

# FTTH DROP CABLE

## ROUND Type

### DESCRIPTION

This tight buffered optic round drop cable is designed for last-mile FTTH access network. It has 1, 2 and 4 optical fiber with 0.9 or 0.6mm buffered, which is placed in dielectric aramid yarn and covered in flame retardant and UV resistant outer jacket.



### OPTICAL FIBER

PARAMETER	SPECIFICATION( ITU-T G. 657 B3)
<b>Optical Characteristics</b>	
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	$\leq 0.40$ dB/km $\leq$ @1310 nm dB/km loss↓ $\leq 0.30$ dB/km $\leq 0.35$ dB/km
Attenuation vs. Wavelength Max. $\alpha$ difference	$\leq 0.03$ dB/km at 1285 ~ 1330 nm $\leq 0.02$ dB/km at 1525 ~ 1575 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	$\leq 0.092$ ps/(nm <sup>2</sup> .km)
PMD Maximum Individual Fiber	$\leq 0.1$ ps/km <sup>1/2</sup>
Cable cut-off wavelength	$\leq 1260$ nm
Mode field diameter @ 1310 nm	$8.8 \pm 0.4$ $\mu$ m
<b>Geometrical Characteristics</b>	
Cladding diameter	$125.0 \pm 0.7$ $\mu$ m
Cladding non-circularity	$\leq 0.7$ %
Coating diameter	$245 \pm 5$ $\mu$ m
Coating-Cladding concentricity error	$\leq 12.0$ $\mu$ m
Coating Non-circularity error	$\leq 6.0$ %
Core-Clad concentricity error	$\leq 0.5$ $\mu$ m
Curl (Radius)	$\geq 4$ m

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### CABLE CONSTRUCTION

ITEMS	DESCRIPTION
Number of Fiber	1,2 and 4
Tight Buffer Coating	Outer diameter : 600, 900 $\mu$ m
Dielectric Strength Member	Aramid Yarns
Outer Jacket	LSZH (Low Smoke Zero Halogen)
Outer diameter	1 fiber : 900um tight buffer, 3.0mm 4 fiber : 600um tight buffer, 3.6mm 2 fiber : 900um tight buffer, 4.6mm (Double Jacket)

### RELIABILITY REQUIREMENT

ITEMS	TEST METHOD AND ACCEPTANCE CRITERIA
Tensile Loading Test	# Test method: TIA/EIA-455-33A -. Attenuation increment: $\leq 0.20$ dB
Compressive Test	# Test method: TIA/EIA-455-41A -. Attenuation increment : $\leq 0.20$ dB
Impact Test	# Test method: TIA/EIA-455-25B -. Attenuation Increment: $\leq 0.20$ dB
Cyclic Flexing Test	# Test method: TIA/EIA-455-104A -. Attenuation Increment: $\leq 0.20$ dB
Temperature Cycling Test	# Test method: TIA/EIA-455-3A -.Attenuation Increment: $\leq 0.30$ dB/km

### ORDERING INFORMATION

PRODUCT	PART NUMBER	DESCRIPTION
Round Type Drop Cable	FODC-R30-S1C(A2)09LZ-KV-30LZ	Fiber Optic Drop Cable 3.0mm Round type, 1C, G.657.A2 0.9mm TB, Kevlar, 3.0mm, LSZH
	FODC-R36-S4C(B3)06LZ-KV-36LZ	Fiber Optic Drop Cable 3.6mm Round type, 4C, G.657.B3 0.6mm TB, Kevlar, 3.6mm, LSZH
	FODC-R46-S2C(A2)09LZ-KV-46LZ	Fiber Optic Drop Cable 4.6mm Round type, Double Jacket 2C, G.657.A2, 0.9mm TB, Kevlar, 4.6mm, LSZH