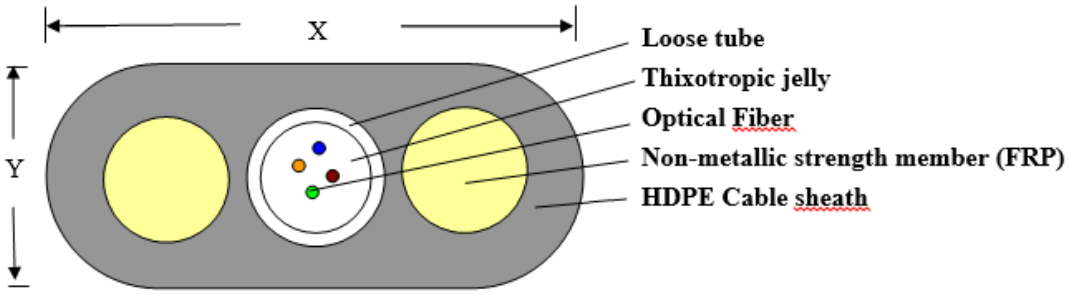
NEWLINK
Cabling Systems

NEW-9449XXX

Fiber Optic Cable - ADSS FLAT

Features:

- Compact flat profile
- Fiber Type: Loose Tube
- Number of Fibers: 2 - 12



Optical fiber characteristics

Category	Description		Specifications
			G.652
Optical Specifications	Attenuation	@1310nm	≤0.36dB/km
		@1550nm	≤0.22dB/km
	Attenuation discontinuity		≤0.05 dB
	Attenuation vs. Wavelength	@1285~1330nm	≤0.05 dB/km
		@1525~1575nm	≤0.05 dB/km
	Zero Dispersion Wavelength		1300~1324nm
	Zero Dispersion Slope		≤0.092ps/(nm^2.km)
	Dispersion	@1310nm	≤3.5 ps/nm.km
		@1550nm	≤18 ps/nm.km
	Polarization Mode Dispersion(PMD)		≤0.2ps/km$^{1/2}$
	Cable Cutoff Wavelength(λcc)		≤1260nm
	Effective Group Index of Refraction	@1310nm	1.4675
		@1550nm	1.4681

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Geometric Specifications	Mode Field Diameter	@1310nm	9.2±0.6μm
	Cladding Diameter		125±1μm
	Cladding Non-Circularity		≤1.0%
	Coating Diameter		243±7μm
	Coating/Cladding Concentricity Error		≤12μm
	Core/Cladding Concentricity Error		≤0.8μm
Mechanical Specifications	Proof Test level		≥1.0%
	Fiber Curl Radius		≥4.0m
	Peak Coating Strip Force		1.3~8.9N

Item		**Description**
Fiber counts of cable		2/4/6/8/10/12
Loose tube	Material	PBT
	Diameter(mm)	Nom.2.5
	Filling compound Material	Thixotropic jelly
Strength member	Material	FRP
Cable sheath	Material	Black HDPE
	Width（X）*height(Y) (mm)	Nom. 8.7*4.6
Tensile strength		1200N
Crush Resistance		1000N/10cm
Bending Radius	Dynamic	≥250mm
	Static	≥150mm
Operating Temperature		-40 --- +70℃

The color coding of the optical fiber shall be in accordance with the table

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No. of fiber	1	2	3	4	5	6	7	8
Color of fiber	Blue	Orange	Green	Brown	Grey	White	Red	Black

Test Requirements

No	Item	Test standard	Method	Acceptance criteria
1	Tensile test	IEC-60794-1-E1	-Max. Tensile strength:1200N -Sample length:50 meters -Time: 1minute;	-Attenuation increase≤0.10dB
2	Crush test	IEC-60794-1-E3	-Load:1000N -Time: 1 minute -Length: 100mm	-No splits or cracks in the outer jacket; -Attenuation increase<0.10dB,
3	Impact test	IEC-60794-1-E4	-Impact energy: 300g - Height:1 meter -Impact points: min.1 --Number of impacts: 5	-No splits or cracks in the outer jacket -Attenuation increase≤0.10dB(After the test)
4	Repeated bending	IEC-60794-1-E6	-Radius=250mm -1m cable length with 100N weight,30 cycles	- No splits or cracks in the outer jacket -Attenuation increase ≤0.10dB(After the test)
5	Temperature cycling test	IEC-60794-1-F1	-Temperature step: +20℃→-40℃→+70℃→-40℃→ +70℃→+20℃ -Time per each step: 12 hrs -Number of cycles: 2 cycles	-Attenuation variation for reference value(the attenuation to be measured before test at +20±3℃) ≤0.10dBkm,
6	Water penetration test	IEC-60794-1-F5	-Water height: 1m -Sample length:3m -Duration of test: 24hrs	-No water leakage at the end of the sample
7	Drip test	IEC-60794-1-E14	-Five 0.3m samples suspended vertically in a climate chamber, raised temperature to +70℃	-No filling compound shall drip from tubes after 24 hr

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Ordering Information:

Part Number	Description
NEW-9449XXX	Fiber Optic Cable – Singlemode ADSS Flat

XXX = Number of Fibers