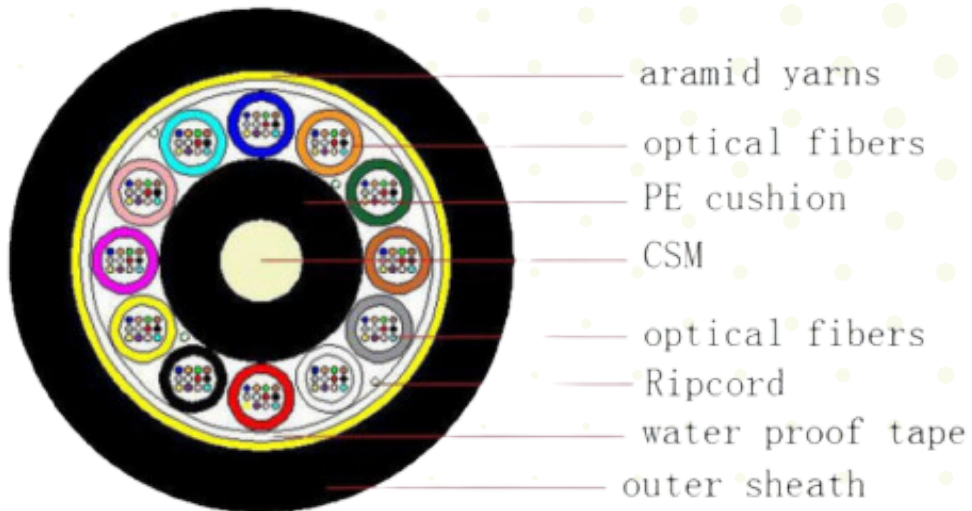


FO ADSS 144H SPAM 100, 4KM

MODELO ADSS-144B1-100-S

1.1 CONSTRUCTION OF CABLE



Cable type		144
element	--	12
Central Strength Member	Material	Fiberglass Reinforce with Plastic (FRP)
Loose Tube	Material	PBT
	Fibers/Tube	12
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	Norminal: 1.6mm
Outer Diameter	mm	14.6
Cable Weight	kg/km	175
Short term tensile	N	3800

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 - $\pm 180^\circ$, 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: $+20^\circ\text{C} \rightarrow -40^\circ\text{C} \rightarrow +60^\circ\text{C} \rightarrow -40^\circ\text{C} \rightarrow +60^\circ\text{C} \rightarrow +20^\circ\text{C}$ -Time per each step: 12 hrs -Number of cycles: 2 cycles	-Attenuation variation for reference value(the attenuation to be measured before test at $+20 \pm 3^\circ\text{C}$) \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 $+70^\circ\text{C}$	-No filling compound shall drip from tubes after 24 hr