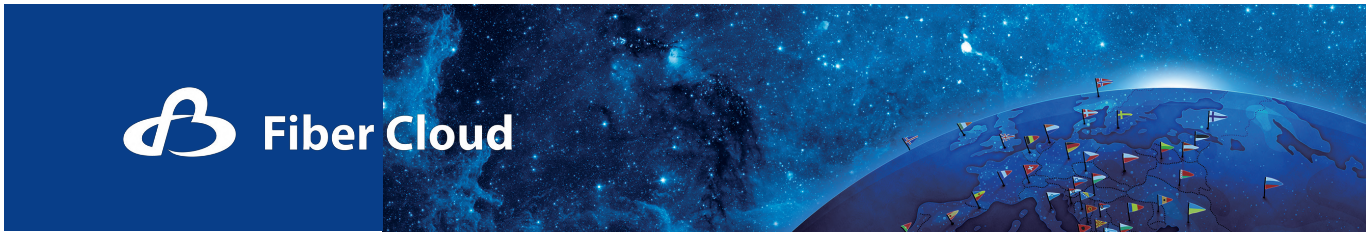
Fibercloud Structured Cabling Solutions



Fiber Cloud



Catalogue

EPFU(Enhanced Performance Fibre Units) ····· 03

GCYFY(Stranded Loose Tube Micro-duct Air-blown Cable) ····· 05

GYAXTC8Y(Central tube Small Figure-8 Cable) ····· 07

GYAXTC8Y-J(Small Figure-8 Stranded Steel Wire Central Tube Cable) ····· 09

GYXTC8S(Small Figure-8 Central Tube Armored Cable) ····· 11

GYFXBY(Flat Shape & Self-Supporting Central Tube Cable) ····· 13

GYGXY(Central Tube Non-metallic Armored Cable) ····· 15

GYXTW(Central Tube Light-armored Cable) ····· 17

GYFXY(Central Tube All Dielectric Cable) ····· 19

GYTS53(Anti-rodent Armored Cable) ····· 21

GYFY63(Stranded Loose Tube All Dielectric Anti-rodent Cable) ····· 23

GYFTY73(Stranded Loose Tube Non-metallic Armared Anti-rodent Cable) ····· 25

GYFTA54(Anti-rodent & Anti-termite Cable) ····· 27

GYFY(ALL DRY)(Stranded Gel-free Loose Tube Non-metallic Cable) ····· 29

GYFA(ALL DRY)(Stranded Gel-free Loose Tube APL Armored Cable) ····· 31

GYFS(ALL DRY)(Stranded Gel-free Loose Tube Steel Tape Armored Cable) ····· 33

GDFJAHP(Hybrid Optical and Electrical Cable with Tight Buffered Fibres) ····· 35

GDTA&GDTS(Hybrid Optical and Electrical Stranded Loose Tube Cable) ····· 37

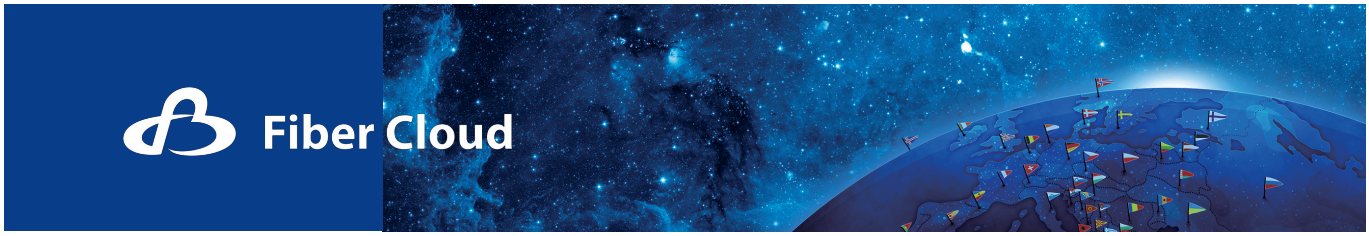
GYFZY-I(ALL DRY) (All Dielectric Fire-Resistant Stranded Gel-Free Loose Tube Cable) ····· 39

GYFZY-II(Semi-dry with mica tape) (All Dieletric Fire-Resistant Stranded Loose Cable) ····· 41

GYFZY-III(Semi-dry) (Stranded Loose Tube All Dielectric Flame Retardant Cable) ····· 43

GYFZS53(Stranded Loose Tube Double-Armored Fire-Resistant Cable) ····· 45

GYY(Stranded Loose Tube Non-armored Cable) ····· 47



Catalogue

GYFY(Stranded Loose Tube All dielectric Semi-dry Cable) ····· 49

GYFS(Stranded Loose Tube Semi-dry Light-armored Cable) ····· 51

GYFY53(Stranded Loose Tube Semi-dry Armored Cable) ····· 53

GYFTY(Stranded Loose Tube All Dielectric Cable) ····· 55

GYFTA(Stranded Loose Tube Non-metallic Strength Member Cable) ····· 57

GYFTS(Stranded Loose Tube Non-metallic Strength Member Light-armored Cable) ····· 59

GYFTA53(Stranded Loose Tube Non-metallic Strength Member Armored Cable) ····· 61

GYFC8Y(Semi-dry Self-supporting Figure 8 Cable) ····· 63

GYFTC8A(Self-supporting Figure 8 Cable) ····· 65

GYFC8S(Light Armored Self-supporting Figure 8 Cable) ····· 67

GYFC8Y53(Armored Self-supporting Figure 8 Cable) ····· 69

ADSS-Single Sheath(All Dielectric Self-supporting Single Sheath Aerial Cable) ····· 71

ADSS-Double Sheath(Semi-dry)(All Dielectric Self-supporting Semi-dry Double Sheath Aerial Cable) ···· 73

ADSS-Double Sheath(All Dielectric Self-supporting Double Sheath Aerial Cable) ····· 75

GJFJKH(Stainless Steel Flexible Hose Armored Cable) ····· 77

GJXH/GJXFH(Standard Bow-Type Drop Cable) ····· 79

GJXH(Small Size Bow-Type Drop Cable) ····· 81

GJYXCH/GJYXFCH(Standard Self-supporting Bow-Type Drop Cable) ····· 83

GJYXFCH(Small Size Self-supporting Bow-Type Drop Cable) ····· 85

GJPFH(Indoor Micro-breakout Cable For Vertical Wiring) ····· 87

GJPFXJH(Indoor Breakout Cable For Vertical Wiring) ····· 89

GYFJU(Round Drop Cable) ····· 91

GJJA(Fishing-line Cable) ····· 93

Colour Arrangement of Fibres in Loose Tube ····· 95

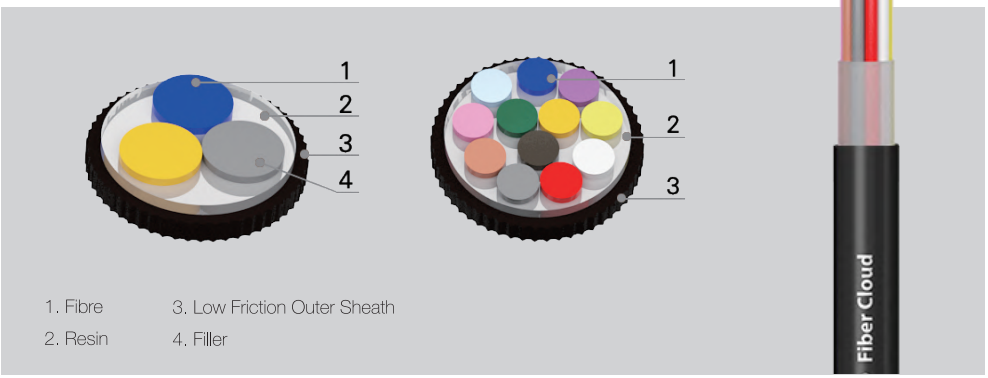
Fiber Cloud





Enhanced Performance Fibre Units (EPFU)

Cable Description



1. Fibre
2. Resin
3. Low Friction Outer Sheath
4. Filler

Features and Applications

- Totally dry design
- Non-metallic structure
- Small diameter and light weight
- Specially designed low friction sheath
- Suitable for air-blowing installation
- Blowing distance up to 1000 meters

Optical Characteristics

		G.652.D	G.657
Attenuation	@1310nm	⩽ 0.38 dB/km	⩽ 0.36 dB/km
	@1550nm	⩽ 0.25 dB/km	⩽ 0.23dB/km

Technical Data

Number Of Fibres	Number Of Units	Nominal Cable Dia (±0.1 mm)	Applicable Microduct (mm)	Nominal Weight (±0.5kg/km)
2/4	1	1.15	5/3.5 or 3/2.1	1.2
6/8	1	1.5	5/3.5 or 3/2.1	1.8
12	1	1.6	5/3.5 or 3/2.1	2.2



Cable type	Tensile strength (N)		Crush resistance (N/100mm)		Minimum Bending radius(mm)	
	Long term	Short term	Long term	Short term	During installation	After installation
EPFU	0.5G	1G	30	100	20D	10D

* "G" is the weight of cable per kilometer

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ≤ 0.1dB after test
Temperature Cycling	IEC 60794-1-2-F1	-30°C~+70°C	Attenuation change: ≤ 0.1dB/km after test

* All optical measurements at 1550nm

Packing and Reel Length

Specially designed drum for protection and easy installation.
Standard reel length 1/ 2/3 km/reel other length is also available.

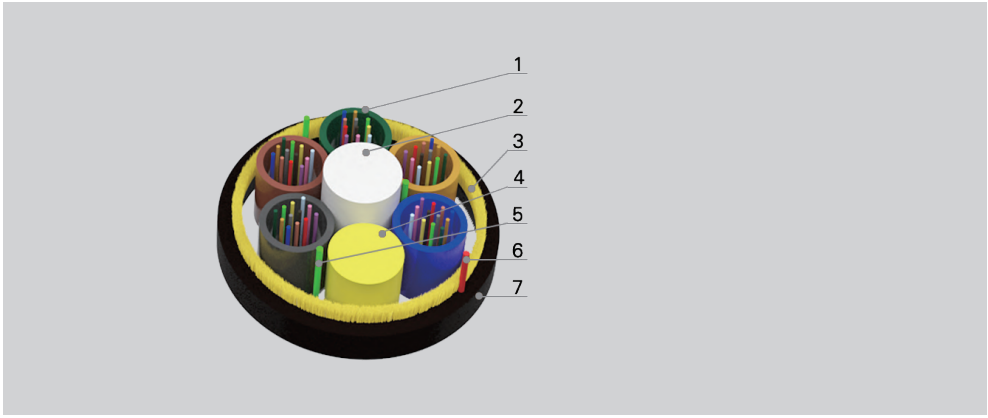
Fiber Cloud





Stranded Loose Tube Micro-duct Air-blown Cable (GCYFY)

Cable Description



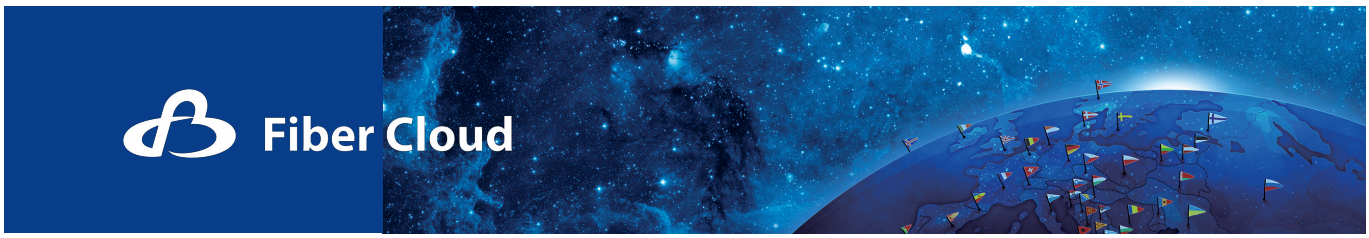
1. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
2. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP) coated with polyethylene when needed.
3. Binding Yarn
4. Filler Elements: thermoplastic rods.
5. Longitudinal Water Blocking Material: water blocking yarn.
6. Ripcord.
7. Outer Sheath: black polyethylene.

