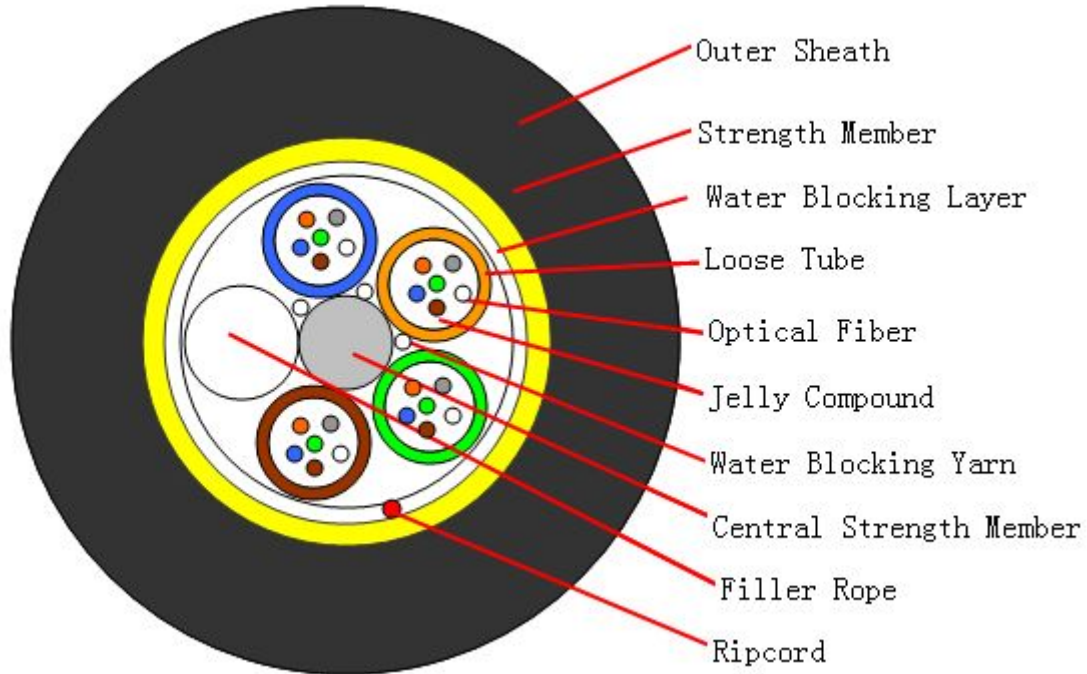


ADSS-24B1-PE-3000N

Cable Design

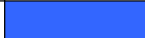






Technical data

No. of cable		/	24
Design (StrengthMember+Tube&Filler)		/	1+5
Fiber type		/	G.652D
Central Strength Member	Material	mm	FRP
	Diameter ($\pm 0.05\text{mm}$)		1.5
Loose Tube	Material	mm	PBT
	Diameter ($\pm 0.05\text{mm}$)		1.8
	Thickness ($\pm 0.03\text{mm}$)		0.32
	MAX.NO./per		6
Filler Rope	Material	/	LDPE
	Diameter (± 0.06) mm		1.8
	NO.		1
	Colours		Natural
Ripcord	Material	/	Nylon
	NO.		1

Water Blocking Layer	Material	/	Water Blocking Yarns& Water Blocking tape
Additional Strength Member	Material	/	Aramid Yarn
Outer Sheath	Material	mm	HDPE
	Thickness		1.6 (nominal)
Cable Diameter(±0.2mm)		mm	9.5
Cable Weight(±10.0kg/km)		kg/km	65
Attenuation coefficient	1310nm	dB/km	≤0.35
	1550nm		≤0.21
Cable breaking strength(RTS)		kn	≥7.0
Working Tension (MAT)		kn	≥3.0
Crush Resistance	Short Term	N/100	≥2200
	Long Term	mm	≥1100
Min. bending radius	Without Tension	mm	10.0×Cable- φ
	Under Maximum Tension		20.0×Cable- φ
Temperature range (°C)	Installation	°C	-20~+60
	Transport&Storage		-40~+70
	Operation		-40~+70

Fibre Colours

NO.	1	2	3	4	5	6
Colour	Blue	orange	green	brown	gray	white
						

Fibre&Loose Tube Colours

NO.	1	2	3	4
Colour	Blue	orange	green	brown
				

The color of marking is white, but if the remarking is necessary, the white color marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress

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

Item	Specification
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Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	≤ 3.5 ps/(nm. km) ≤ 5.3 ps/(nm. km) ≤ 18 ps/(nm. km) ≤ 22 ps/(nm. km)
PMD _Q (Quadrature average*)	≤ 0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	$\leq 1.0\%$
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km