

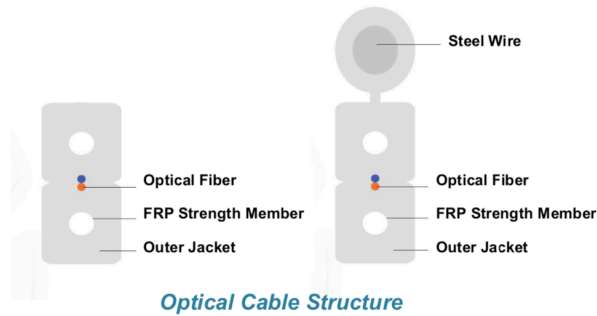
PRE-TERMINATED OPTICAL INDOOR/OUTDOOR DROP CABLE



General Description

Optical Indoor/Outdoor Drop Cable (OIDC) is specially designed for MDU fiber deployment and outdoor application. The cables is lightweight and fire retardant

The cables meet the relevant IEC specifications: IEC 60794-1 and IEEE-383 standard or SS29 standard.



Features

- Cable Split design - ease of stripping and exposing the fibers with no additional tools.
- To withstand 500N pulling strength required during installation work.
- Presently, this is the most common, most economic and simplest Indoor Cable Solution.
- Small diameter, FRP strength member to protect the fiber and easy to bend
- Excellent mechanical properties to avoid any damages caused by rodent and other animals
- Optical performance and macro bending loss performance duly complied to ITU-T compliance.
- G.657 Class A single mode fiber

Application

- Widely used in the FTTH, horizontal and high density installation
- Simple structure, anti press, anti pull, anti aging
- Connection between dome closure and small dwelling units

APPROVED BY



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SPECIFICATIONS

Application	Indoor/Outdoor drop cable
Fiber Count	1, 2, 4, 6, 8, 12
Fiber Diameter	250 ± 15µm
Strength member	FRP (additional Steel Wire for Integral Bearer (IB) type)
Outer Sheath	Flame retardant PE (HEFRPE) sheath
Optical Cable Diameter	2x3.1 mm (1C and 2C drop cable)
Cable weight	10kg/km (without IB); 15.6kg/km (with IB)
Fiber Type	ITU-T G657A1
Max. Tensile Load	500N
Min. Bend Radius	15mm (without IB), 20mm (wit IB)
Packing	1000m or 2000m
Jacket Color	White or Black



Features

- Available in FC, SC, ST, LC, SMA, and E2000
- Available in Simplex, Duplex and Hybrid versions
- High precision zirconia ceramic ferrule protected by dust cap
- Low insertion loss, high repeatability and stability
- Free from index matching gel
- Premium connector with ORL ≥ 55 dB for UPC and 65dB for APC^{*1}
- Operating temperature in compliance with IEC 61753-1 Table A.1
- Latching mechanism in accordance to IEC61754^{*2}

SPECIFICATIONS

Connector Type	FC, SC, ST, LC, SMA, E2000	
Fiber Type	SM	
Polishing	UPC ^{*1}	APC ^{*1}
Insertion Loss (dB) ^{*3}	≤ 0.2	≤ 0.2
Return Loss (dB) ^{*4}	≥ 55	≥ 65
Cable Diameter (mm)	$\Phi 3, \Phi 2, \Phi 0.9$	
Exchangeability (dB)	≤ 0.2 (Randomly connected)	
Vibration (dB)	≤ 0.2 (5~50Hz, 1.5mm amplitude)	
Temp. Range (dB)	≤ 0.2 (-40° C ~ 80° C, 21 Cycles)	
Lifetimes (times)	> 500 mating (exceeded the requirement in accordance to IEC 61300-2)	

Note:

*1 Differentiated by color: dark blue for UPC; green for APC

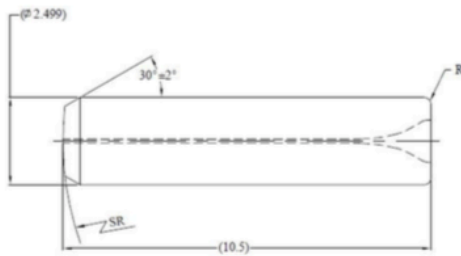
*2 Latching mechanism with adapter in accordance with IEC61754-2 for ST connectors; -4 for SC connectors; -13 for FC connectors; -15 for E2000 connectors; -20 for LC connectors

*3 Tested against reference jumper in accordance with IEC61300-3-4 Method B (against Master)

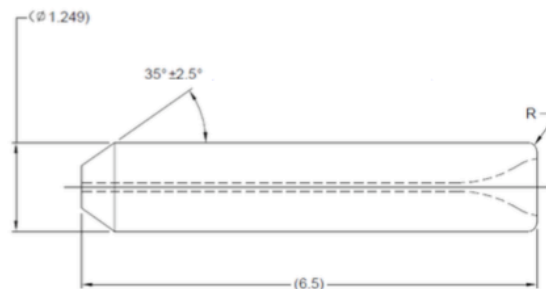
*4 Tested in accordance with IEC61300-3-6

ZIRCONIA FERRULE GEOMETRY SPECIFICATIONS^{*1}

End-face Polishing		UPC	PC	APC
Radius of Curvature (mm)	SC	7~25	5~30	5~12
	LC	7~25	5~30	5~12
Apex Offset (μ m)		≤ 50	≤ 70	≤ 50
Fiber Undercut		-90nm (Undercut), $< +50$ nm (Protrusion)		-90nm (Undercut), $< +100$ nm (Protrusion)
Angle Deviation (°)		—		8 ± 0.5
Diameter Tolerance (m)		SC/E2000/FC/ST: 2.5 ± 0.5 ; LC: 1.25 ± 0.5		



Ferrule Geometry Specification for SC (UPC) Polishing



Ferrule Geometry Specification for LC (UPC) Polishing

ORDERING INFORMATION

EXAMPLE : O IDC-E7A1LW1FCU0010