Features and Applications

- Small diameter and light weight
- Non-metallic structure
- Semi-dry core design, easy for splicing
- Suitable for long distance air blowing installation
- Blowing distance up to 1000m

Optical Characteristics

		G.652.D	G.657
Attenuation	@1310nm	⩽ 0.35 dB/km	⩽ 0.35 dB/km
	@1550nm	⩽ 0.22 dB/km	⩽ 0.21dB/km
Polarization Mode Dispersion	Lndividual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1ps/√km



Technical Data

Item	Contents	Value										
	Fibre Count	12	24	36	24	48	72	96	144	192	216	288
Loose tube	Number	2	4	6	2	4	6	8	12	16	18	24
	Outer Diameter(±0.1mm)	1.2			1.45							
Filler	Number	4	2	0	4	2	0	0	0	2	0	0
Fibre counts per tube	-	6			12							
Central Strength Member	Material	FRP										
	Diameter(mm)	1.2			1.6				1.8	1.5		2.0
	Coated CSM Diameter	-			-			2.4	4.1	-		2.8
Outer sheath	Material	HDPE										
	Color	Black										
	Thickness(mm)	Approx.0.5										
Cable Diameter(± 0.2mm)		4.3	4.3	4.3	5.4	5.4	5.4	6.0	7.6	7.6	7.6	9.1
Cable Weight(kg/km) Approx.		16	16	16	26	26	26	29	48	48	48	74
Operating Temperature Range(°C)		-40-+70										
Tensile Strength Short/ Long Term(N)		1.0 G/ 0.5 G										
Crush Resistance Short/Long Term (N/100mm)		450/150										

* "G" is the weight of cable per kilometer, the unit is Newton (N).
* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 2Nm,one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.1dB/km after test

* All optical measurements at 1550nm.

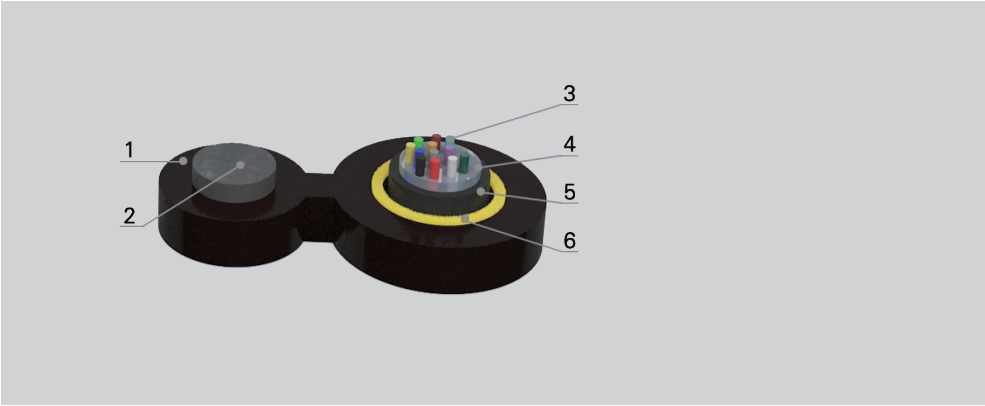
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3/4/5/6km/reel, other length is also available.



Central Tube Small Figure-8 Cable (GYAXTC8Y)

Cable Description



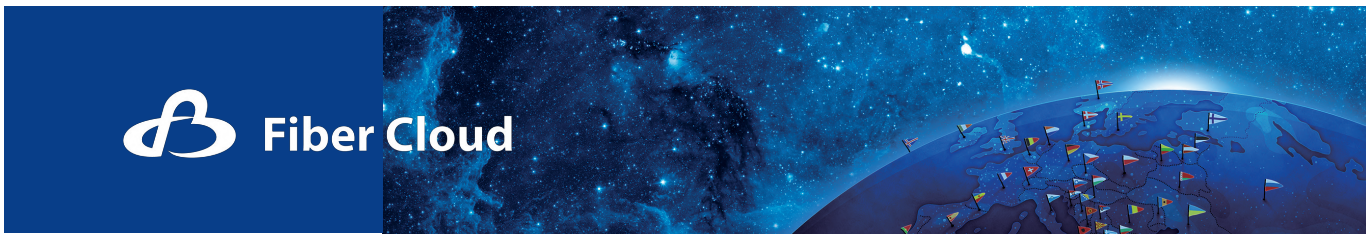
1. Outer Sheath: black polyethylene.
2. Messenger Wire : galvanized steel wire
3. Optical Fibre.
4. Tube Filling: suitable water blocking filling compound.
5. Loose Tube: high modulus thermoplastic material.
6. Peripheral Strength Member: aramid yarn.

Features and Applications

- Good mechanical and environment performance.
- Small size and light weight easy for installation.
- Self-supporting aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	2	4	6	12	18	24
Loose Tube	Outer Diameter (mm)	3.0	3.0	3.0	3.0	3.2	3.2
Steel Wire	Material	galvanized steel wire					
	Diameter (mm)	1.6					
Sheath	Material	PE					
	Thickness (mm)	Nominal:1.0					
Cable Diameter(mm) Approx.		5.4/*10.5mm				5.6/*10.5mm	
Cable Weight(kg/km) Approx.		46				48	
Operating Temperature Range(°C)		-40-+70					
Tensile Strength Short/ Long Term(N)		1500/600					
Crush Resistance Short/Long Term(N/100mm)		1000/300					

* The color arrangement of fibre is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

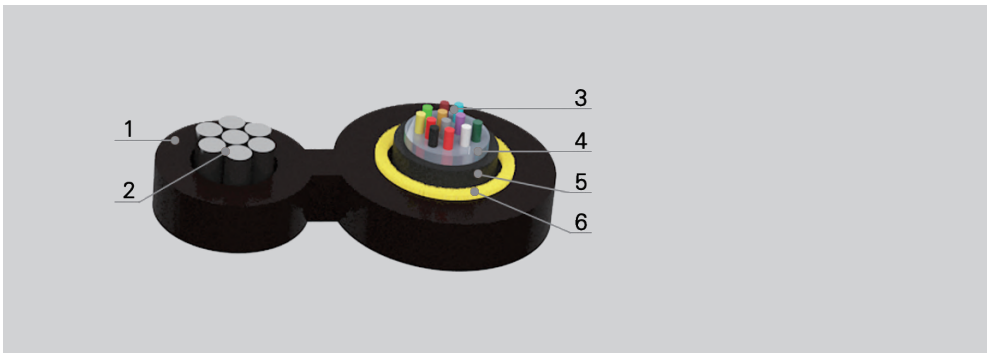
Packing and Reel Length

Standard wooden drum with protection
Standard reel length 2/3 km/reel, other length is also available.



Small Figure-8 Stranded Steel Wire Central Tube Cable (GYAXTC8Y-J)

Cable Description



1. Outer Sheath: black polyethylene.
2. Messenger Wire : galvanized stranded steel wire
3. Optical Fibre.
4. Tube Filling: suitable water blocking filling compound.
5. Loose Tube: high modulus thermoplastic material.
6. Peripheral Strength Member: aramid yarn.

Features and Applications

- Good mechanical and environment performance.
- Small size and light weight easy for installation.
- Self-supporting aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	2	4	6	12	18	24
Loose Tube	Outer Diameter (mm)	2.8	2.8	2.8	2.8	3.2	3.2
Steel Wire	Material	galvanzed steel wire					
	Diameter (mm)	7*0.8					
Sheath	Material	PE					
	Thickness (mm)	Nominal:0.8					
Cable Diameter(mm) Approx.		4.4*9.5mm				4.6*9.5mm	
Cable Weight(kg/km) Approx.		66				68	
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		1500/600					
Crush Resistance Short/Long Term(N/100mm)		1000/300					

* The color arrangement of fibre is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C ~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

Standard wooden drum with protection
Standard reel length 2/4 km/reel, other length is also available.

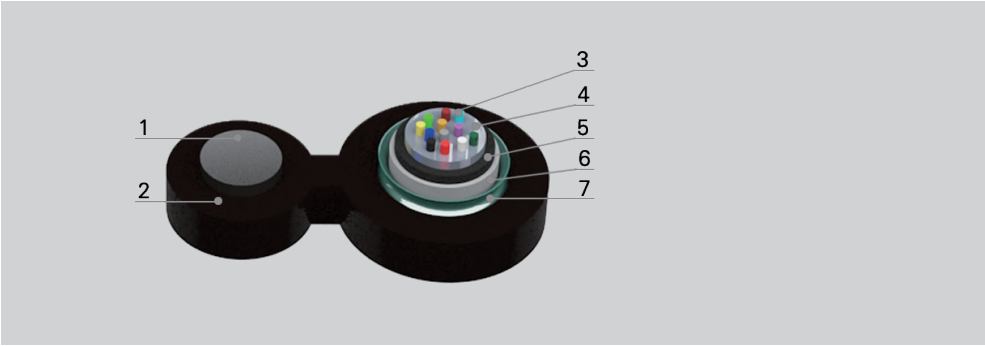
Fiber Cloud





Small Figure-8 Central Tube Armored Cable (GYXTC8S)

Cable Description



1. Messenger Wire :galvanized steel wire
2. Outer Sheath: black polyethylene.
3. Optical Fibre.
4. Tube Filling: suitable water blocking filling compound.
5. Loose Tube: high modules thermoplastic material.
6. Water Blocking Yarn.
7. Amour: corrugated steel tape.

Features and Applications

- Good mechanical and environmental Performances.
- Small size and light weight, easy for installation.
- Self-supporting aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	2	4	6	12	18	24
Loose Tube	Outer Diameter (mm)	3.0				3.2	
Steel Wire	Material	galvanized steel wire					
	Diameter (mm)	1.6					
Sheath	Thickness (mm)	Nominal 0.8					
Cable Diameter(mm) Approx.		7.0*13.0mm					
Cable Weight(kg/km) Approx.		82					
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		1500/600					
Crush Resistance Short/Long Term(N/100mm)		1000/300					

* The color arrangement of fibre is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C ~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

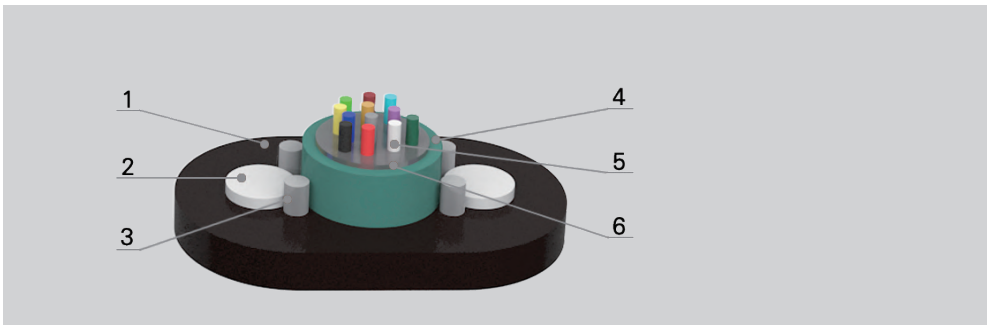
Packing and Reel Length

Standard wooden drums with protection.
Standard reel length 2/4 km/reel, other length is also available.



