FTTA ODVA OUTDOOR CABLE

ODVA MPO Outdoor Cable

FEATURES

- Cost effective solution for in house termination.
- Low insertion loss and added loss.
- Height of attenuation.
- IP67 water, dust proof and corrosion resistant
- The material in the jumpel cable are all-weather and UV-resistant.
- Mechanical performance: IEC 61754-7 standard.
- RoHS and REACH materials compliant.

APPLICATION

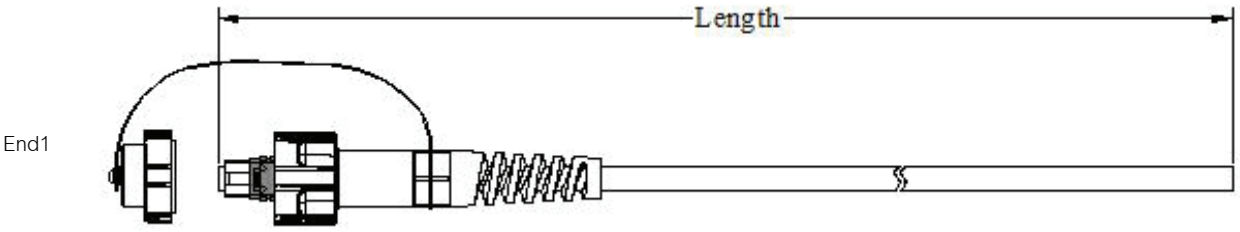
- Multi-purpose Outdoor.
- For connection between distribution box and RRH.
- Deployment in Remote Radio Head cell tower applications.

CONNECTOR TYPES

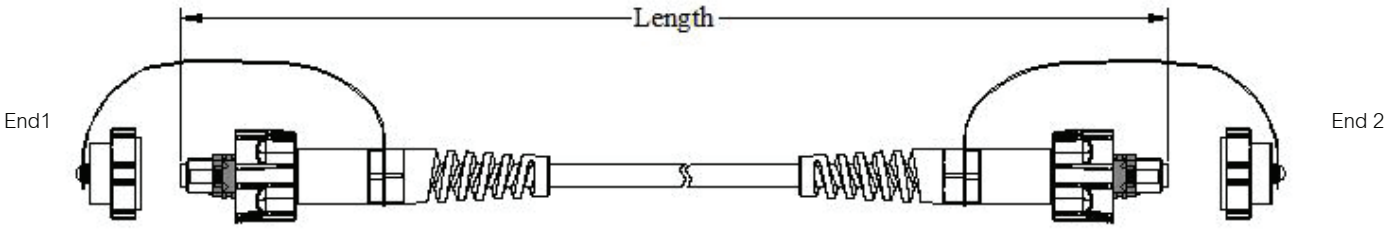
Type	Reference		Note
MPO	IEC 61754-7	Single mode	APC: Black connectors
			APC: Black connectors
		Multimode	PC: Black Connectors
MTP	IEC 61754-7	Single mode	APC: Black connectors
			APC: Black connectors
		Multimode	PC: Black Connectors

DIMENSIONAL DIAGRAMS

ODVA(MPO&MTP) Outdoor Cable Assemblies



ODVA(MPO&MTP) Outdoor Cable Assemblies



PATCH CORD VERSIONS

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

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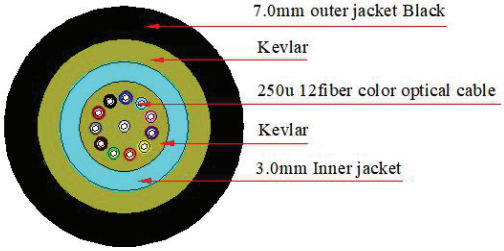
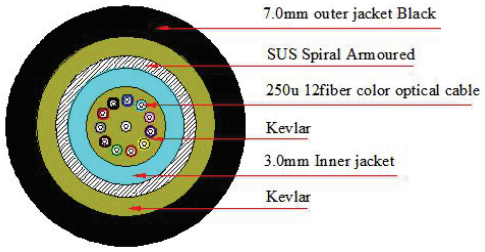
CABLE STRUCTURE



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 (℃)
			short term	long term	short term	long term	short term	long term	
8/12/24	7.0±0.3	35	600	250	800	300	20D	10D	-20 ~~ +70

CABLE STRUCTURE



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			short term	long term	short term	long term	short term	long term	
8/12/24	7.0±0.3	45	1000	600	3000	1000	20D	10D	-20 ~~ +70

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

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END-FACE QUALTY (SM)

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

END-FACE QUALTY (MM)

Zone	Range (μm)	Scratches	Defects	Reference
A: Core	0 to 65	None	None	
B: Cladding	65 to 115	None	None	
C: Adhesive	115 to 135	None	None	IEC 61300-3-35:2015
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 INFOMATION

PRODUCT	PART NUMBER
ODVA MPO Outdoor Cable	F-FTTA-ODVA-MPO

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