

FiberHome Cable Specification



Wuhan FiberHome International Technologies Co., LTD



ADSS-12/24 B1.3 Span 80m

Max operating weather conditions: 25m/s wind speed and no ice load

Cable cross-section and dimensions

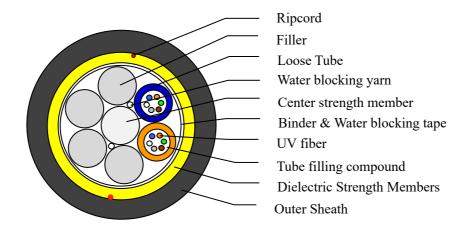


Figure. Cable Cross-Section (A-end)

Item	Material	Description
Outer sheath	HDPE	HDPE
Dielectric Strength Members	Aramid yarns	Additional strength member
Binder	Polyester yarn	Cable core binding
Water blocking yarn	Water blocking yarn	Water blocking & moisture proof
Water blocking tape	Water blocking tape	Water blocking & moisture proof
Filler	PP	Diameter same as tube
Loose tube		Colors of tubes:
	PBTP	12FO: blue, orange
		24FO:blue, orange, green, brown
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof
E.I	Silicon-based	UV fiber, color with: blue, orange, green,
Fiber	fiber(G.652D)	brown, gray, white
Center strength member	FRP	FRP
Cable O.D.	10.2±0.5mm	
Cable weight	80±15kg	

Cable main mechanical properties and application

Serial No.	Item	Requirement
1	Allowable tensile resistance	2000N
2	Allowable crush resistance	1500N /10cm
3	Operation temperature	-20 ° C +65° C



ADSS-48/72 B1.3 Span 80m

Max operating weather conditions: 25m/s wind speed and no ice load

Cable cross-section and dimensions

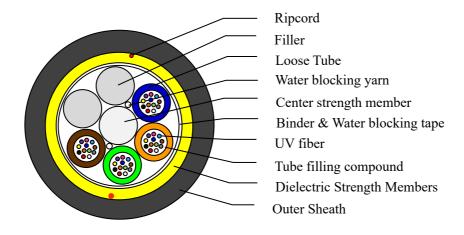


Figure. Cable Cross-Section (A-end)

Item	Material	Description
Outer sheath	HDPE	HDPE
Dielectric Strength Members	Aramid yarns	Additional strength member
Binder	Polyester yarn	Cable core binding
Water blocking yarn	Water blocking yarn	Water blocking & moisture proof
Water blocking tape	Water blocking tape	Water blocking & moisture proof
Filler	PP	Diameter same as tube
Loose tube	РВТР	Colors of tubes:
		48FO:blue, orange, green, brown
		72FO: blue, orange, green, brown, gray, white
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof
	Silicon-based fiber(G.652D)	UV fiber, color with: blue, orange, green,
Fiber		brown, gray, white, red, black, yellow,
		violet, pink, aqua
Center strength member	FRP	FRP
Cable O.D.	10.8 ± 0.5 mm	
Cable weight	88±15kg	

Cable main mechanical properties and application

Serial No.	Item	Requirement
1	Allowable tensile resistance	2000N
2	Allowable crush resistance	1500N /10cm
3	Operation temperature	-20° C +65° C



ADSS-96 B1.3 Span 80m

Max operating weather conditions: 25m/s wind speed and no ice load

Cable cross-section and dimensions

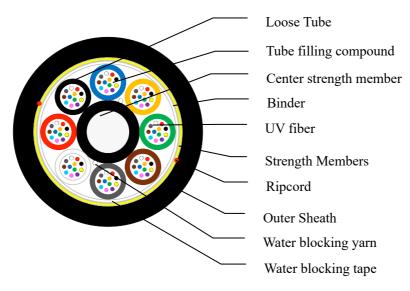


Figure. Cable Cross-Section (A-end)

Item	Material	Description
Outer sheath	HDPE	HDPE
Strength Members	Aramid yarns	Additional strength member
Binder	Polyester yarn	Cable core binding
Water blocking yarn	Water blocking yarn	Water blocking & moisture proof
Water blocking tape	Water blocking tape	Water blocking & moisture proof
Loose tube	PBTP	Color of tubes: blue, orange, green, brown, gray, white, red, black
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof
Fiber	Silicon-based fiber(G.652D)	UV fiber, color with: blue, orange, green, brown, gray, white, red, black, yellow, purple, pink, aqua
Center strength member	FRP	FRP+PE
Cable O.D.	12.4±0.5mm	
Cable weight	116±15kg/km	

Cable main mechanical properties and application

Cubic main incenancal properties and application		
Serial No.	Item	Requirement
1	Allowable tensile resistance	2200N
2	Allowable crush resistance	1500N /10cm
3	Operation temperature	-20° C +65° C



FiberHome Telecommunication Technologies Co, Ltd

_	G.652D fiber characte	eristics	
	Optics specifications		
(2/1310nm	≤0.35dB/km	
	@1550nm	≤0.22dB/km	
	@1625nm	≤0.24dB/km	
(201285nm∼1340nm	-3.0ps/(nm·km)~3.0ps/(nm·km)	
Dispersion	21550nm	≤18ps/(nm·km)	
(@1620nm	≤22ps/(nm·km)	
Zero-Dispersion wavelength		1300nm~1324nm	
Zero-Dispersion slope		$\leq 0.092 \text{ps/(nm}^2 \cdot \text{km)}$	
Mode field diameter (MFD) at	1310nm	9.2±0.4μm	
Mode field diameter (MFD) at 1550nm		10.4±0.8μm	
DIAD	Max. for fiber on the reel	$0.20 \text{ps/km}^{1/2}$	
PMD	Max. for link designed value	$0.10 \mathrm{ps/km^{1/2}}$	
Cable cutoff wavelength $\lambda_{cc}(nm)$		≤1260nm	
Ba	ck scatter characteristics (at 1310n	m&1550nm)	
Point discontinuity		≤0.05dB	
Attenuation uniformity		≤0.05dB/km	
Attenuation coefficient difference for bi-directional measurement		≤0.05dB/km	
	Geometrical characteristic	es	
Cladding diameter		125±1.0μm	
Cladding non-circularity		≤1%	
Core/cladding concentricity error		≤0.8μm	
Fiber diameter with coating (uncolored)		245±10μm	
Cladding/coating concentricity error		≤12.0μm	
	Mechanical characteristic	s	
Proof stress		≥0.69GPa(100kpsi)	
Magnahandlags at 1550	φ 60mm,100 turns	≤0.05dB	
Macrobend loss at 1550nm	φ 32mm,1 turns	≤0.05dB	