Flat Shape & Self-Supporting Central Tube Cable (GYFXBY)

Cable Description



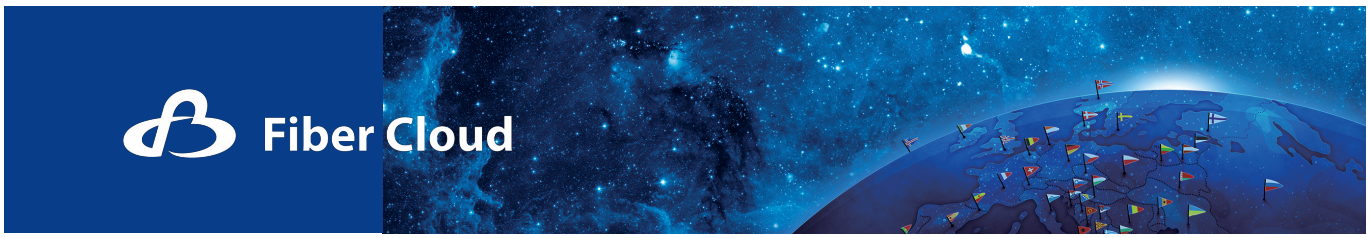
1. Outer Sheath: black polyethylene.
2. Strength Member: glass fibre reinforced plastic rod (FRP).
3. Water Blocking Material: water blocking yarn.
4. Loose Tube: thermoplastic material.
5. Optical Fibre.
6. Tube Filling: suitable water blocking filling compound.

Features and Applications

- Lighting resistance
- Small size and light weight
- Easy for installation and splicing
- Self-supporting aerial installation

Optical Characteristics

		G.652.D	G.657.A	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.36 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.22 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	4	6	8	12	16	24
Loose Tube	Number	1	1	1	1	1	1
	Outer diameter (mm)	3.0				3.2	
Strength member	material	FRP					
	diameter (mm)	Nominal 1.6					
Sheath	Thickness (mm)	Nominal 0.8					
Cable Size(Width*Height) (mm) Approx.		(8.1±0.3)*(4.6±0.3)					
Cable weight(kg/km) Approx.		35					
Operating temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		1200/400					
Crush Resistance Short/Long Term (N/100mm)		2200/1100					

* The color arrangement of fibre is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*H	Additional attenuation ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

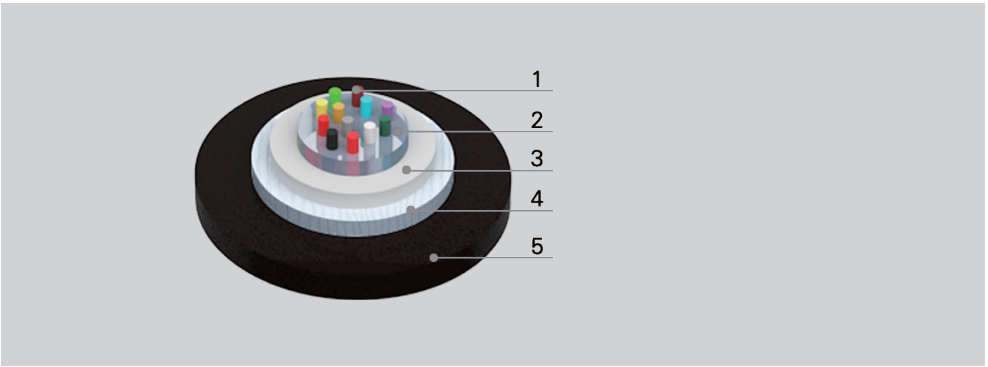
Standard wooden drums with protection.
Standard reel length 2/3 km/reel, other length is also available.



Central Tube Non-metallic Armored Cable (GYGXY)



Cable Description



1. Optical Fibre.
2. Tube Filling: suitable water blocking filling compound.
3. Loose Tube: high modules thermoplastic material.
4. Strength Member: glass yarn or FRP tape.
5. Outer Sheath: black polyethylene.

Features and Applications

- Lighting resistance.
- Non-metallic structure.
- Duct installation and aerial installation together with tension strand wire.
- Suitable for FTTH application as drop cable.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	4	6	8	12	16	24
Loose Tube	Number	1					
	Outer diameter (mm)	3.0				3.2	
Strength member	material	Fibre glass yarn or FRP tape					
Sheath	Thickness (mm)	nominal: 1.2					
Cable diameter(mm) Approx.		6.7				7.0	
Cable weight(kg/km) Approx.		36				43	
Operating temperature Range(°C)		-20~+70					
Tensile Strength Short/ Long Term(N)		1000/300					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-20°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

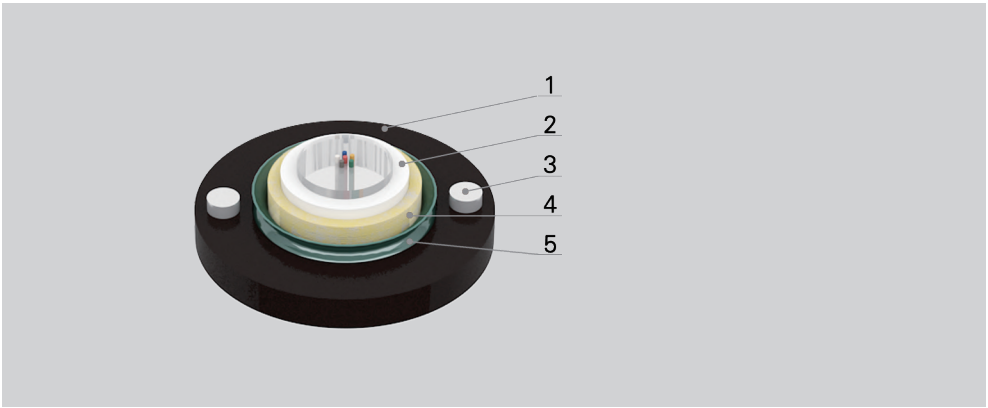
Packing and Reel Length

Standard wooden drums with protection.
Standard reel length 2/3 km/reel, other length is also available.



Central Tube Light-armored Cable (GYXTW)

Cable Description



1. Outer Sheath: black polyethylene.
2. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
3. Strength Member: two phosphate steel wires.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Armor: corrugated steel tape.

Features and Applications

- High crush resistance.
- Small diameter and light weight.
- Duct or direct buried installation or aerial installation together with tension strand wire.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value		
	Fibre Count	6	12	24
Loose tube	No. of tubes*fibres per tube	1*6	1*12	1*24
	Outer diameter (mm)	3.0	3.0	3.2
Strength member	Material	Phosphated steel wire		
	Diameter (mm)	1.2		
Water blocking material	Material	Water blocking tape		
Armor	Material	Corrugated steel tape		
Sheath	Thickness (mm)	Nominal:2.6		
Cable diameter(mm) Approx.		10.6		
Cable weight(kg/km) Approx.		100		
Operating temperature Range(℃)		-40~+70		
Tensile Strength Short/ Long Term(N)		1500/600		
Crush Resistance Short/Long Term (N/100mm)		3000/1000		

* The color arrangement of fibre is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C ~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

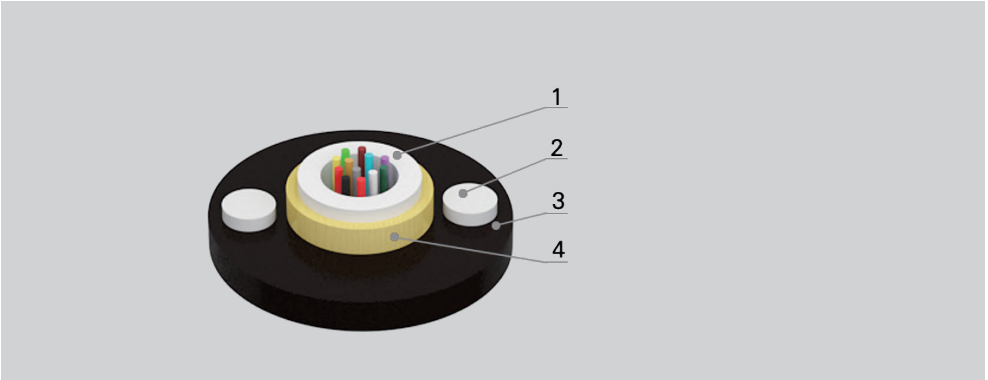
Standard wooden drums with protection.
Standard reel length 2/4 km/reel, other length is also available.



Central Tube All Dielectric Cable (GYFXY)



Cable Description



1. Loose Tube: thermoplastic material, containing optical fibres anfilled withgel.
2. Strength Member: two glass fibre reinforced plastic rods (FRP).
3. Outer Sheath: black polyethylene.
4. Longitudinal Water Blocking Material: water blocking yarn.

Features and Applications

- Small diameter, light weight, easy for transportation and installation.
- Duct installation or aerial installation.
- Lighting resistance

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value	
	Fibre Count	6	12
Loose tube	No. of tubes*fibres per tube	1*6	1*12
	Outer diameter (mm)	2.0	
Strength member	Material	FRP	
	Diameter (mm)	1.0	
Water blocking material	Material	Water blocking yarn	
Sheath	Thickness (mm)	Nominal:2.5	
Cable diameter(mm) Approx.		7.5	
Cable weight(kg/km) Approx.		65	
Operating temperature Range(°C)		-20~+70	
Tensile Strength Short/ Long Term(N)		1000/300	
Crush Resistance Short/Long Term (N/100mm)		1000/300	

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-20°C~+70°C	Attenuation change ≤ 0.05dB/km after test

* All optical measurements at 1550nm.

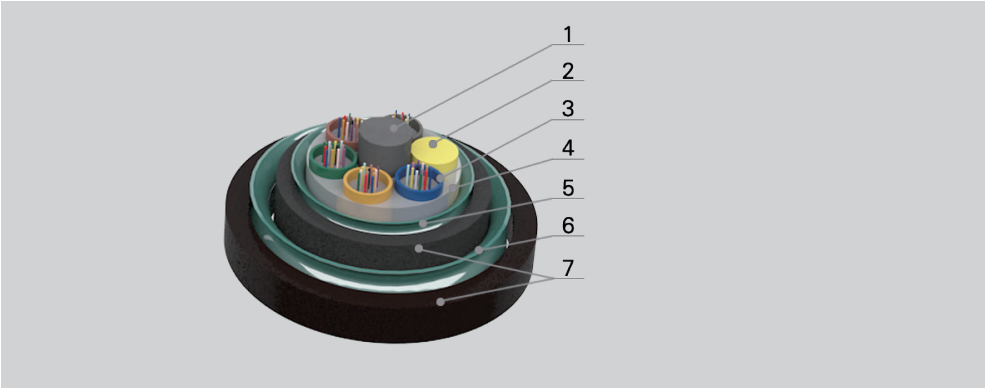
Packing and Reel Length

Standard wooden drum with protection
Standard reel length 2/3 km/reel, other length is also available.



