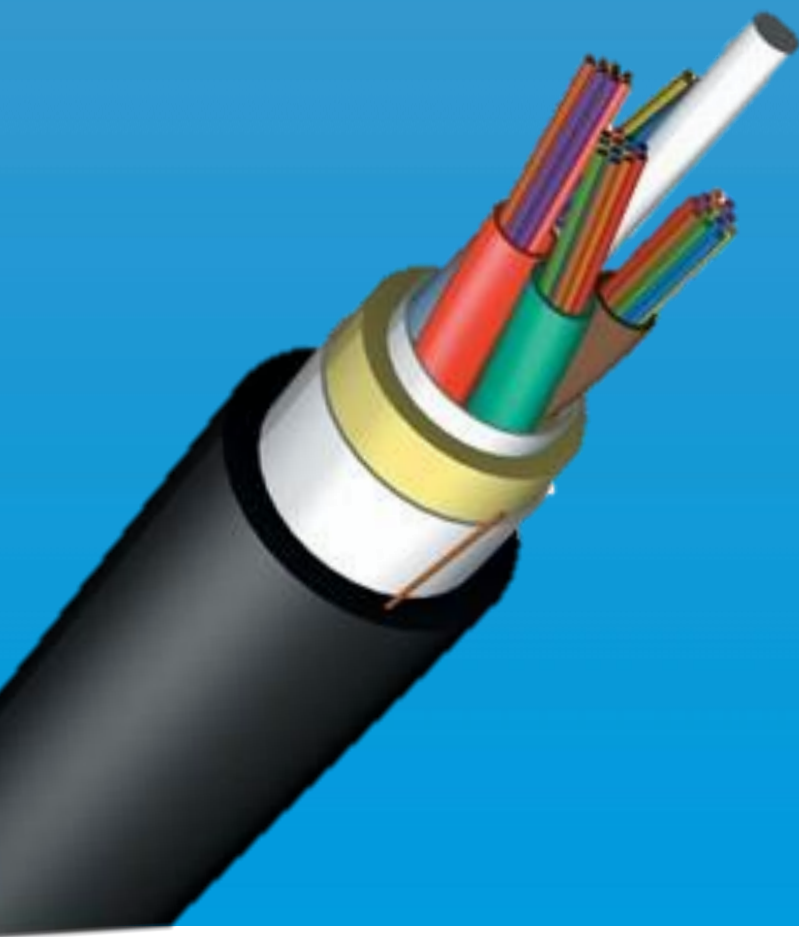


ADSS -SPAN-100-RIP

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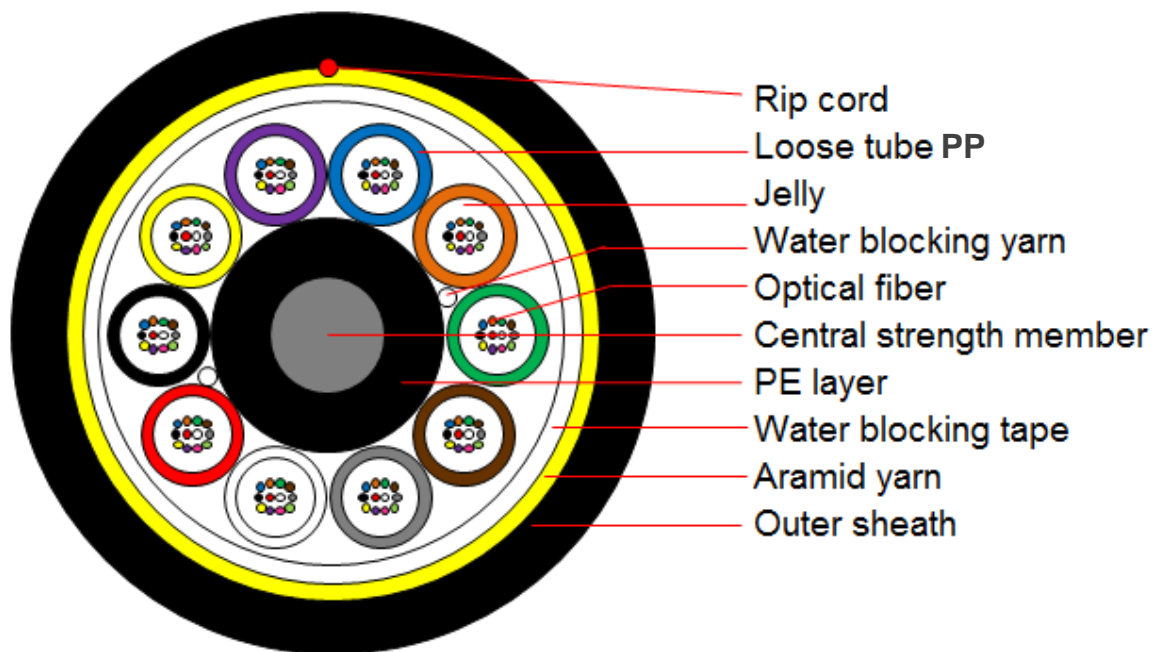
Dispersion slope at zero dispersion wavelength:6

$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$6

Description

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..

Draw



Cable structure and parameter

SN	Item	Unit	Value			
1	No. of fibers	count	12/24/36	48/72	96	120/144
2	No. of fibers per tube(max)	count	6	12	12	12
3	No. of elements	count	6	6	8	12
4	FRP diameter(nom)	mm	2.4	2.6	3.3/4.2	3.3/7.4
5	Cable diameter($\pm 5\%$)	mm	10.9	11.5	13.0	16.2
6	Cable weight($\pm 10\%$)	kg/km	85	96	135	200
7	MAT (MAX. Allowable Working tension)	N	2000	2000	3500	3500
9	Loose Tube material	PP				
8	Short term crush	N/100mm	1000			
9	Span	m	100			
10	Wind speed	km/h	100			
11	Ice thickness	mm	0			

Fiber color

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color for loose tube

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

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

Main mechanical 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 0.1dB@1550nm after test; - No fiber break and no sheath damage.

Characteristic of Optical Fiber

G652D fiber information	
Mode field diameter (1310nm):	9.2 μm \pm 0.4 μm
Mode field diameter (1550nm)	10.4 μm \pm 0.8 μm
Cut off wavelength of cabled fiber (λ_{cc}):	\leq 1260nm
Attenuation at 1310nm:	\leq 0.36dB/km
Attenuation at 1550nm:	\leq 0.22dB/km
Bending loss at 1550nm (100 turns, 30mm radius):	\leq 0.05dB
Dispersion in the range 1288 to 1339nm:	\leq 3.5ps/ (nm \cdot km)
Dispersion at 1550nm:	\leq 18ps/ (nm \cdot km)
Dispersion slope at zero dispersion wavelength:	\leq 0.092ps/ (nm ² \cdot km)