



96 CORES ADSS CABLES DATASHEET



Cable performance

Cable structure	name	ADSS-96B1-PE-100
	Center to strengthen core FRP	2.0mm/3.4mm
	Loose tube (filling gel)	2.1±0.2mm
	Outsheath thickness PE	1.7±0.2mm
	Cable diameter	11.8±0.3mm
	cable weight	123±10%kg/km
	Loose tube(pcs)	8
	Each tube contains fibers	12cores
	Loose tube color	Blue, Orange, Green, Brown, Gray, Natural,
	Optical fiber color	Blue, Orange, Green, Brown, Gray, Natural, Red, Black, Yellow, Purple, Pink, Aqua



Fiber parameter

Item	Unit	Specification
Fiber Type		G.652D
Mode field diameter	1310nm	μm 9.2 $\pm$ 0.4
	1550nm	μm 10.4 $\pm$ 0.8
Cladding diameter	μm	125.0 $\pm$ 1
Cladding non-circularity	%	$\leq$ 1.0
Core/cladding concentricity error	μm	$\leq$ 0.5
Coating diameter	μm	245 $\pm$ 5
Coating non-Circularity	%	$\leq$ 6.0
Coating/cladding concentricity error	μm	$\leq$ 12.0
Cable cut-off wavelength	nm	$\leq$ 1260
Attenuation Coefficient	1310nm	dB/km $\leq$ 0.36
	1550nm	dB/km $\leq$ 0.22
Proof stress level	kpsi	$\geq$ 100

Mechanical and Environmental Characteristics

Performance parameters	Rated tensile strength (RTS)	KN	7.5
	Allows the use of tension (MAT)	KN	2.5
	The average annual running tension (EDS)	KN	1.5
	Limit running tension (UES)	KN	4.5
	Max span	m	120
	Young's modulus	kN/mm ²	3.75
	The compressive strength	For a long time	1000N/100mm
		In the short term	2000N/100mm



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)
4	1+6	4	1.9±0.1	2.0/2.0	1.6	9.5±0.2	80
6	1+6	6	2.0±0.1	2.0/2.0	1.6	9.8±0.3	80
8	1+6	4	1.9±0.1	2.0/2.0	1.6	9.8±0.3	80
12	1+6	6	2.1±0.1	2.0/2.0	1.6	9.8±0.3	80
24	1+6	12	2.1±0.1	2.0/2.0	1.6	9.8±0.3	80
36	1+6	12	2.2±0.1	2.0/2.0	1.6	10.0±0.3	85
48	1+6	12	2.2±0.1	2.0/2.0	1.6	10.0±0.3	85
72	1+6	12	2.2±0.1	2.0/2.0	1.6	10.0 ± 0.3	85
96	1+8	12	2.2 ± 0.1	2.0/3.4	1.7	11.8 ± 0.3	123
144	1+12	12	2.2 ± 0.1	3.0/6.2	1.7	14.5 ± 0.3	175

Drum

Cable type	Drum				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
ADSS-96	1300	1300	800	4	wood drum

Mark: White color Ink jet printing, Cable Mark: Brand, Cable type, Fiber type and counts, Year of manufacture and Length marking.

- www.hbyweb.ru
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- E-mail:sales@hbyweb.com