Anti-rodent Armored Cable (GYTS53)

Cable Description



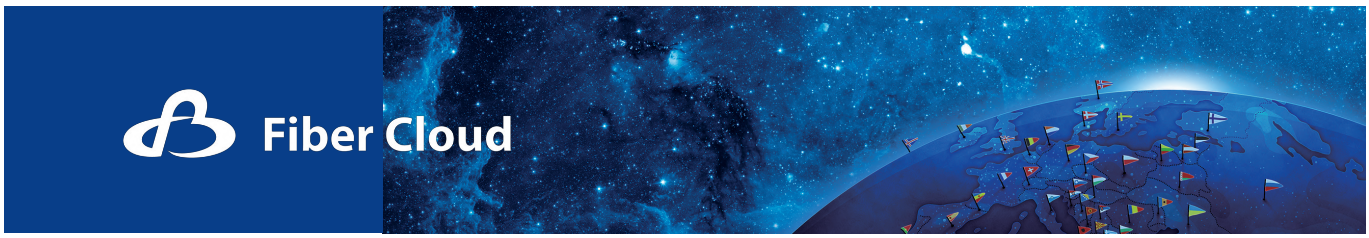
1. Central Strength Member (CSM): phosphate steel wire, coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: cable filling compound.
5. Armor: corrugated steel tape.
6. Anti-rodent Armor: corrugated steel tape.
7. Inner and Outer Sheath: black polyethylene.

Features and Applications

- Excellent Anti-rodent performance.
- Excellent crush resistance.
- Direct-buried installation and aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	Phosphated steel wire					
	Diameter (mm)	2.0	2.0	2.0	2.0	2.0	2.0
	Coated CSM diameter(mm)	-	2.6	2.6	4.2	7.4	4.8
Water blocking material	Material	Cable filling compound					
Armor	Material	Corrugated steel tape					
Inner sheath	Thickness (mm)	Nominal:1.0					
Anti-rodent armor	Material	Corrugated steel tape					
Outer sheath	Thickness (mm)	Nominal:2.0					
Cable Diameter (mm) Approx.		14.2	15.7	15.7	17.5	21.0	23.0
Cable Weight(kg/km) Approx.		230	265	265	305	390	460
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		3000/1000					
Crush Resistance Short/Long Term (N/100mm)		3000/1000					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm,one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m,Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

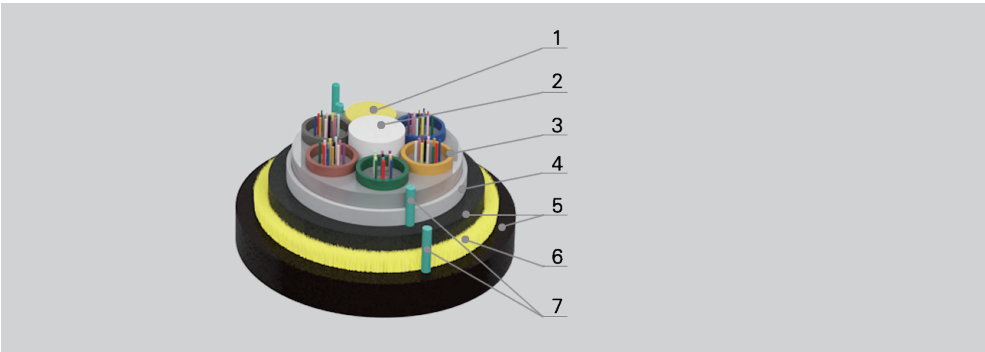
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube All Dielectric Anti-rodent Cable (GYFY63)

Cable Description



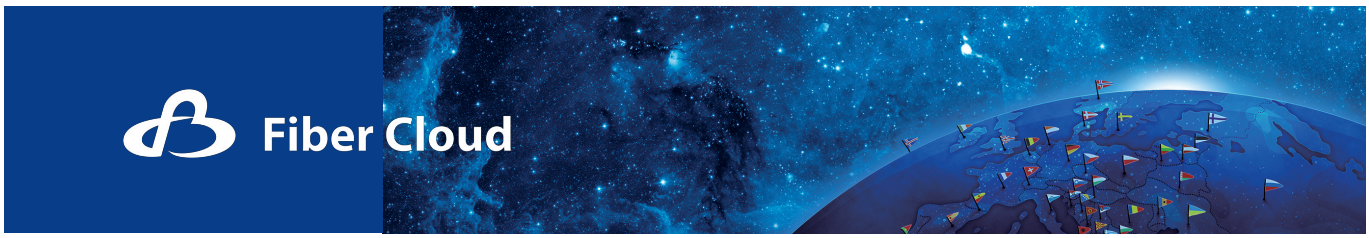
1. Filler Elements: thermoplastic rods.
2. Central Strength Member (CSM): glas fibre reinforced plastic rod (FRP) ,coated with polyethylene when needed.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Inner and Outer Sheath: black polyethylene.
6. Armor: glass yarn.
7. Ripcord: two polyester ripcords under each sheath.

Features and Applications

- Non-metallic design, good tensile and crush resistance.
- Excellent anti-rodent performance.
- Duct or direct buried installation.
- Semi-dry core design, easy for installation and splice.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	Phosphated steel wire					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Inner sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Glass yarn					
Outer sheath	Thickness (mm)	Nominal:2.0					
Cable Diameter(mm) Approx.		13.0	13.8	14.6	16.2	19.4	22.2
Cable Weight(kg/km) Approx.		145	165	175	205	270	340
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		2200/700					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

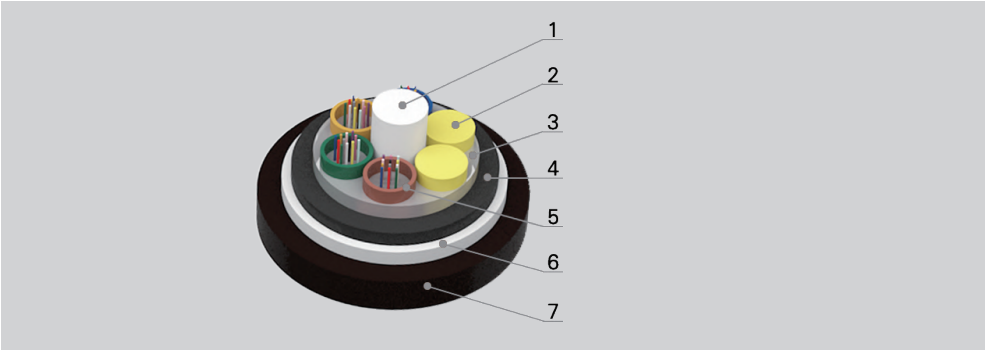
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Non-metallic Armored Anti-rodent Cable (GYFTY73)

Cable Description



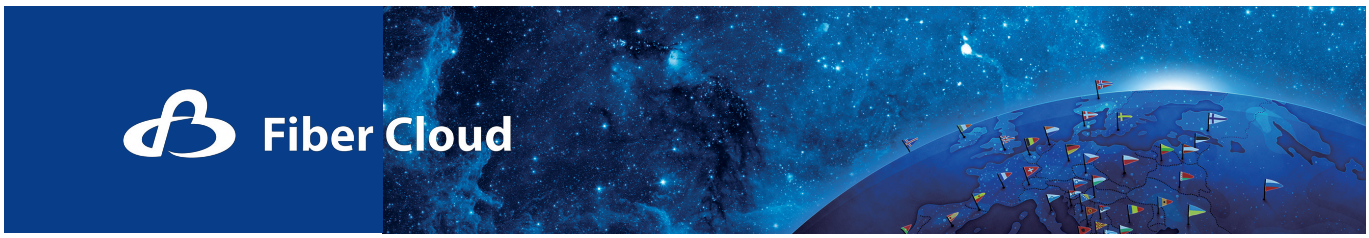
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP) coated with polyethylene when needed.
2. Filler.
3. Longitudinal Water Blocking Material: cable filling compound.
4. Inner Sheath: black polyethylene.
5. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
6. Non-metallic Armor: FRP tape.
7. Outer Sheath: black polyethylene.

Features and Applications

- Lighting resistance.
- Non-metallic armored structure.
- Duct installation, direct buried or aerial installation.
- Rodent proof design.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value				
	Fibre Count	24	48	72	96	144
Loose Tube	No. of tubes*fibres per tube	2*12	4*12	6*12	8*12	12*12
	Outer diameter (mm)	2.2				
Central Strength Member	Material	FRP				
	Diameter (mm)	2.25			2.6	2.8
	Coated CSM diameter (mm)	-			3.7	6.1
Inner Sheath	Material	HDPE				
	Thickness (mm)	Nominal:1.0				
Sheath	Material	PE				
	Thickness (mm)	Nominal:1.8				
Cable Diameter(mm) Approx.		13.0			14.6	16.8
Cable Weight(kg/km) Approx.		132			152	196
Operating Temperature Range(°C)		-40~+70				
Tensile Strength Short/ Long Term(N)		2700/900				
Crush Resistance Short/Long Term (N/100mm)		1000/300				

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=25*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

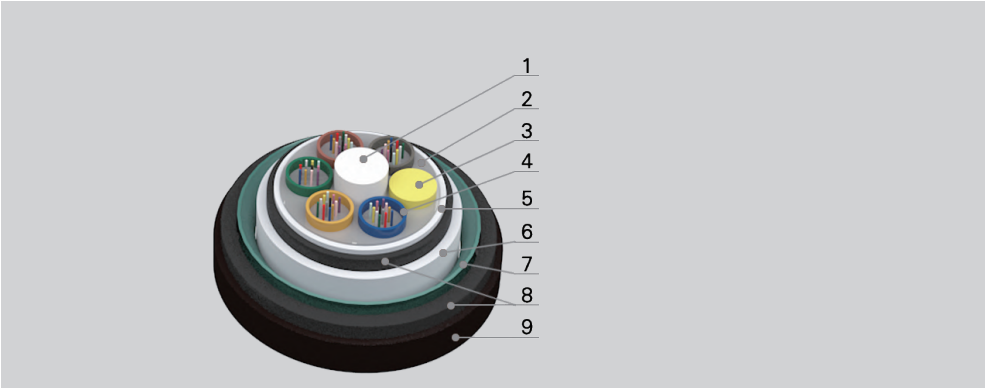
Standard wooden drum with protection.
Standard reel length: 2/3/4km/reel, other length is also available.



