

Aerial Cable ADSS – 6 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions

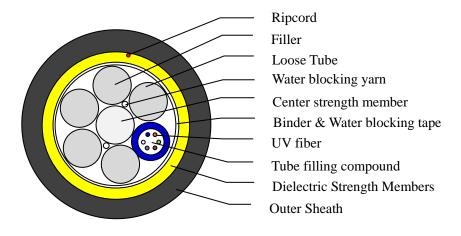


Figure. Cable Cross-Section (A-end)

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	PBT	Colors of tubes: blue
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof
Fiber	Silicon-based UV fiber, color with: blue, orange, g	
Fibel	fiber(G.652D)	brown, gray, white
Center strength member	FRP	FRP
Cable O.D.	9.5±0.5mm	
Cable weight	70±15kg	

Serial No.	Item	Requirement
1	MAT	1700N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS – 12 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions

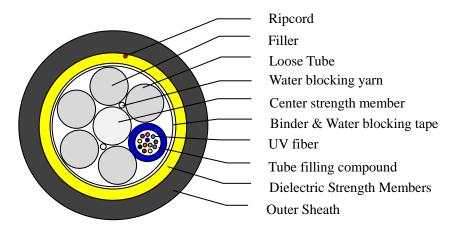


Figure. Cable Cross-Section (A-end)

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	PBT	Colors of tubes: blue
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, violet, pink, aqua
Center strength member	FRP FRP	
Cable O.D.	10.1±0.5mm	
Cable weight	78±15kg	

Serial No.	Item	Requirement
1	MAT	1800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS - 24 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions

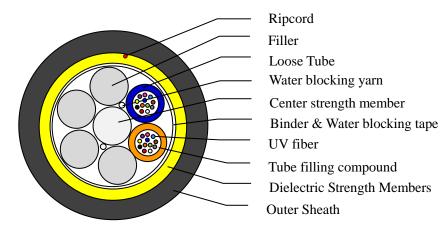


Figure. Cable Cross-Section (A-end)

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	PBT	Colors of tubes: blue, orange
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, violet, pink, aqua
Center strength member	FRP FRP	
Cable O.D.	10.1±0.5mm	
Cable weight	78±15kg	

Serial No.	Item	Requirement
1	MAT	1800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS – 36 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions

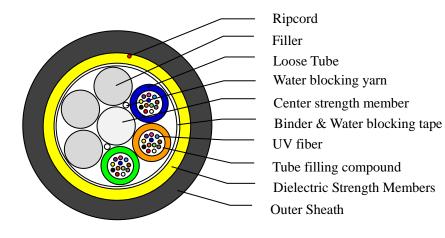


Figure. Cable Cross-Section (A-end)

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	PBT	Colors of tubes: blue, orange, green
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, violet, pink, aqua
Center strength member	FRP FRP	
Cable O.D.	10.1±0.5mm	
Cable weight	78±15kg	



Aerial Cable ADSS – 48 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions

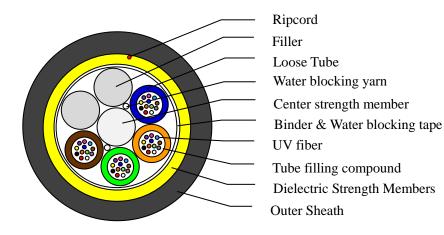


Figure. Cable Cross-Section (A-end)

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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	PBT	Colors of tubes: blue, orange, green, brown	
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, violet, pink, aqua	
Center strength member	FRP	FRP	
Cable O.D.	10.1±0.5mm		
Cable weight	78±15kg		

Serial No.	Item	Requirement
1	MAT	1800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C

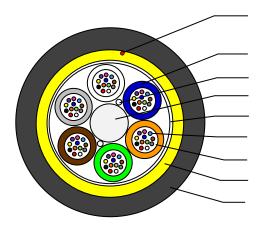


Aerial Cable ADSS – 72 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions



Ripcord

Loose Tube

Water blocking yarn

Center strength member

Binder & Water blocking tape

UV fiber

Tube filling compound

Dielectric Strength Members

Outer Sheath

Figure. Cable Cross-Section (A-end)

