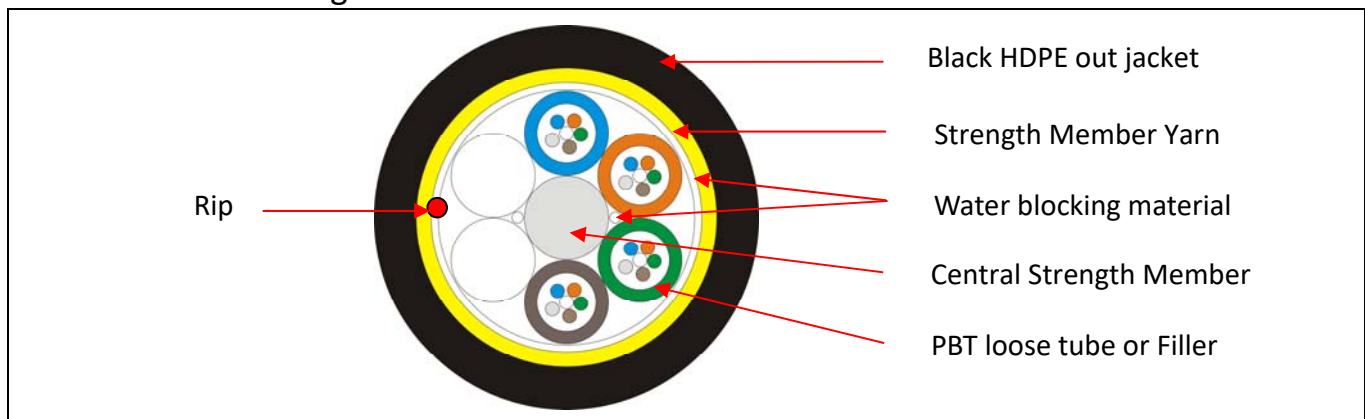


Loose Tube Span 150m ADSS Optical Cable

Product structure diagram



Cable Specification

No. of Fibers			12	24	48	96
No. of Tubes			2	4	4	8
Fiber counts in Tube			6	6	12	12
Diameter of Tuber/Filler		mm	2.0±0.2	2.0±0.2	2.2±0.2	2.4±0.2
Loose Tube			PBT tube filled with jelly			
Central Strength Member			FRP			
Cable water blocking material			Water blocking yarn and tape			
Dielectric strength members			Aramid yarns			
Cable Diameter		mm	9.8±0.5	9.8±0.5	11.45±0.5	13.0±0.5
Out jacket	material		MDPE			
	color		Black			
Nominal Cable Weight		Kg/km	75	75	99	130
Span		m	150			
Tension RTS		N	4000			
Crushing		N/100mm	1000			
Min. Bending Radius			Dynamic/ Static :20 /10 Cable OD			
Temperature		°C	Installation/Operating :-20~+60/-40~+70			
Drum Size Nominal	m/Drum		4000±10%			
	Kg/Drum		350±10%	350±10%	420±10%	570±10%
	D*W		1000*750	1000*750	1150*750	1250*750

Colour Identification of Fibre

Number	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Colour Identification of Tube

Number	1	2	3	4	5	6	7	8
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black

Parameters of fiber

Characteristics		Acceptance Value
Attenuation	@1310nm	$\leq 0.35\text{dB/km}$
	@1383nm	$\leq 0.34\text{dB/km}$
	@1550nm	$\leq 0.21\text{dB/km}$
	@1625nm	$\leq 0.23\text{dB/km}$
Mode Field Diameter	@1310nm	$9.1 \pm 0.4\mu\text{m}$
	@1550nm	$10.3 \pm 0.5\mu\text{m}$
Dispersion	@1300 +30/- 15nm	$\leq 3.5\text{ps}/(\text{nm} \cdot \text{km})$
	@1550nm	$\leq 17.5\text{ps}/(\text{nm} \cdot \text{km})$
	@1625nm	$\leq 22\text{ps}/(\text{nm} \cdot \text{km})$
Zero-Dispersion wavelength		1300nm~1324nm
Zero-Dispersion slope		$\leq 0.090\text{ps}/(\text{nm}^2 \cdot \text{km})$
Cable cutoff wavelength λ_{cc} (nm)		$\leq 1260\text{nm}$
Polarization ispersion (PMD)	Max. individual	$\leq 0.20\text{ps}/\text{km}^{1/2}$
Cladding diameter		$125 \pm 0.7\mu\text{m}$
Cladding non-circularity		$\leq 0.7\%$
Core/cladding concentricity error		$\leq 0.5\mu\text{m}$
Fibre diameter with coating (uncoloured)		$242 \pm 5\mu\text{m}$
Cladding/coating concentricity error		$\leq 12.0\mu\text{m}$
Proof stress		$\geq 0.69\text{GPa}(100\text{kpsi})$
Dynamic stress corrosion susceptibility parameter (typical value)		≥ 20