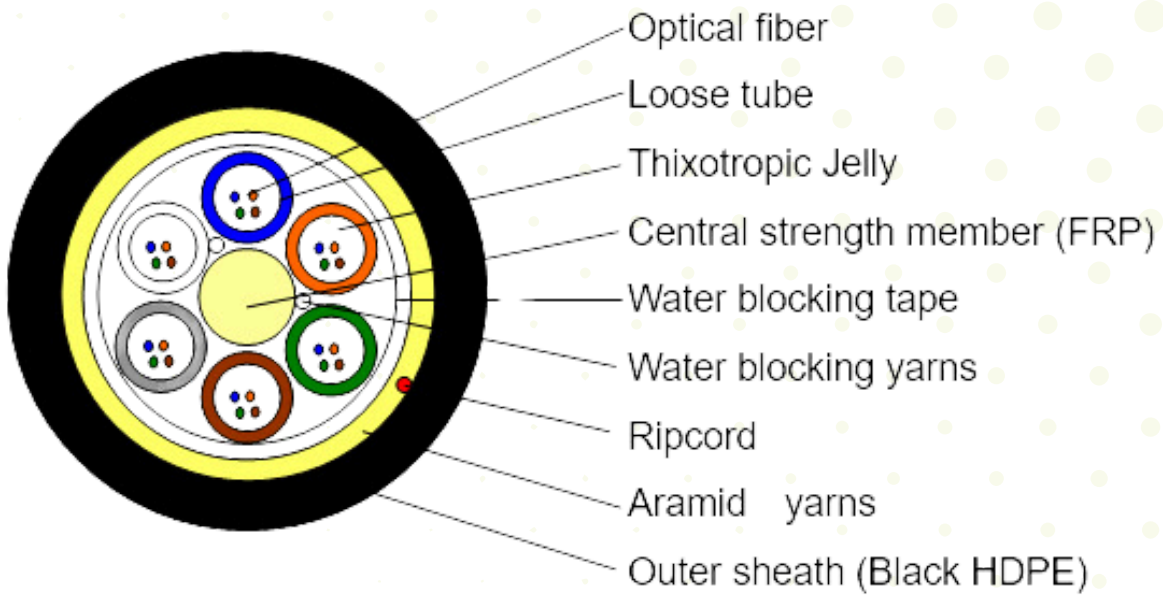


**FO ADSS 72H SPAM 100, 5KM**

**MODELO** ADSS-72B1-100-S

**1.1 CONSTRUCTION OF CABLE**



Cable type		72
element	--	6
Central Strength Member	Material	Fiberglass Reinforce with Plastic (FRP)
	Material	PBT
Loose Tube	Fibers/Tube	12
	Material	Thixotropic jelly
Filling compound in loose tube	Material	Thixotropic jelly
Water blocking	Material	Water blocking yarns and tape
Strength Member	Material	Aramid yarns
Outer Sheath	Material	Black HDPE
	Thickness	Normal: 1.6mm
Outer Diameter	mm	10.5
Cable Weight	kg/km	89
Short term tensile	N	2300

## 2. TEST REQUIREMENTS

No	Item	Test standard	Method	Acceptance criteria
1	Tensile test	IEC-60794-1-E1	-Max. Tensile strength -Sample length:50 meters -Time: 10minutes;	-Fiber strain at maximum Load: max. 0.33% -Attenuation increase $\leq$ 0.10dB
2	Crush test	IEC-60794-1-E3	-Load:1000N -Time: 5minutes -Length: 100mm - Position: One point and one time	-No splits or cracks in the outer jacket; -Attenuation increase $<$ 0.10dB
3	Impact test	IEC-60794-1-E4	-Impact energy: 450g - Height:1 meter -Impact points: 1 -Number of impacts: 5	-No splits or cracks in the outer jacket -Attenuation increase $\leq$ 0.10dB(after the test)
4	Torsion test	IEC-60794-1-E7	-1m cable length with 150N weight $\pm$ 180°, 10 cycles	- No splits or cracks in the outer jacket -Attenuation increase $\leq$ 0.10dB(after the test)
5	Repeated bending	IEC-60794-1-E6	-Radius=20 $\times$ cable outer diameter -1m cable length with 150N weight,25 cycles	- No splits or cracks in the outer jacket -Attenuation increase $\leq$ 0.10dB(after the test)
6	Temperature cycling test	IEC-60794-1-F1	-Temperature step: +20 °C $\rightarrow$ -40°C $\rightarrow$ +60°C $\rightarrow$ -40°C $\rightarrow$ +60°C $\rightarrow$ +20°C -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 $\pm$ 3 °C ) $\leq$ 0.10dB/km,
7	Cable bending test	IEC 60794-1-E11B	-Diameter of mandrel : 20 $\times$ diameter of cable - Number of cycles:1 cycle	Change of attenuation shall not be greater than 0.1dB. No fiber break and no cable damage.
8	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
9	Drip test	IEC-60794-1-E14	-Five 0.3m samples suspended vertically in a climate chamber, raised temperature to +70°C	-No filling compound shall drip from tubes after 24 hr