



ADSS specification

ADSS-12B1.3-PE-1 0m Cross Section



Cable structure	name	ADSS-12B1.3-PE-120m
	Diameter of Center strengthen member FRP	2.0mm
	Diameter of loose tube	2.0±0.1mm
	thickness of outer jacket	1.8±0.2mm
	Cable diameter	10.0±0.5mm
	Fiber optic cable weight	90±10%kg/km
	Loose tube number	4tubes
	Fiber per tube	6
	Loose tube color	Blue、 Orange、 green、 brown



	Optical fiber color	Blue、Orange、Green、Brown、Gray、Natural、Red、Black、 Yellow、Purple、Pink、Aqua
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Fiber parameter

Item		Unit	Specification
Fiber Type			G.652D
Mode field diameter	1310nm	μm	9.2±0.4
	1550nm	μm	10.4±0.8
Cladding diameter		μm	125.0±1
Cladding non-circularity		%	±1.0
Core/cladding concentricity error		μm	±0.5
Coating diameter		μm	245±5
Coating non-Circularity		%	±6.0
Coating/cladding concentricity error		μm	±12.0
Cable cut-off wavelength		nm	≤1260
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1550nm	dB/km	≤0.21
Proof stress level		kpsi	≥100

Note: Other parameters meet standard ITU-T G.652

Mechanical and Environmental Characteristics

Performance parameters	Rated tensile strength (RTS)	KN	5.8
	Allows the use of tension (MAT)	KN	2.6
	The average annual running tension (EDS)	KN	1.8
	Limit running tension (UES)	KN	3.2
	Thermal expansion coefficient	10 ⁻⁶ /°C	1/°C



	Young's modulus	kN/mm ²	3.75
	The compressive strength	For a long time	1000N/100mm
		In the short term	2000N/100mm
	The minimum bending radius	operating	115mm
		laying	235mm
	Suitable temperature range	laying	-40~+70°C
		Transportation and operation	-40~+60°C
	Additional long for fiber optic cable		0.4-0.6%
	life time		Max 25 year

Dimensions of Cable Constructions

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter/pad diameter (mm)	Nominal Thickness of outer jacket (mm)	Cable diameter/ Height (mm)	Cable weight (kg/km)
12	1+6	6	2.0±0.1	2.0/2.0	1.8	10±0.5	90

Dimensions of Cable Constructions

Cable type	4km/Drum				
	length (cm)	Width (cm)	high (mm)	Length (km)	Drum type
ADSS(12 cores)	105	105	73	4	wood drum

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