

DUCT Cable GYFS-6 G652D

Cable cross-section and dimensions

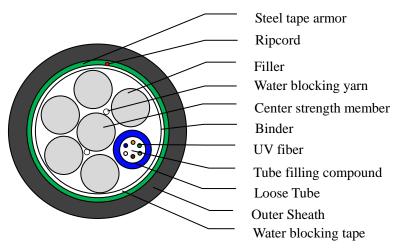


Figure. Cable Cross-Section (A-end)

Item	Material	Description	
Outer sheath	HDPE	HDPE	
Steel tape armor	Two side coated steel tape	Two side coated steel tape	
Ripcord	Ripcord	Easy for stripping	
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	PBT	Colors of tubes: blue	
Filler	PP	Diameter same as tube	
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof	
Fiber	Silicon-based	UV fiber, color with: blue, orange,	
Linei	fiber(G.652D)	green, brown, grey, white	
Center strength member	FRP FRP		
Cable O.D.	10.8±0.5 mm		
Cable weight	106±15kg/km		

Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	2000N
2	Allowable crush resistance (N) (short term)	1000N /10cm
3	Application	Duct
4	Operation temperature	-20 ℃ +65 ℃



DUCT Cable GYFS-12 G652D

Cable cross-section and dimensions

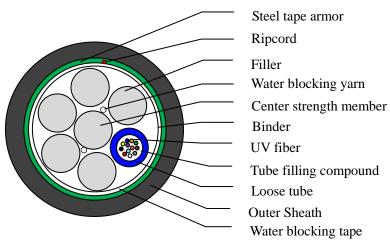


Figure. Cable Cross-Section (A-end)

Item	Material	Description	
Outer sheath	HDPE	HDPE	
Steel tape armor	Two side coated steel tape	Two side coated steel tape	
Ripcord	Ripcord	Easy for stripping	
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	PBT	Colors of tubes: blue	
Filler	PP	Diameter same as tube	
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof	
Fiber	Silicon-based fiber(G.652D)	UV fiber, color with: blue, orange, green, brown, grey, white, red, black, yellow, purple, pink, aqua	
Center strength member	FRP FRP		
Cable O.D.	11.4±0.5 mm		
Cable weight	117 ± 15kg/km		

Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	2200N
2	Allowable crush resistance (N) (short term)	1000N /10cm
3	Application	Duct
4	Operation temperature	-20 ℃ +65 ℃



DUCT Cable GYFS-24 G652D

Cable cross-section and dimensions

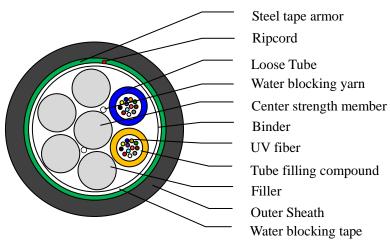


Figure. Cable Cross-Section (A-end)

Item	Material	Description	
Outer sheath	HDPE	HDPE	
Steel tape armor	Two side coated steel tape	Two side coated steel tape	
Ripcord	Ripcord	Easy for stripping	
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	PBT	Colors of tubes: blue, orange	
Filler	PP	Diameter same as tube	
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof	
Fiber	Silicon-based fiber(G.652D)	UV fiber, color with: blue, orange, green, brown, grey, white, red, black, yellow, purple, pink, aqua	
Center strength member	FRP FRP		
Cable O.D.	11.4±0.5 mm		
Cable weight	117±15kg/km		

Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	2200N
2	Allowable crush resistance (N) (short term)	1000N /10cm
3	Application	Duct
4	Operation temperature	-20 ℃ +65 ℃



DUCT Cable GYFS-36 G652D

Cable cross-section and dimensions

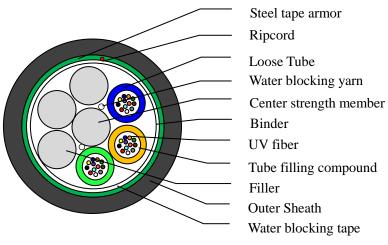


Figure. Cable Cross-Section (A-end)

