

Aerial Cable ADSS – 6 G652D Span 200m

Max Span: 200m Max applied voltage:110kv

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

Cable cross-section and dimensions

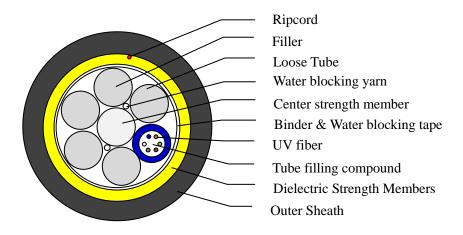


Figure. Cable Cross-Section (A-end)

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, green,
Fibel	fiber(G.652D)	brown, gray, white
Center strength member	FRP	FRP
Cable O.D.	10.2±0.5mm	
Cable weight	80±15kg	

Serial No.	Item	Requirement
1	MAT	3400N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS – 12 G652D Span 200m

Max Span: 200m Max applied voltage:110kv

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

Cable cross-section and dimensions

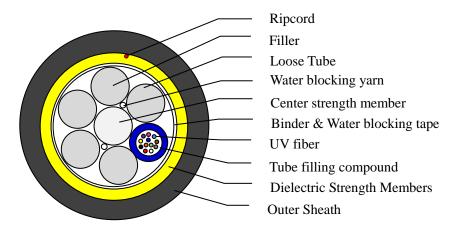


Figure. Cable Cross-Section (A-end)

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.	10.9±0.5mm		
Cable weight	91±15kg		

Serial No.	Item	Requirement
1	MAT	3800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS – 24 G652D Span 200m

Max Span: 200m Max applied voltage:110kv

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

Cable cross-section and dimensions

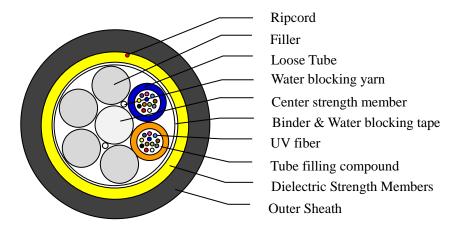


Figure. Cable Cross-Section (A-end)

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.	10.9±0.5mm		
Cable weight	91±15kg		

Serial No.	Item	Requirement
1	MAT	3800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS - 36 G652D Span 200m

Max Span: 200m Max applied voltage:110kv

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

Cable cross-section and dimensions

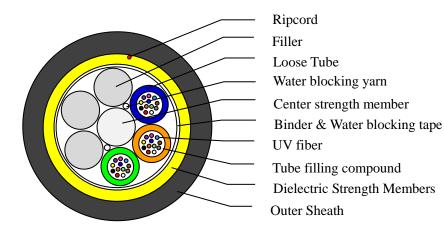


Figure. Cable Cross-Section (A-end)

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.	10.9±0.5mm		
Cable weight	91±15kg		

Serial No.	Item	Requirement
1	MAT	3800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



Aerial Cable ADSS – 48 G652D Span 200m

Max Span: 200m Max applied voltage:110kv

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

Cable cross-section and dimensions

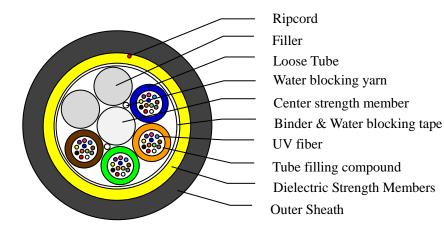


Figure. Cable Cross-Section (A-end)

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, 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.	10.9±0.5mm		
Cable weight	91±15kg		

Serial No.	Item	Requirement
1	MAT	3800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C

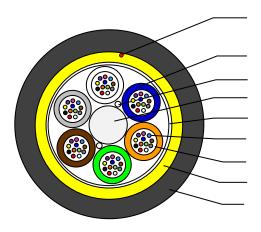


Aerial Cable ADSS – 72 G652D Span 200m

Max Span: 200m 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)

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, brown, gray, white	
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.	10.9±0.5mm		
Cable weight	91±15kg		

Serial No.	Item	Requirement
1	MAT	3800N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C

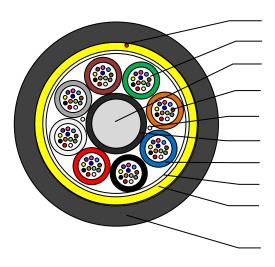


Aerial Cable ADSS – 96 G652D Span 200m

Max Span: 200m 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,
		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.	12.6±0.5mm	
Cable weight	122±15kg/km	

Serial No.	Item	Requirement
1	MAT	4900N
2	Allowable crush resistance (N)	1000N /10cm
3	Operation temperature	-20 °C +65 °C



	G.652D fiber characteristic	cs		
Optics specifications				
	@1310nm	≤0.350dB/km		
A	@1383nm(after hydrogen aging)	≤0.350dB/km		
Attenuation	@1550nm	≤0.210dB/km		
	@1625nm	≤0.240dB/km		
Zero-Dispersion slope		≤0.092ps/(nm² km)		
Dispersion	@1550nm	≤18.0ps/(nm km)		
	@1625nm	≤22.0ps/(nm km)		
Zero-Dispersion wavelength		1300nm~1324nm		
Mode field diameter (MFD) at 1310nm		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 $\lambda_c(nm)$		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 difference for bi-directional measurement		≤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 coating (uncolored)		245±15μm		
Fiber diameter with coating (colored)		250±15μm		
Cladding/coating concentricity error		≤12.5μm		
Curl		≥4m		
	Mechanical characteristics			
Proof stress		≥0.69GPa(100kpsi)		
Coating strip force (typical value)		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		