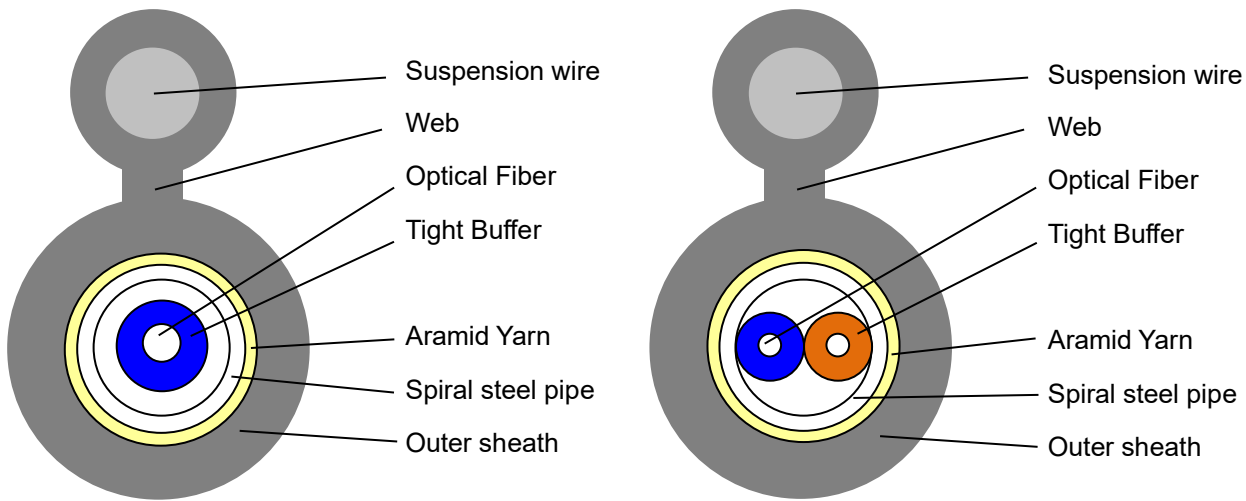


TECHNICAL SPECIFICATIONS FOR ARMORED FTTX-1,2B6 CABLE

1. Construction of cable



2. Performance of Cabled Optical Fiber

Optical fiber characteristics (G.657A FIBER)

Category	Description		Specifications
			G.657A
Optical Specifications	Attenuation	@1310nm	≤0.38dB/km
		@1383nm	≤0.35dB/km
		@1490nm	≤0.30dB/km
		@1550nm	≤0.28dB/km
		@1625nm	≤0.30dB/km
	Attenuation vs. Wavelength	@1285~1330nm relative to@1310	≤0.08 dB/km
		@1525~1575nm relative to@1550	≤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	≤18.0 ps/nm.km
		@1625nm	≤22.0 ps/nm.km
Geometric Specifications	Cable Cutoff Wavelength(λ_{cc})		≤1260nm
	Macro-bend induced attention 10 turns around a mandrel of 15mm radius at 1550n		≤0.25dB
	Mode Field Diameter	@1310nm	8.6±0.4μm
	Cladding Diameter		125±1μm
	Cladding Non-Circularity		≤1.0%

	Coating Diameter	245±5µm
	Coating/Cladding Concentricity Error	≤8µm
	Core/Cladding Concentricity Error	≤0.5µm
Mechanical Specifications	Proof Test level	≥1.0%
	Fiber Curl Radius	≥4.0m
	Peak Coating Strip Force	1.3~8.9N

3. Cable Specification

3.1 Identification of Tight Buffer

No. of Tight Buffer	1	2
Color of Tight Buffer	Blue	Orange

3.2 Cable structure and parameter

Structure		Unit	Parameter	
Fiber count		Fibers	1	2
Tight Buffer Diameter		mm	Nom.Φ0.9	Nom.Φ0.6
Element		--	1	2
Suspension Unit	Material	--	Zinc-coated steel wire	
	Diameter	mm	1.2 ± 0.05 mm	
	Tensile strength	Kg/mm ²	≥125	
	Minimum elongation	--	2.0 %	
	Weight of zinc coating	g/m ²	105	
Increase Strength Member		--	Aramid Yarn	
Outer Jacket thickness	Material	--	LSZH	
	Cable core	mm	*.Nom.1.0	
	Support wire	mm	*.Nom.0.5	
Spiral steel pipe thickness		mm	*.Nom.0.25 (SUS 304)	
Cable diameter		mm	*.Nom.3.5	*.Nom.3.8
Cable height		mm	* *.Approx.6.5	* *.Approx.6.8

Operation temperature range	°C	-10 --- +70
Installation temperature range	°C	0 --- +60
Transport and storage temperature range	°C	-10 --- +70
Max. tensile load	N	800
Crush resistance	N	2000/10cm

* The nominal sheath thickness may have a tolerance with $\pm 0.2\text{mm}$.

** The nominal diameter may have a tolerance with $\pm 0.3\text{m}$

4. Test Requirements

No	Item	Test standard	Method	Acceptance criteria
1	Tensile test	IEC-60794-1-2-E1	-Max.Tensile strength:800N -Sample length:50 meters -Time: 5 minutes;	-Fiber strain at maximum Load: max. 0.4% -Attenuation increase $\leq 0.1\text{dB}$
2	Crush test	IEC-60794-1-2-E3	-Load: 2000N -Time: 1 minutes -Length: 100mm	-No splits or cracks in the outer jacket; -Attenuation increase $< 0.1\text{dB}$
2	Bending test	IEC-60794-1-2-E11	-Radius of mandrel: 30mm -Number of turns/helix:10 -Number of cycles: 1	-Attenuation increase $\leq 0.1\text{dB}$ - No fiber break
3	Temperature cycling test	IEC-60794-1-2-F1	-Temperature step: $+20^{\circ}\text{C} \rightarrow -10^{\circ}\text{C} \rightarrow +70^{\circ}\text{C} \rightarrow -10^{\circ}\text{C} \rightarrow +70^{\circ}\text{C} \rightarrow +20^{\circ}\text{C}$ -Time per each step: 12 hrs -Number of cycles: 2 cycles	-Attenuation increase $\leq 0.1\text{dB}$ - No fiber break and no cable damage

-End of Specification-