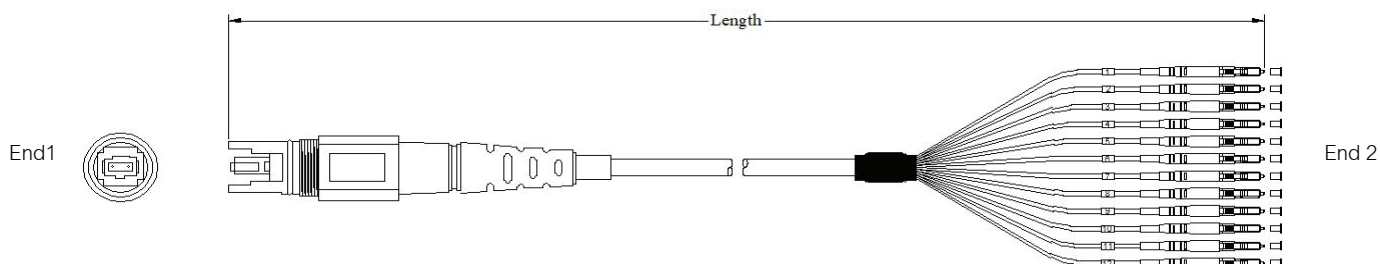
- Multi-purpose Outdoor.
- For connection between distribution box and RRH.
- Deployment in Remote Radio Head cell tower applications.

CONNECTOR TYPES

Type	Reference		Note
MPO	IEC 61754-7	Single mode	APC: Black connectors
		Multimode	PC: Black Connectors
MTP	IEC 61754-7	Single mode	APC: Black connectors
		Multimode	PC: Black Connectors

DIMENSIONAL DIAGRAMS

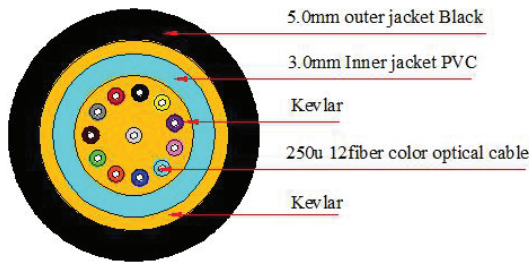
PDLC Outdoor cable Assemblies



PATCH CORD VERSIONS

Jumper tolerance requirement	
Overall length (L)(M)	length of tolerance (CM)
$0 < L \leq 20$	+10/-0
$20 < L \leq 40$	+15/-0
$L > 40$	+0.5%L/-0

CABLE STRUCTURE



CABLE PARAMETERS

Cable Count	Out sheath Diameter (MM)	Weight (KG)	Minimum allowable Tensile Strength (N)		minimum allowable Crush Load (N/100mm)		Minimum Bending Radius (MM)		Storage temperature (°C)
			short term	long term	short term	long term	short term	long term	
8/12/24	5.0±0.3	32	500	250	750	300	20D	10D	-20 ~ +60

OPTICAL CHARACTERISTICS

Item	Single mode		Multimode		Reference
Insertion loss	Typical ≤ 0.30dB	Typical ≤ 0.15dB	Typical ≤ 0.50dB	Typical ≤ 0.10dB	IEC 61300-3-34
	Max ≤ 0.75dB	Max ≤ 0.35dB	Max ≤ 0.25dB	Max ≤ 0.35dB	
Return loss	≥ 50dB (PC)	≥ 55dB (PC)	≥ 30dB (PC)	≥ 30dB (PC)	IEC 61300-3-6
	≥ 60dB (APC)	≥ 65dB (APC)			

END-FACE GEOMETRY

Ferrule parameter		IEC-61300--3-30		
		Minimum	Maximum	
ROC	ROC-X:	2000mm	∞	
	ROC-Y:	50mm	∞	
Angle	Angle-X:	-0.2°	0.2°	
	Angle-Y:	PC	-0.2°	0.2°
		APC	7.85°	8.15°
Fiber Hight:		1000nm	3500nm	
Max.DH.All:		-300nm	300nm	
DH.Adj:		-300nm	300nm	
DH.Ave Fiber:		-300nm	300nm	
Core Dip	MM	-200nm	300nm	
	SM	N/A	N/A	
Ferrule height		7.9mm	8.05mm	

END-FACE QUALITY (SM)

Zone	Range (µm)	Scratches	Defects	Reference
A: Core	0 to 25	None	None	IEC 61300-3-35:2015
B: Cladding	25 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	

END-FACE QUALITY (MM)

Zone	Range (µm)	Scratches	Defects	Reference
A: Core	0 to 65	None	None	IEC 61300-3-35:2015
B: Cladding	65 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	

MECHANICAL CHARACTERISTICS

Test	Conditions	Reference
Endurance	500 matings	IEC 61300-2-2
Vibration	Frequency: 10 to 55Hz, Amplitude: 0.75mm	IEC 61300-2-1
Cable retention	400N (main cable); 50N (ranch part)	IEC 61300-2-4
Strength of coupling mechanism	80N for 2 to 3mm cable	IEC 61300-2-6
Cable torsion	15N for 2 to 3mm cable	IEC 61300-2-5
Fall	10 drops, 1m drop height	IEC 61300-2-12
Static lateral load	1N for 1h (main cable); 0.2N for 5min (ranch part)	IEC 61300-2-42
Cold	-25°C, 96h duration	IEC 61300-2-17
Dry heat	+70°C, 96h duration	IEC 61300-2-18
Change of temperature	-25°C to +70°C, 12 cycles	IEC 61300-2-22
Humidity	+40°C at 93%, 96h duration	IEC 61300-2-19

ORDER INFORMATION

PRODUCT	PART NUMBER
Mini IP MPO	F-FTTA-MNIP-MPO