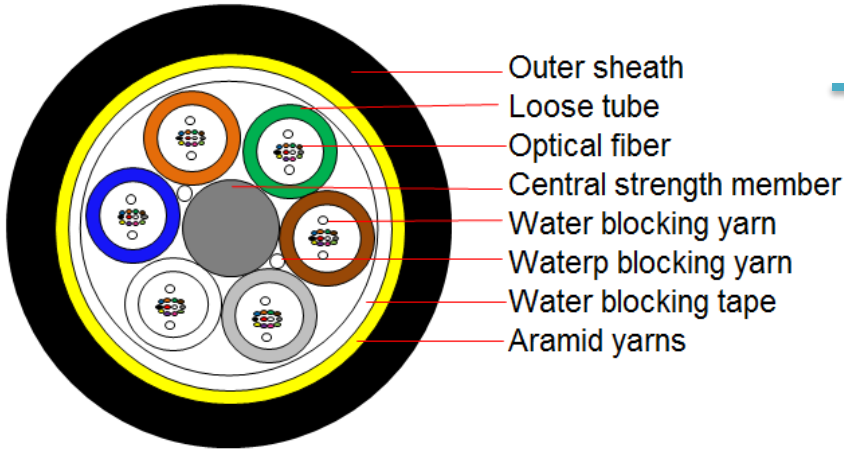


## ADSS-Single-PP



- Outer sheath
- Loose tube
- Optical fiber
- Central strength member
- Water blocking yarn
- Waterp blocking yarn
- Water blocking tape
- Aramid yarns

### Characteristic of Optical Cable

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

### Cable Specification:

Loose tube construction, tubes water blocking yarn 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	81	91	177
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 $\leq 0.33\%$ - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change $\leq 0.1\text{dB}@1550\text{nm}$ - No fiber break and no sheath damage.

### Characteristic of Optical Fiber

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#### *G652D fiber information*

Mode field diameter (1310nm):	$9.2\mu\text{m}\pm 0.4\mu\text{m}$
Mode field diameter (1550nm):	$10.4\mu\text{m}\pm 0.8\mu\text{m}$
Cut off wavelength of cabled fiber ( $\lambda_{cc}$ ):	$\leq 1260\text{nm}$
Attenuation at 1310nm:	$\leq 0.36\text{dB/km}$
Attenuation at 1550nm:	$\leq 0.22\text{dB/km}$
Bending loss at 1550nm (100 turns, 30mm radius):	$\leq 0.05\text{dB}$
Dispersion in the range 1288 to 1339nm:	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
Dispersion at 1550nm:	$\leq 18\text{ps}/(\text{nm}\cdot\text{km})$
Dispersion slope at zero dispersion wavelength:	$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$