Item	Material	Description	
Outer sheath	HDPE	HDPE	
Steel tape armor	Two side coated steel tape	Two side coated steel tape	
Ripcord	Ripcord	Easy for stripping	
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	PBT	Colors of tubes: blue, orange, green,	
Filler	PP	Diameter same as tube	
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof	
Fiber	Silicon-based fiber(G.652D)	UV fiber, color with: blue, orange, green, brown, grey, white, red, black, yellow, purple, pink, aqua	
Center strength member	FRP FRP		
Cable O.D.	11.4±0.5 mm		
Cable weight	117±15kg/km		

Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	2200N
2	Allowable crush resistance (N) (short term)	1000N /10cm
3	Application	Duct
4	Operation temperature	-20 ℃ +65 ℃



DUCT Cable GYFS-48 G652D

Cable cross-section and dimensions

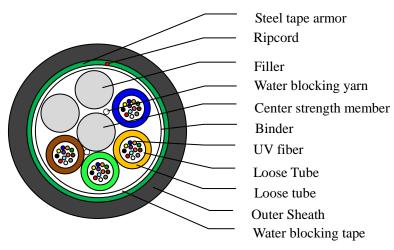


Figure. Cable Cross-Section (A-end)

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Item	Material	Description	
Outer sheath	HDPE	HDPE	
Steel tape armor	Two side coated steel tape	Two side coated steel tape	
Ripcord	Ripcord	Easy for stripping	
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	PBT	Colors of tubes: blue, orange, green,	
Loose tube	LDI	brown	
Filler	PP	Diameter same as tube	
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof	
	Ciliaan basad	UV fiber, color with: blue, orange,	
Fiber	Silicon-based fiber(G.652D)	green, brown, grey, white, red,	
		black, yellow, purple, pink, aqua	
Center strength member	FRP	FRP FRP	
Cable O.D.	11.4±0.5 mm		
Cable weight	117 ± 15kg/km		

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Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	2200N
2	Allowable crush resistance (N) (short term)	1000N /10cm
3	Application	Duct
4	Operation temperature	-20 ℃ +65 ℃



DUCT Cable GYFS-72 G652D

Cable cross-section and dimensions

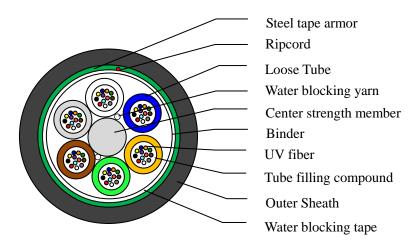


Figure. Cable Cross-Section (A-end)

Item	Material	Description	
Outer sheath	HDPE	HDPE	
Steel tape armor	Two side coated steel tape	Two side coated steel tape	
Ripcord	Ripcord	Easy for stripping	
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	PBT	Colors of tubes: blue, orange, green,	
Loose tube	LDI	brown, gray, white	
Tube filling compound	Thyrotrophic gel	Water Blocking & Moisture Proof	
	Silicon-based	UV fiber, color with: blue, orange,	
Fiber	fiber(G.652D)	green, brown, grey, white, red,	
	Hoer(G.032D)	black, yellow, purple, pink, aqua	
Center strength member	FRP FRP		
Cable O.D.	$11.4 \pm 0.5 \text{ mm}$		
Cable weight	118±15kg/km		

Serial No.	Item	Requirement
1	Allowable tensile strength (N)(short term)	2200N
2	Allowable crush resistance (N) (short term)	1000N /10cm
3	Application	Duct
4	Operation temperature	-20 ℃ +65 ℃



G.652D fiber characteristics		
	Optics specifications	
	@1310nm	≤0.350dB/km
Attenuation	@1383nm(after hydrogen aging)	≤0.350dB/km
	@1550nm	≤0.210dB/km
	@1625nm	≤0.240dB/km
Zero-Dispersion slope		$\leq 0.092 \text{ps/(nm}^2 \text{ km)}$
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 $\lambda_c(\mathrm{nm})$		1180nm≤λc≤1330nm
Cable cutoff wavelength $\lambda_{cc}(nm)$		≤1260nm
Back scatter characteristics (at 1310nm&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