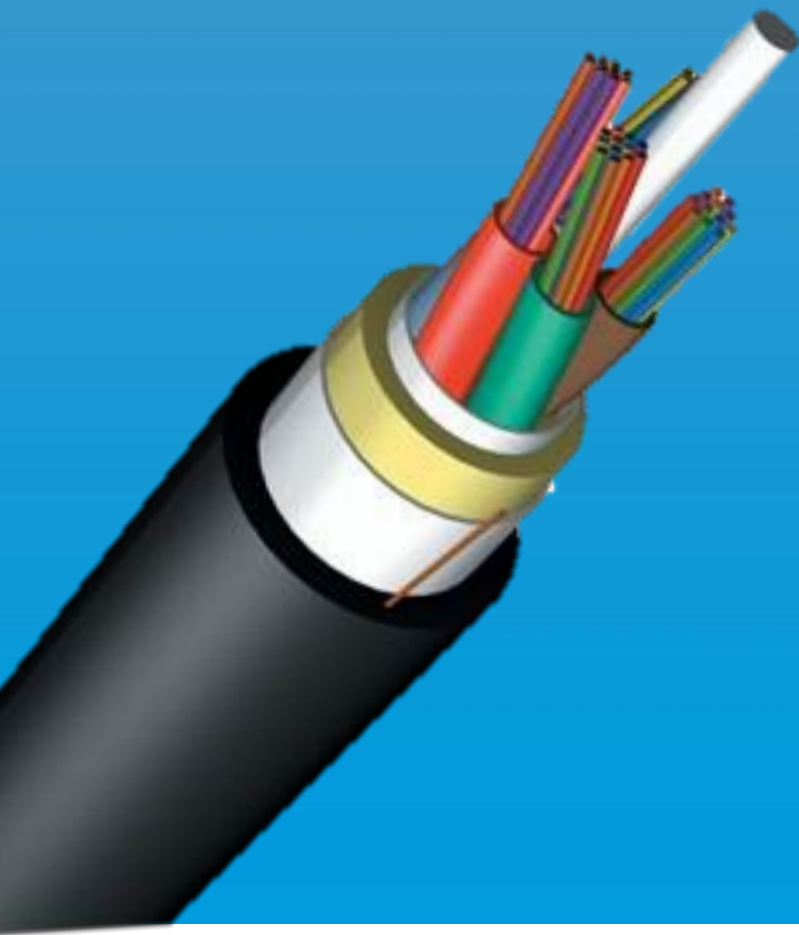


## ADSS -SPAN-120-RIP

**COMCAST**  **GROUP**



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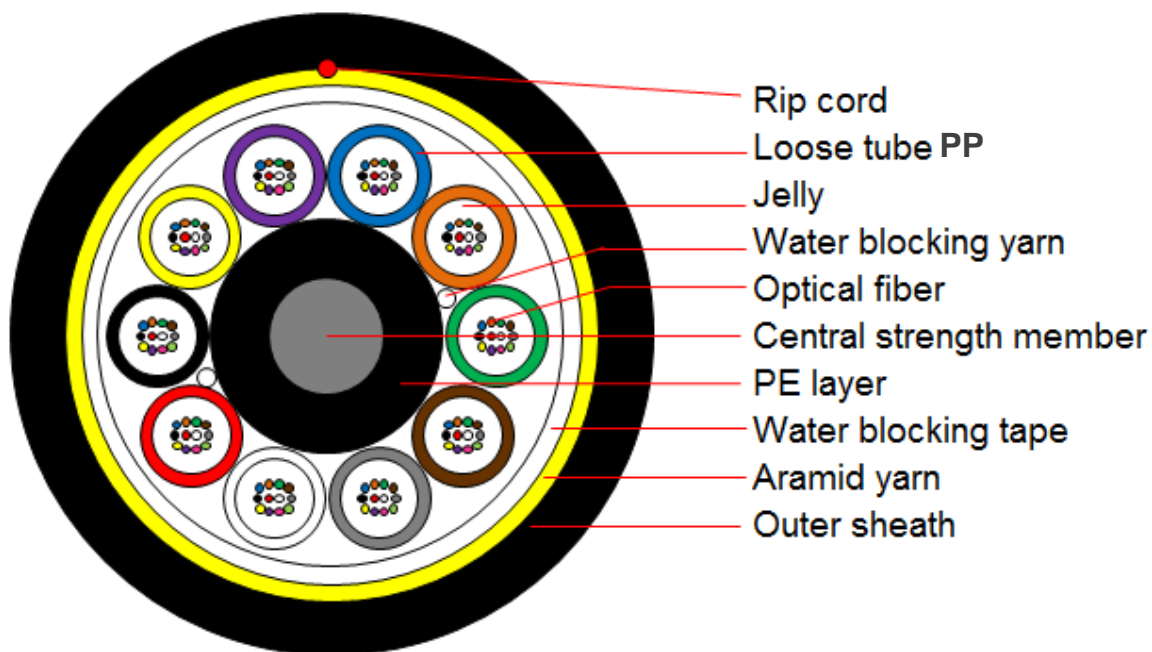
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## Description

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	2500	2500	4000	4000
9	Loose Tube material	PP				
8	Short term crush	N/100mm	1000			
9	Span	m	120			
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: -20°C ~ +60°C

Installation: -5°C ~ +50°C

Storage/transportation: -20°C ~ +60°C

## Main mechanical performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	<ul style="list-style-type: none"> <li>- Load: MAT</li> <li>- Length of cable: about 50m</li> <li>- Load time: 1min</li> </ul>	<ul style="list-style-type: none"> <li>- Fiber strain <math>\leq 0.33\%</math>;</li> <li>- No fiber break and no sheath damage.</li> </ul>
Crush Test IEC 60794-1-2-E3	<ul style="list-style-type: none"> <li>- Load: Short term crush</li> <li>- Load time: 1min</li> </ul>	<ul style="list-style-type: none"> <li>- Loss change <math>\leq 0.1\text{dB}@1550\text{nm}</math> after test;</li> <li>- No fiber break and no sheath damage.</li> </ul>

## Characteristic of Optical Fiber

<b>G652D fiber information</b>	
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 ( $\lambda_{cc}$ ):	$\leq$ 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 <sup>2</sup> $\cdot$ km)