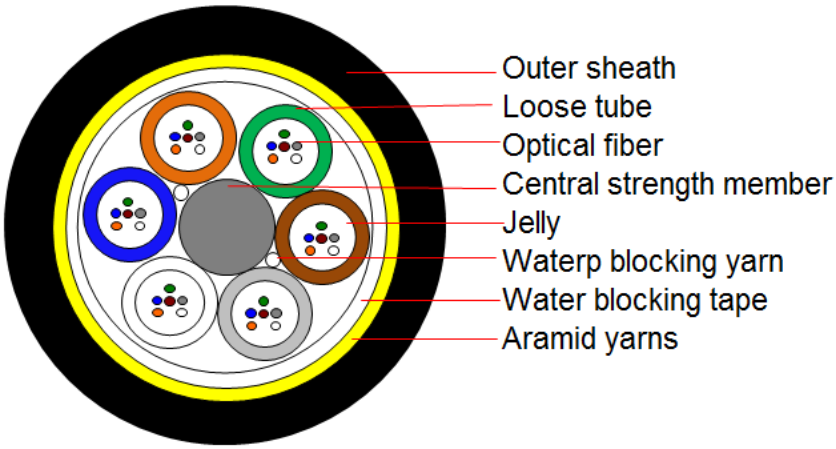
ADSS-Single-PBT



Characteristic of Optical Cable

- Min. bending radius for installation
  Static: 10 x cable diameter
  Dynamic: 20 x cable diameter
- Application temperature range
  Operation: - 30℃ ~ +70℃
  Installation: -10℃ ~ +60℃
  Storage/transportation: - 40℃ ~ +70℃

Cable Specification:

Loose tube construction, tubes jelly filled, elements (tubes and filler rods) laid up around non-metallic central strength member, polyester yarns used to bind the cable core, water blocking tape wrapped of the cable core, aramid yarn reinforced and PE outer sheath.

Cable structure and parameter

SN	Item	Unit	Value		
1	No. of fibers	count	36	72	144
2	No. of fibers per tube	count	6	12	12
3	No. of elements	count	6	6	12
4	Cable diameter(±5%)	mm	11.0	11.6	16.4
5	Cable weight(±10%)	kg/km	94	106	209
6	MAT (MAX. Allowable Working tension)	N		3000	
7	Short term crush	N/100mm		1500	
8	Weather condition	/		NESC medium	
9	Span	m		115	

Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua
Color codes for loose tube											
1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: MAT - Length of cable: about 50m - Load time: 1min	- Fiber strain ≤ 0.33% - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.1dB@1550nm - No fiber break and no sheath damage.

Characteristic of Optical Fiber

G652D fiber information

Mode field diameter (1310nm):	9.2μm±0.4μm
Mode field diameter (1550nm):	10.4μm±0.8μm
Cut off wavelength of cabled fiber (λ_{cc}):	≤1260nm
Attenuation at 1310nm:	≤0.36dB/km
Attenuation at 1550nm:	≤0.22dB/km
Bending loss at 1550nm (100 turns, 30mm radius):	≤0.05dB
Dispersion in the range 1288 to 1339nm:	≤3.5ps/ (nm•km)
Dispersion at 1550nm:	≤18ps/ (nm•km)
Dispersion slope at zero dispersion wavelength:	≤0.092ps/ (nm^2•km)