Anti-rodent & Anti-termite Cable (GYFTA54)



Cable Description



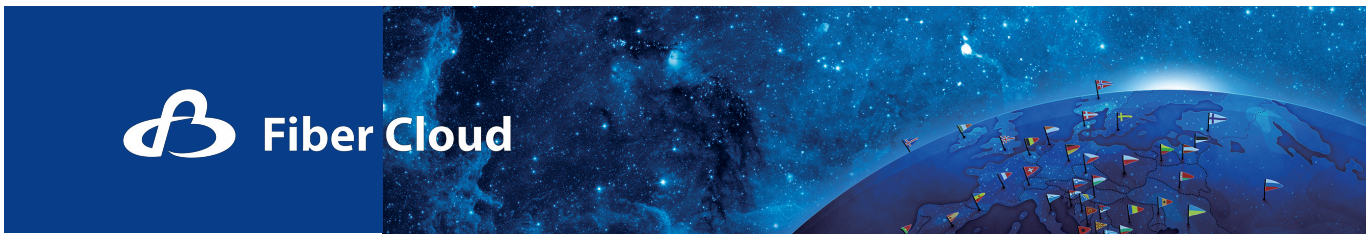
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
2. Longitudinal Water Blocking Material: cable filling compound.
3. Filler Elements: thermoplastic rods.
4. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
5. Moisture-proof: laminated aluminum tape.
6. Longitudinal Water Blocking Material: cable filling compound.
7. Armor: corrugated steel tape.
8. Inner and Middle Sheath: black polyethylene.
9. Anti-termite Sheath: nylon

Features and Applications

- Rodent and termite resistance
- Good crush resistance
- Direct buried installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.25	2.6	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Cable filling compound					
Moisture-proof	Material	Laminated aluminum tape					
Inner sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Corrugated steel tape					
Middle sheath	Thickness (mm)	Nominal:1.5					
Outer sheath	Thickness (mm)	Nominal:0.5					
Cable Diameter(mm) Approx.		14.4	15.0	15.0	16.8	20.0	22.4
Cable Weight(kg/km) Approx.		225	250	250	300	370	465
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		3000/1000					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

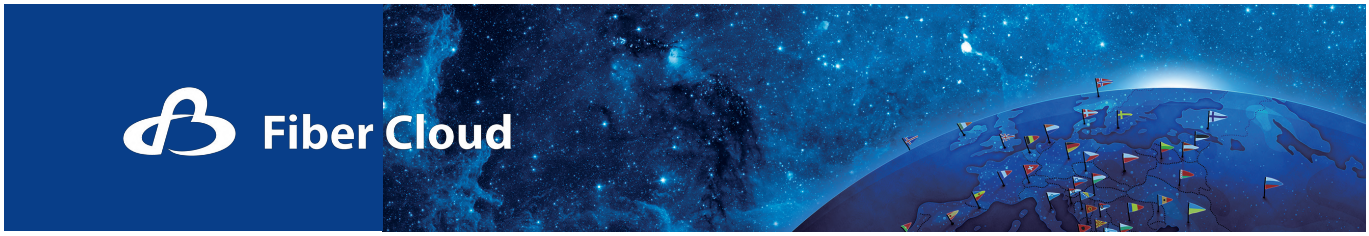
Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

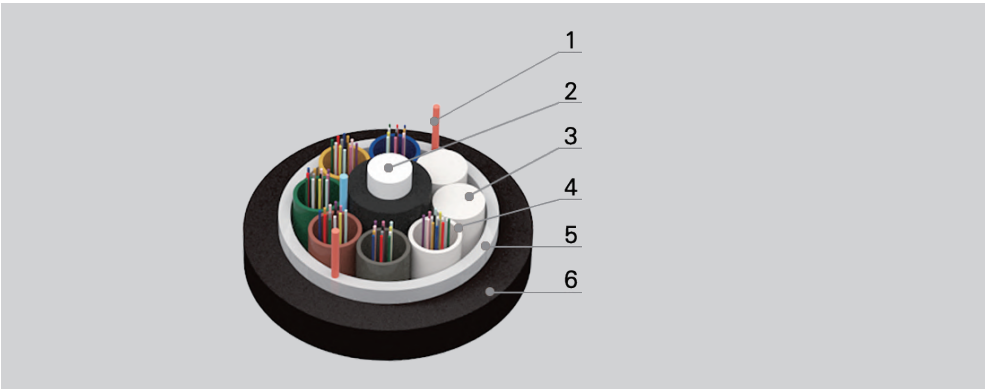
Standard wooden drum with protection.
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Gel-free Loose Tube Non-metallic Cable (GYFY(ALL DRY))



Cable Description



1. Ripcord
2. Central Strength Member: glass fibre reinforced plastic rod (FRP) coated with PE when needed.
3. Filler Elements: thermoplastic rods.
4. Loose Tube: thermoplastic material, containing optical fibres and water blocking yarn.
5. Longitudinal Water Blocking Material: water blocking tape.
6. Outer Sheath: black polyethylene.

Features and Applications

- Lighting resistance.
- Gel-free and Non-metallic structure.
- Duct installation and aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	2*12	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	2.4					
	Material	FRP					
Central strength member	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Sheath	Thickness (mm)	Nominal: 1.8					
Cable diameter(mm) Approx.		11.0	11.0	11.6	13.0	16.0	18.5
Cable weight(kg/km) Approx.		100	100	105	120	180	225
Operating temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change ≤ 0.05dB/km after test

* All optical measurements at 1550nm.

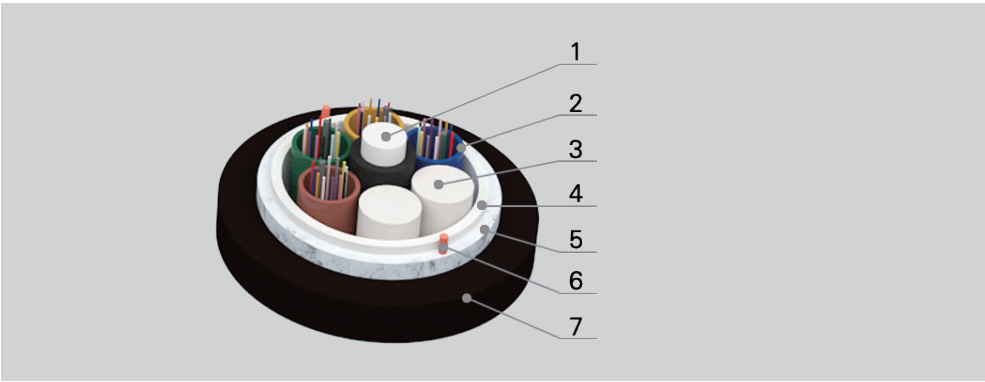
Packing and Reel Length

Standard wooden drum with protection
Standard reel length 2/3 km/reel, other length is also available.



Stranded Gel-free Loose Tube APL Armored Cable (GYFA(ALL DRY))

Cable Description



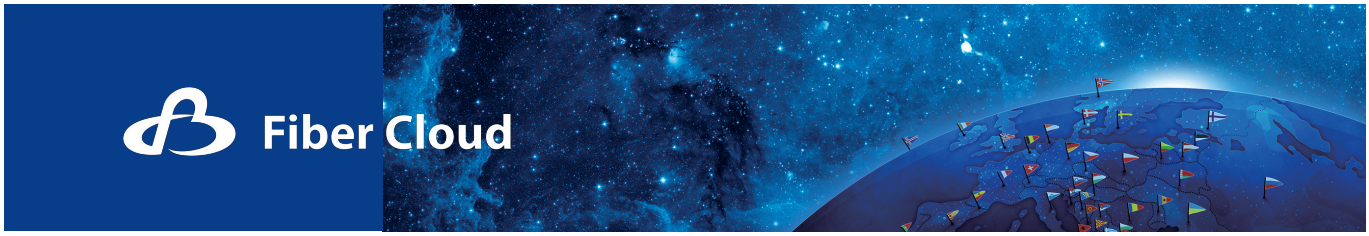
1. Central Strength Member: glass fibre reinforced plastic rod (FRP) coated with PE when needed.
2. Loose Tube: thermoplastic material, containing optical fibres and water blocking yarn.
3. Filler Elements: thermoplastic rods.
4. Longitudinal Water Blocking Material: water blocking tape.
5. APL
6. Ripcord
7. Outer Sheath: black polyethylene.

Features and Applications

- Gel-free cable structure.
- Easy for installation and splicing.
- Duct installation and aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	2*12	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	2.4					
	Material	FRP					
Central strength member	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Sheath	Thickness (mm)	Nominal 1.8					
Cable diameter(mm) Approx.		12.0	12.0	12.5	14.0	17.0	19.5
Cable weight(kg/km) Approx.		120	120	125	155	225	295
Operating temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change ≤ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

Standard wooden drum with protection.
Standard reel length 2/3 km/reel, other length is also available.

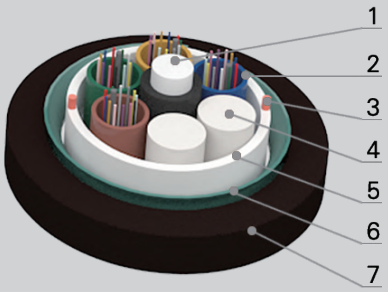
Fiber Cloud



Stranded Gel-free Loose Tube Steel Tape armored Cable (GYFS(ALL DRY))



Cable Description



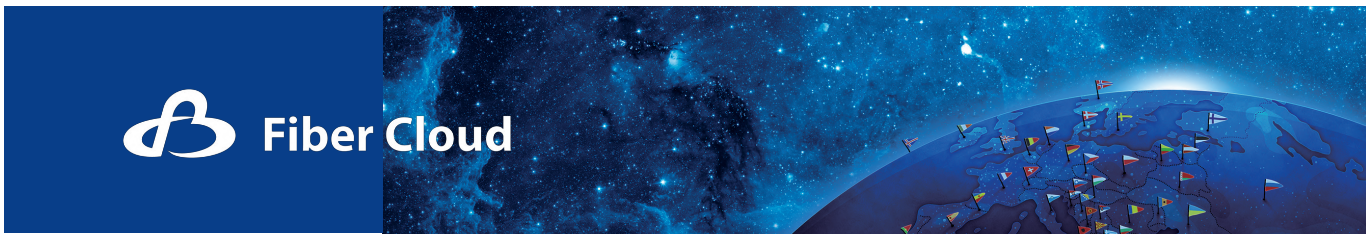
1. Central Strength Member: glass fibre reinforced plastic rod (FRP) coated with PE when needed.
2. Loose Tube: thermoplastic material, containing optical fibres and water blocking yarn.
3. Ripcord
4. Filler Elements: thermoplastic rods.
5. Longitudinal Water Blocking Material: water blocking tape.
6. Armor: corrugated steel tape.
7. Outer Sheath: black polyethylene.

Features and Applications

- Gel-free cable structure.
- Easy for installation and splicing.
- Duct installation and aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	2*12	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	2.4					
Central strength member	Material	FRP					
	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Sheath	Thickness (mm)	Nominal 1.8					
Cable diameter(mm) Approx.		12.5	12.5	13.0	14.5	17.5	20.0
Cable weight(kg/km) Approx.		130	130	140	175	255	320
Operating temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change ≤ 0.05dB/km after test

* All optical measurements at 1550nm.

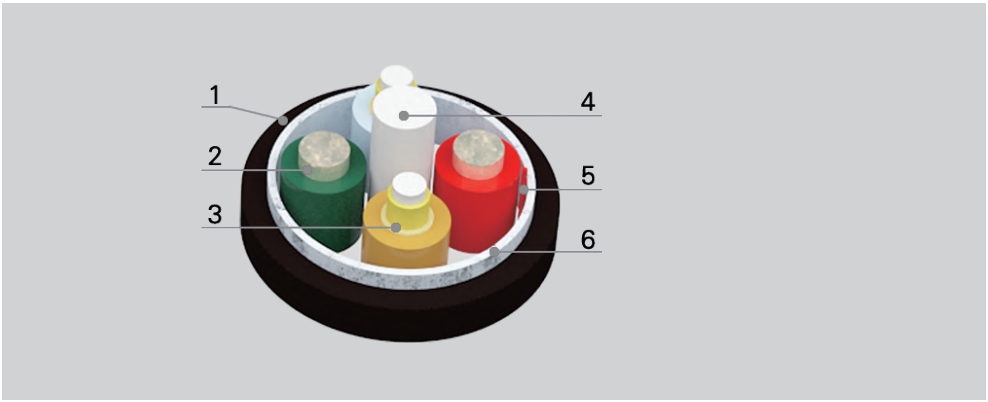
Packing and Reel Length

Standard wooden drum with protection.
Standard reel length 2/3 km/reel, other length is also available.



