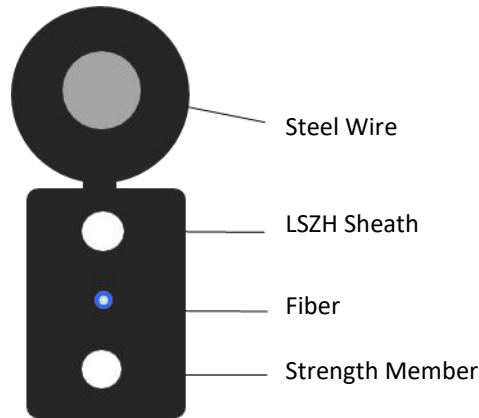


CABLE STRUCTURE



FIBER CHARACTERISTICS

Item		Description
Fiber Manufacturer		Sumitomo
Mode Field Diameter		8.6um to 9.5um with $\pm 0.4\mu\text{m}$ MFD tolerance.
Cladding Diameter		125.0 um with $\pm 0.7\mu\text{m}$ cladding diameter tolerance.
Wavelength Region		1310nm, 1550nm, 1490 and 1625nm
Core Concentricity Error		$\leq 0.5\mu\text{m}$
Fiber Material		High grade silica and single mode type
Cladding Non Circularity		$\leq 1\%$
Cable Cut Off Wavelength		$\leq 1260\text{nm}$
Polarization Mode Dispersion (PMD)		$\leq 0.2\text{ps}/\sqrt{\text{km}}$
Proof Stress		$\geq 0.69\text{Gpa}$
Fiber Lifespan		20 Years
Macro Bending Loss	$\Phi 15\text{mm}$, 10Circle, at 1550nm	$\leq 0.25\text{dB}$
Fiber Attenuation Coefficient in Cable	dB/km(1310nm)	$\leq 0.4\text{dB}/\text{km}$
	dB/km(1550nm)	$\leq 0.3\text{dB}/\text{km}$
Chromatic Dispersion Coefficient	Zero Dispersion Slope	$\leq 0.092\text{ps}/\text{nm}^2.\text{km}$
	Zero Dispersion Wavelength	1300nm to 1324nm

CABLE CONSTRUCTION AERIAL DROP CABLE

Item		Description
Cable Diameter		$(2.0 \pm 0.1) \times (5.3 \pm 0.2)\text{mm}$
Approx. Cable Net Weight		21kg/km
Central Strength Member	Material	FRP
	Outer Diameter	$0.50 \pm 0.02\text{mm}$
Steel Wire	Material	Phosphating Steel Wire with glue
	Diameter	$1.0 \pm 0.03\text{mm}$
Optical Fiber	Type	G .657A1
	Numbers of core	1
	Fiber Color	Blue
LSZH Sheath of Cable	Material	BLACK LSZH with UV resistance
LSZH oxygen index		≥ 27

Note : Specifications are subject to change without notice

MECHANICAL AND PHYSICAL CHARACTERISTICS OF THE AERIAL DROP CABLE

Cable Type	Tensile Strength (N)		Crush Resistance Strength (N/100mm)		Min. Bending Radius (mm)	
	Short Term	Long Term	Short Term	Long Term	Dynamic	Static
PH-AODC-I17A1LB1-1000	600	300	2200	1000	20H	10H
Operation Temperature:-40°C~+60°C						

CABLE TESTING

Mechanic Performance

Item	Test standard
Tension	IEC 60794-1-2-E1
Impact Resistance	IEC 60794-1-2-E4
Crush	IEC 60794-1-2-E3
Repeat Bending	IEC 60794-1-2-E8
Twist	IEC 60794-1-2-E7
Cable Bending	IEC 60794-1-2-E11B

Environment Performance

Item	Testing Method
Temperature cycling	IEC 6094-1-2-F1
Water penetration	IEC 60794-1-2-F5
Compound drip	IEC 60794-1-2-E14

CABLE MARKING

Unless otherwise required the sheath will be marked at intervals of 1m, containing:

- 1) Manufacturer's Name
- 2) Sequential meter
- 3) Month and year of manufacturer
- 4) Fiber count
- 5) Fiber type

The marks will be permanent and legible for the duration of the cable life.

Note : Specifications are subject to change without notice