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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	
Loose tube	PBT	Colors of tubes: blue, orange, green,	
Loose tube	FD1	brown, gray, white	
Tube filling compound	Thyrotrophic gel Water Blocking & Moisture Proof		
	Silicon-based	UV fiber, color with: blue, orange, green,	
Fiber	fiber(G.652D)	brown, gray, white, red, black, yellow,	
		violet, pink, aqua	
Center strength member	FRP FRP		
Cable O.D.	10.1±0.5mm		
Cable weight	78±15kg		

Serial No.	Item	Requirement
1	MAT	1800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C

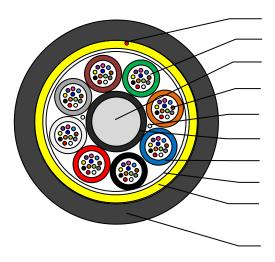


Aerial Cable ADSS – 96 G652D Span 100m

Max Span: 100m Max applied voltage:110kv

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

Cable cross-section and dimensions



Ripcord

Tube filling compound

FRP Center Member

UV fiber

Water blocking yarn

PE cushion

Loose Tube

Water blocking tape

Dielectric strength members

Outer sheath

Figure. Cable Cross-Section (A-end)

Item	Material	Description
Outer sheath	HDPE	HDPE
Binder	Polyester yarn	Cable core binding
Water blocking tape	Water blocking tape	Water blocking & moisture proof
Water blocking yarn	Water blocking yarn	Water blocking & moisture proof
Loose tube	Loose tube	Colors of tubes: blue, orange, green,
Loose tube	Loose tube	brown, gray, white, red, black
Dielectric strength members	Aramid yarns	Additional strength member
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, violet, pink, aqua
Center strength member	FRP+PE FRP+PE	
Cable O.D.	11.6±0.5mm	
Cable weight	101±15kg/km	

Serial No.	Item	Requirement
1	MAT	2100N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



	G.652D fiber characteristi	cs
	Optics specifications	
	@1310nm	≤0.350dB/km
	@1383nm(after hydrogen aging)	≤0.350dB/km
Attenuation	@1550nm	≤0.210dB/km
	@1625nm	≤0.240dB/km
Zero-Dispersion slope		$\leq 0.092 \text{ps/(nm}^2 \text{ km)}$
D: '	@1550nm	≤18.0ps/(nm km)
Dispersion	@1625nm	≤22.0ps/(nm km)
Zero-Dispersion wavelength		1300nm~1324nm
Mode field diameter (M	9.2±0.6μm	
Mode field diameter (MFD) at 1550nm		10.5±1.0μm
	PMD (Single Value)	≤0.20ps/km1/2
Polarization Mode	M≥20	Cables
Dispersion	Q	0.01%
	PMD _Q (Link Value)	≤0.10ps/km1/2
Cable cutoff wavelength	1180nm≤λc≤1330nm	
Cable cutoff wavelength $\lambda_{cc}(nm)$		≤1260nm
	Back scatter characteristics (at 1310nm&1	1550nm)
Point discontinuity		≤0.05dB
Attenuation uniformity	≤0.05dB/km	
Attenuation coefficient of	≤0.05dB/km	
	Geometrical characteristics	
Cladding diameter	$125\pm1.0\mu m$	
Cladding non-circularity	≤ 1.0%	
Core concentricity error	≤0.6μm	
Fiber diameter with coar	245±15μm	
Fiber diameter with coar	250±15μm	
Cladding/coating concer	≤12.5μm	
Curl	≥4m	
	Mechanical characteristics	
Proof stress	≥0.69GPa(100kpsi)	
Coating strip force (typi	1.4N	
Dynamic stress corrosion susceptibility parameter (typical value)		≥20
Macrobend loss	Ф30mm,100 turns	≤0.10dB
at 1550/1625nm	Φ16mm,1 turns	≤0.10dB