Hybrid Optical and Electrical cable with Tight Buffered Fibres (GDFJAHP)

Cable Description



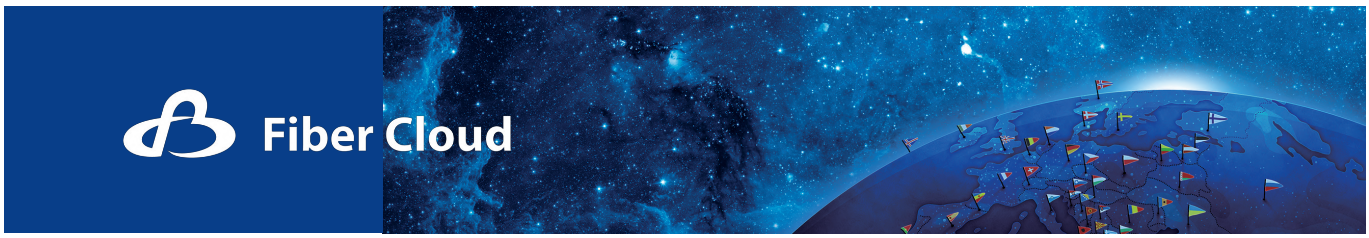
1. Outer Jacket: black LSZH.
2. Feeder Conductor: copper wire.
3. Optical Unit: tight buffered fibre.
4. Central Strength Member(CSM): FRP (coated with PE when needed).
5. Ripcord
6. Metallic Shielding Layer: Aluminum tape.

Features and Applications

- Optical and electrical hybrid design can decrease the construction and installation cost of wireless base station.
- Good flame retardant performance suitable for indoor installation.

Optical Characteristics

		G.652.D	50/125μm	62.5/125μm
Attenuation	@850nm	-	⩽ 3.5 dB/km	⩽ 3.5 dB/km
	@1300nm	-	⩽ 1.5 dB/km	⩽ 1.5 dB/km
	@1310nm	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.30 dB/km	-	-
Bandwidth	@850nm	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	-	-



Technical Data

Product type	Product spec	Outer diameter Approx(mm)	Weight Approx (Kg/km)	Structure Type	Tensile (N)	Crush (N/100mm)
GDFJAHP	6B6a2+2*0.5	10.5	105	Type Ⅱ	200/400	800/2000
GDFJAHP	2B6a2+2*1.0	8.0	78	Type Ⅰ	200/400	800/2000
GDFJAHP	2B6a2+2*1.5	9.5	105	Type Ⅰ	200/400	800/2000
GDFJAHP	2B6a2+2*2.0	10.3	119	Type Ⅰ	200/400	800/2000
GDFJAHP	2B6a2+2*4.0	11.5	159	Type Ⅰ	200/400	800/2000

* 2* 0.5/2* 1.0/ 2*1.5/ 2*2.0/ 2*4.0 denotes conductor count and spec.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation ≤ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation ≤ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm one in 3 different places	Additional attenuation ≤ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation ≤ 0.1dB after test
Temperature Cycling	IEC 60794-1-2-F1	-30°C~+70°C	Attenuation change: ≤ 0.05dB/km after test

* All optical measurements at 1550nm.

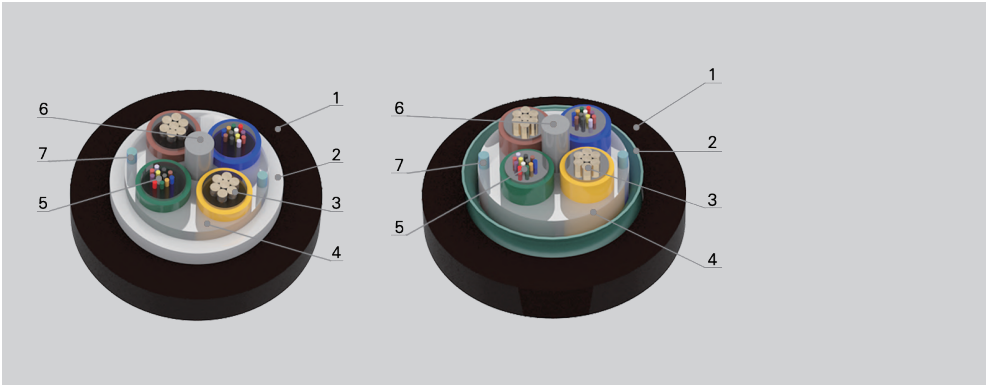
Packing and Reel Length

Standard wooden drum with protection.
Standard reel length 1/ 2 km/reel, other length is also available.



Hybrid Optical and Electrical Stranded Loose Tube Cable (GDTA&GDTS)

Cable Description



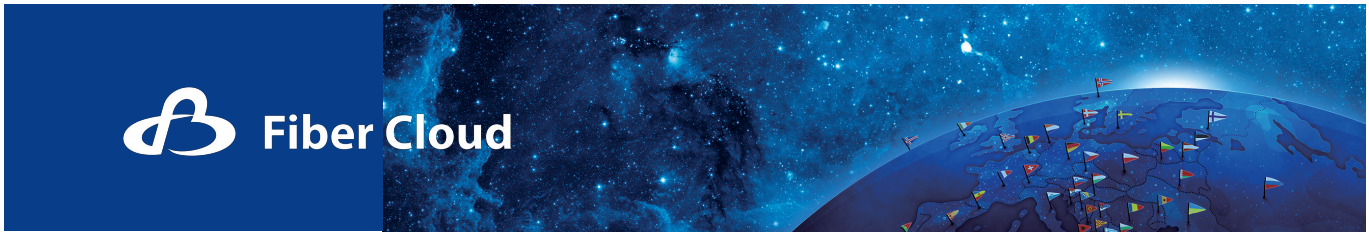
1. Outer Sheath: black PE.
2. Metallic Shielding Layer: Aluminum tape/Steel tape.
3. Feeder Conductor: copper wire.
4. Water Blocking Material: cable filing compound.
5. Optical unit: Loos tube containing optical fibres and filled with gel.
6. Central Strength Member(CSM): Phosphated steel wire (coated with PE when needed).
7. Ripcord

Features and Applications

- Optical and electrical hybrid design can decrease the construction and installation cost of wireless base station.
- Suitable for remote power and data supply for RRU.

Optical Characteristics

		G.652.D	50/125μm	62.5/125μm
Attenuation	@850nm	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.35 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	-	-
Bandwidth	@850nm	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	-	-



Technical Data

Product type	Product spec	Outer diameter Approx(mm)	Weight Approx (Kg/km)	Structure Type	Tensile properties (N)	Crush properties (N/100mm)
GDTA	02~24B1.3+2*1.5	11.2	132	Type I	600/1500	300/1000
GDTA	02~24B1.3+2*2.5	12.3	164	Type II	600/1500	300/1000
GDTA	02~24B1.3+2*4.0	13.4	212	Type II	600/1500	300/1000
GDTA	02~24B1.3+2*5.0	14.6	258	Type III	600/1500	300/1000
GDTA	02~24B1.3+2*6.0	15.4	287	Type III	600/1500	300/1000
GDTA	02~24B1.3+2*8.0	16.5	350	Type IV	600/1500	300/1000

Product type	Product spec	Outer diameter Approx(mm)	Weight Approx (Kg/km)	Structure Type	Tensile properties (N)	Crush properties (N/100mm)
GDTS	02~24B1.3+2*1.5	11.6	157	Type I	600/1500	300/1000
GDTS	02~24B1.3+2*2.5	12.5	190	Type II	600/1500	300/1000
GDTS	02~24B1.3+2*4.0	13.6	241	Type II	600/1500	300/1000
GDTS	02~24B1.3+2*5.0	15.0	282	Type III	600/1500	300/1000
GDTS	02~24B1.3+2*6.0	15.7	300	Type III	600/1500	300/1000
GDTS	02~24B1.3+2*8.0	16.9	383	Type IV	600/1500	300/1000

* 2* 1.5/2* 2.5/ 2*4.0/ 2*5.0/ 2*6.0/2*8.0 denotes conductor count and spec.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm,one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m,Water height=1m, 24 hours	No water leakage except conductor area
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70 °C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

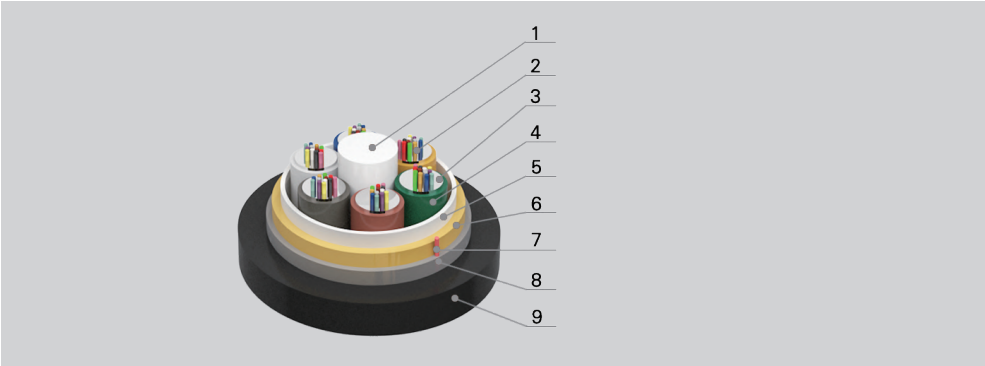
Packing and Reel Length

Standard wooden drum or hybrid steel and wooden drum with protection.
Standard reel length:2/3 km/reel, other length is also available.



All Dielectric Fire-Resistant Stranded Gel-Free Loose Tube Cable (GYFZY-I (all dry))

Cable Description



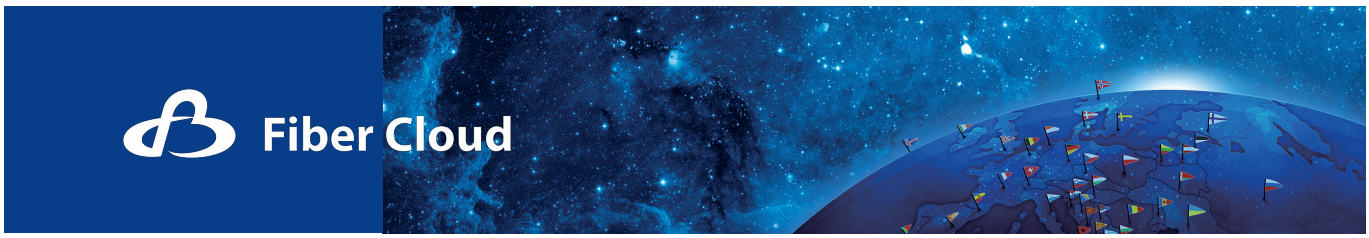
1. Central Strength Member(CSM): glass fibre reinforced plastic rod (FRP), coated with LSZH when needed.
2. Optical Fibre
3. Water Blocking Material: water blocking yarn.
4. Loose Tube: high modules thermoplastic material.
5. Longitudinal Water Blocking: water blocking tape.
6. Fire-resistant Layer: mica tape.
7. Ripcord
8. Non-metallic Strength Member: Fibre glass yarn(if needed)
9. Outer Jacket: black LSZH Sheath.

