

# ADSS SPAN 200 DOUBLE JACKET

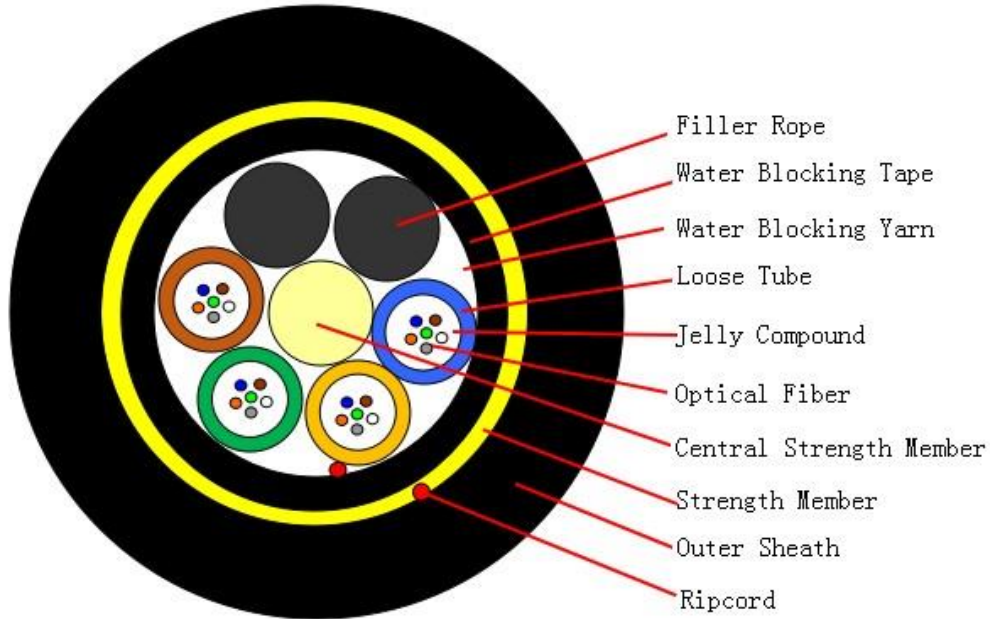
**COMCAST** GROUP



## Technical data

<b>No. of fiber</b>		/	<b>12</b>		<b>24</b>	<b>48</b>
<b>Span</b>		m		<b>200</b>		
Design Strength Member+Tube&Filler		/		1+6		
Fiber type		/		G.652D		
Central Strength Member	Material	mm		FRP		
	Diameter			2.1±0.05		
Loose Tube	Material	mm		PBT		
	Diameter			1.8±0.05	2.0±0.05	
	Thickness			0.30±0.05	0.32±0.05	
	Fiber./per			6	12	
Filler Rope	Material	mm		LDPE		
	Diameter			1.8±0.05	2.0±0.05	
	NO.		4	2	2	
Water Blocking Layer	Material	/		Flooding Compound		
Inner Sheath	Material	mm		MDPE		
	Thickness			0.8±0.1		
Additional Strength Member		/		Aramid Yarn		
Outer Sheath	Material	mm		MDPE		
	Thickness			1.5±0.1		
	Color			Black.		
Cable Diameter		mm		10.8±0.2	11.2±0.2	
Cable Weight		kg/km		90±5.0	98±5.0	

## Draw



## Fibre Color

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

## Loose Tube Color

<b>No.</b>	1	2	3	4
<b>Color</b>	Blue	Orange	Green	Brown

## The properties of single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	<input type="checkbox"/> 0.35 dB/km <input type="checkbox"/> 0.32 dB/km <input type="checkbox"/> 0.21 dB/km <input type="checkbox"/> 0.24dB/km
Point discontinuity	<input type="checkbox"/> 0.05 dB
Cable cut-off wavelength	<input type="checkbox"/> 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	<input type="checkbox"/> 0.092 ps/(nm <sup>2</sup> .km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	<input type="checkbox"/> 3.5 ps/(nm. km) <input type="checkbox"/> 5.3 ps/(nm. km) <input type="checkbox"/> 18 ps/(nm. km) <input type="checkbox"/> 22 ps/(nm. km)
PMD <sub>0</sub> (Quadrature average*)	<input type="checkbox"/> 0.2 ps/km <sup>1/2</sup>
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	<input type="checkbox"/> 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	<input type="checkbox"/> 1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	<input type="checkbox"/> 0.1 dB/km

## Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: 4000N - Length of cable: about 50m	- Fiber strain $\leq$ 0.33% - Loss change $\leq$ 0.1 dB @1550 nm
		- No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: 2500N/100mm - Load time: 1min	- Loss change $\leq$ 0.1dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change $\leq$ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test IEC60794-1-22-F1	- Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2	- Loss change $\leq$ 0.1 dB/km@1550 nm - No fiber break and no sheath damage.

## Sheath marking

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin with zero meter. The accuracy of the measurement of length marking shall be held within the limits of  $\pm 1\%$ .

- a) Manufacturer's name
- b) Type of wire
- c) Year and month of manufacture
- d) Length marking each meter along the wire

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