Features and Applications

- Totally dry core design, easy for installation and splice.
- Good flame-retardant and fire resistant performance.
- Fully comply with IEC 60332-1-2, IEC 60332-3-24, IEC 60331-11/25 (comply 750°C*90Minutes), IEC 60754-1~2, IEC 61034
- Suitable for the telecom system in the subway, tunnel and mine.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	12	36	72	96	144	
Loose Tube	No. of tubes*fibres per tube	1*12	3*12	6*12	8*12	12*12	6*24
	Outer diameter (mm)	2.2	2.2	2.2	2.2	2.2	3.0
Central Strength Member	Material	FRP					
	Diameter (mm)	2.25	2.25	2.25	2.25	2.6	2.0
	LSZH layer diameter (mm)	-	-	-	3.7	6.7	3.2
Fire-Resistant layer	Fire-Resistant tape	Mica tape					
Peripheral strength member	Non-metallic strength layer	Fibre glass yarn					
Outer Sheath	Thickness (mm)	Nominal:2.5					
Cable Diameter(mm) Approx.		12.5	12.5	12.5	13.3	16.4	15.0
Cable Weight(kg/km) Approx.		160	160	160	195	257	210
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		2000/800					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

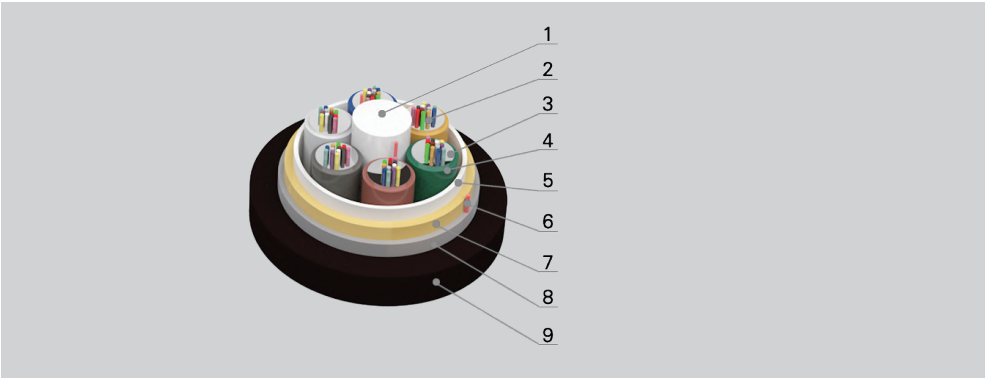
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



All Dielectric Fire-Resistant Stranded Loose Tube Cable (GYFZY-II (Semi-dry with mica tape))

Cable Description



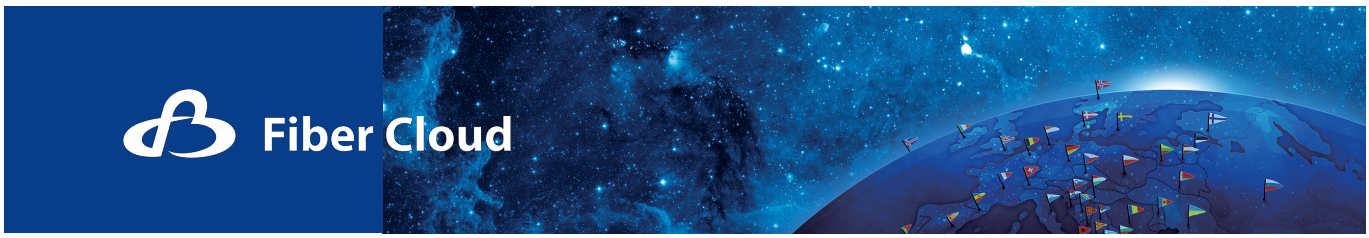
1. Central Strength Member(CSM): glass fibre reinforced plastic rod (FRP), coated with LSZH sheath when needed.
2. Optical Fibre
3. Tube Filling compound
4. Loose Tube: high modules thermoplastic material.
5. Longitudinal Water Blocking Material: water blocking tape.
6. Ripcord
7. Fire-resistant Layer: mica tape.
8. Non-metallic Strength Member : Fibre glass yarn(if needed)
9. Outer Jacket: black LSZH.

Features and Applications

- Semi-dry core design, easy for installation and splice.
- Good flame retardant and fire resistance performance.
- Fully comply with IEC 60332-1-2, IEC 60332-3-24, IEC 60331-11/25 (comply 750°C*90Minutes), IEC 60754-1~2.
- Suitable for the telecom system in the subway, tunnel and mine.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value						
	Fibre Count	4	24	36	60	72	96	144
Loose Tube	No. of tubes*fibres per tube	1*4	4*6	6*6	5*12	6*12	8*12	12*12
	Outer diameter (mm)	1.9	1.9	1.9	2.4	2.4	2.4	2.4
Central Strength Member	Material	FRP						
	Diameter (mm)	2.0	2.0	2.0	2.6	2.6	2.6	2.6
	LSZH layer diameter (mm)	-	-	-	-	-	4.2	7.4
Fire-Resistant layer	Fire-Resistant tape	Mica tape						
Peripheral strength member	Non-metallic strength layer	Fibre glass yarn						
Outer Sheath	Thickness (mm)	Nominal:2.0						
Cable Diameter(mm) Approx.		10.3	10.3	10.3	12.0	12.0	13.6	16.8
Cable Weight(kg/km) Approx.		120	120	120	180	180	218	274
Operating Temperature Range(°C)		-40~+70						
Tensile Strength Short/ Long Term(N)		2700/900						
Crush Resistance Short/Long Term (N/100mm)		2000/800						

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

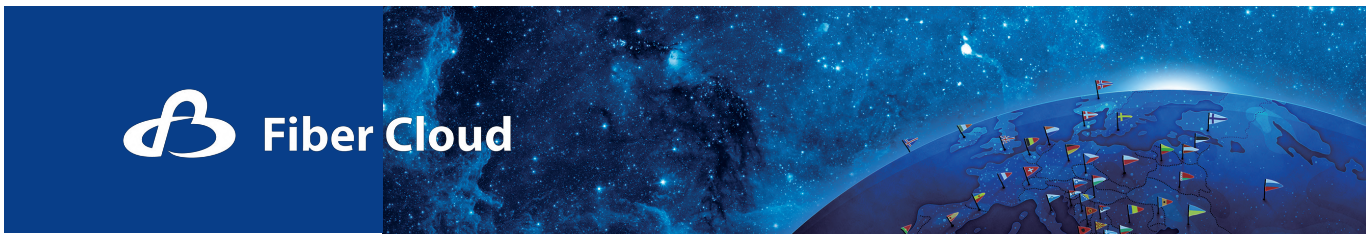
Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

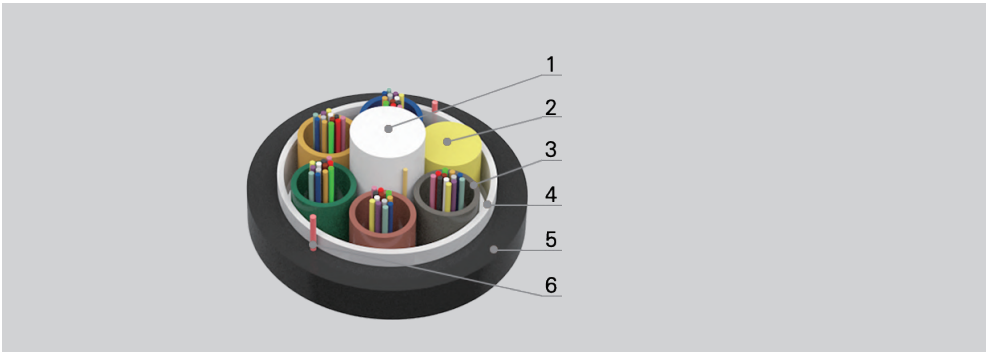
Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.





Stranded Loose Tube All Dielectric Flame Retardant Cable (GYFZY-III (Semi-dry))

Cable Description



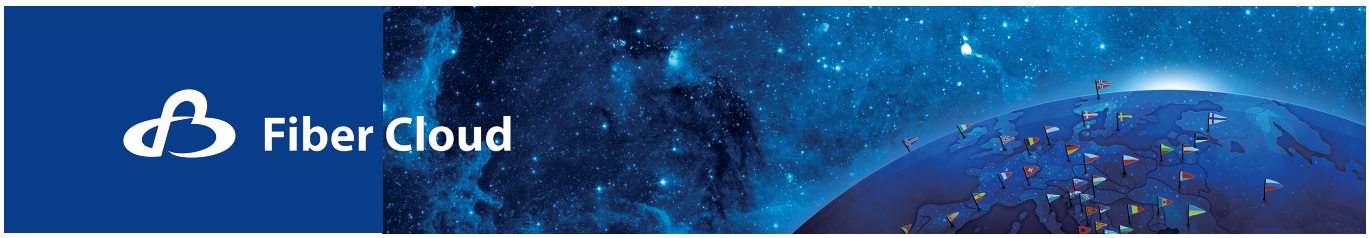
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene sheath when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Outer Sheath: flame retardant material.
6. Ripcord

Features and Applications

- Good flame retardant performance.
- Non-metallic structure and lighting resistance.
- Semi-dry core design, easy for installation and splice.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Sheath	Thickness (mm)	Nominal:1.8					
Cable Diameter(mm) Approx.		10.0	10.8	11.6	13.2	16.4	19.2
Cable Weight(kg/km) Approx.		105	115	130	170	240	290
Operating Temperature Range(°C)		-20~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-20°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

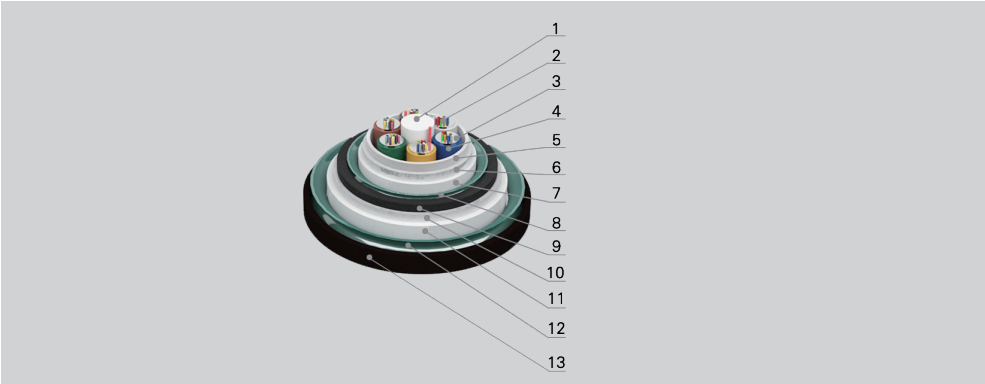
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Double-Armored Fire-Resistant Cable (GYFZS53)

Cable Description



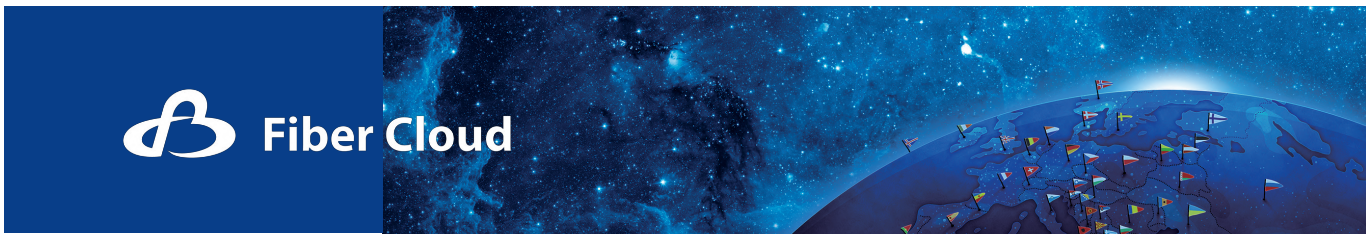
1. Central Strength Member(CSM): glass fibre reinforced plastic rod (FRP),coated with LSZH sheath when needed.
2. Optical Fibre
3. Tube Filling Compound
4. Loose Tube: high modules thermoplastic material, containing optical fibres and filled with gel.
5. Longitudinal Water Blocking Material: water blocking yarn or tape.
6. Fire-Resistant Layer: mica tape.
7. Same to 5
8. Armor: corrugated steel tape.
9. Inner Sheath: black LSZH.
10. Fire-Resistant Layer: mica tape.
11. Same to 5
12. Armor: corrugated steel tape.
13. Outer Sheath: black LSZH.

Features and Applications

- Semi-dry core design, easy for installation and splice.
- Good flame retardant and fire resistance performance.
- Fully comply with IEC 60332-1-2, IEC 60332-3-24, IEC 60331-11/25 (comply 750°C*90Minutes), IEC 60754-1~2, IEC 61034(smoke density ⩾50%)
- Suitable for the telecom system in the subway , tunnel and mine.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	12	36	72	96	144	192
Loose Tube	No. of tubes*fibres per tube	1*12	3*12	6*12	8*12	12*12	16*12
	Outer diameter (mm)	2.1					
Central Strength Member	Material	FRP					
	Diameter (mm)	2.25	2.25	2.25	2.25	2.6	2.25
	Coating Diameter (mm)	-	-	-	3.7	6.1	-
Fire-Resistant Tape	1ST Inner Layer	Mica tape					
Outer Sheath	Thickness (mm)	Nominal: 2.0					
Cable Diameter(mm) Approx.		16.5	16.5	16.5	18.1	21.5	21.5
Cable Weight(kg/km) Approx.		280	280	280	350	520	560
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		3000/1000					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

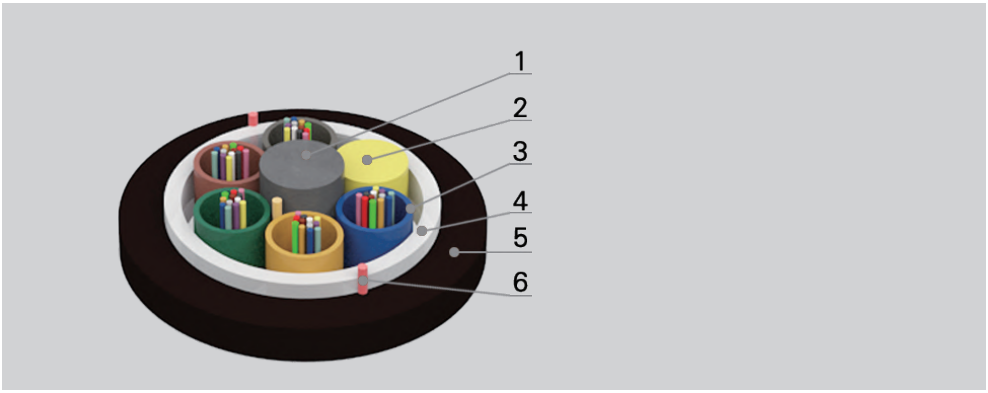
Packing and Reel Length

Standard wooden drum with protection.
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Non-armored Cable (GYY)

Cable Description



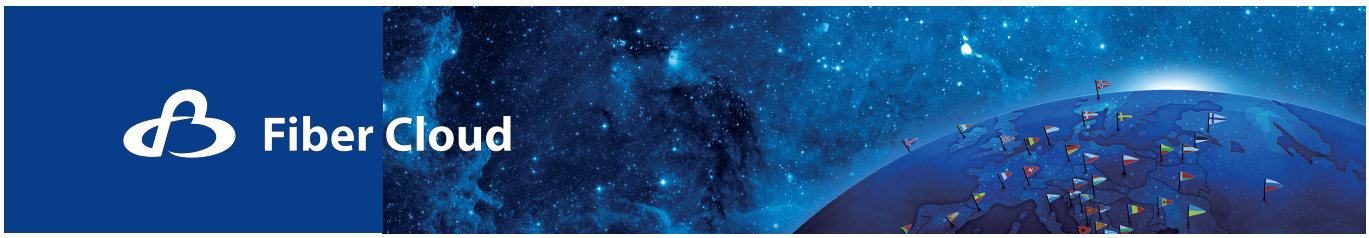
1. Central Strength Member (CSM): phosphate steel wire, coated with polyethylene.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Outer Sheath: black polyethylene.
6. Ripcord.

Features and Applications

- High tensile strength and semi-dry core design.
- Specially designed for easy sheath removal.
- Duct installation or aerial installation.

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	12	24	48	72	96	144
Loose Tube	No. of tubes*fibres per tube	2*6	2*12	4*12	6*12	8*12	12*12
	Outer diameter (mm)	1.9	2.1				
Central Strength Member	Material	Phosphate steel wire					
	Diameter (mm)	1.8				2.0	2.0
	Coated CSM diameter (mm)	2.3				3.5	6.1
Water blocking material	Material	Water blocking tape					
Sheath	Thickness (mm)	Nominal:1.6					
Cable Diameter(mm) Approx.		9.9	10.4	10.4	10.4	11.5	14.2
Cable Weight(kg/km) Approx.		88	88	90	92	120	160
Operating Temperature Range(°C)		-20~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		2000/600					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-20°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

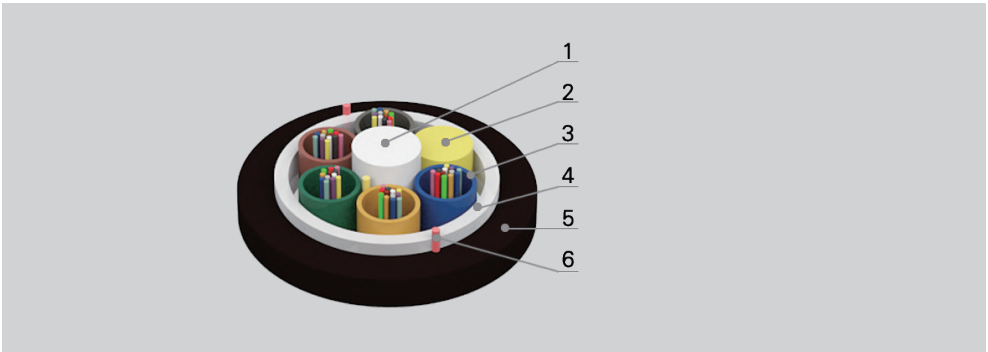
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube All dielectric Semi-dry Cable (GYFY)

Cable Description



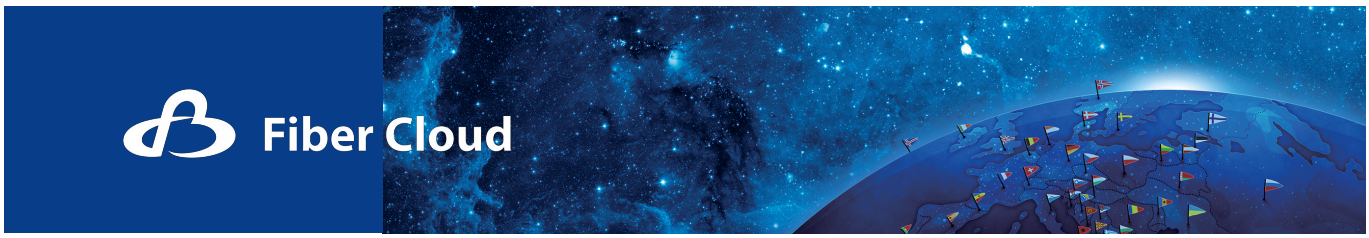
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Outer Sheath: black polyethylene.
6. Ripcord

Features and Applications

- Non-metallic structure
- Lighting resistance
- Duct installation or aerial installation.
- Semi-dry core design, easy for installation and splice

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Sheath	Thickness (mm)	Nominal:1.8					
Cable Diameter(mm) Approx.		10.0	10.8	11.6	13.2	16.4	19.2
Cable Weight(kg/km) Approx.		85	100	120	155	220	275
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

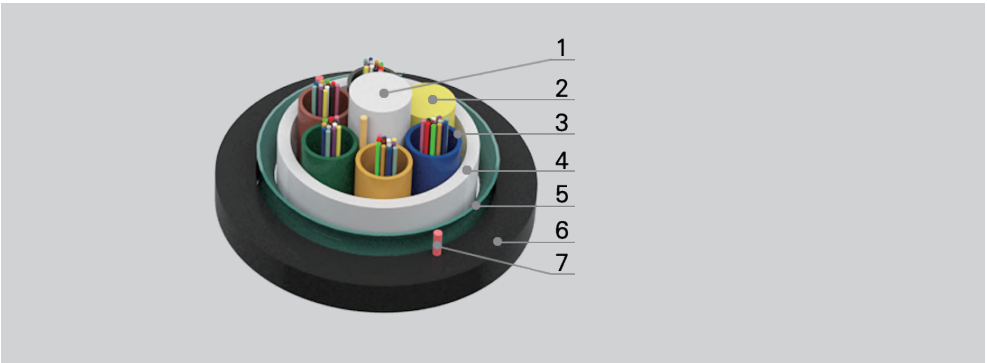
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Semi-dry Light-armored Cable (GYFS)

Cable Description



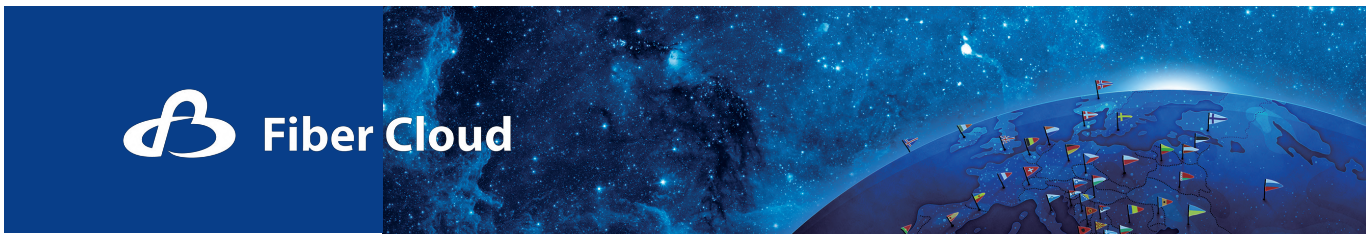
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Armor: corrugated steel tape.
6. Outer Sheath: black polyethylene.
7. Ripcord:

Features and Applications

- Good crush resistance
- Duct installation or aerial installation
- Semi-dry core design, easy for installation and splice

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Armor	Material	Corrugated steel tape					
Sheath	Thickness (mm)	Nominal:1.8					
Cable Diameter(mm) Approx.		11.1	12.1	12.6	14.6	17.6	20.6
Cable Weight(kg/km) Approx.		110	130	165	205	280	350
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush Resistance Short/Long Term (N/100mm)		2000/600					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

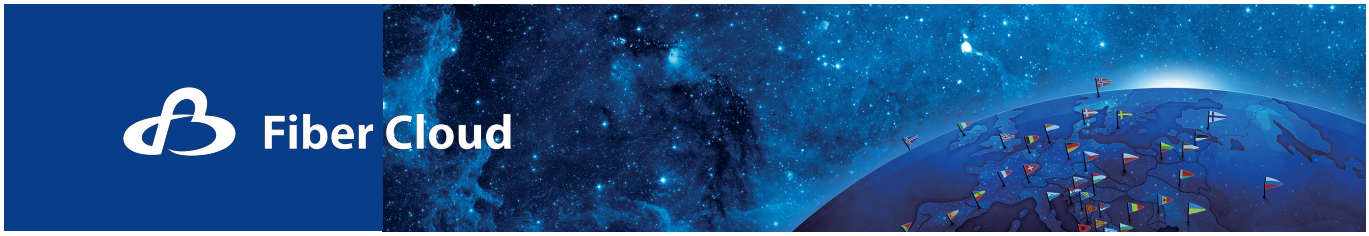
Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

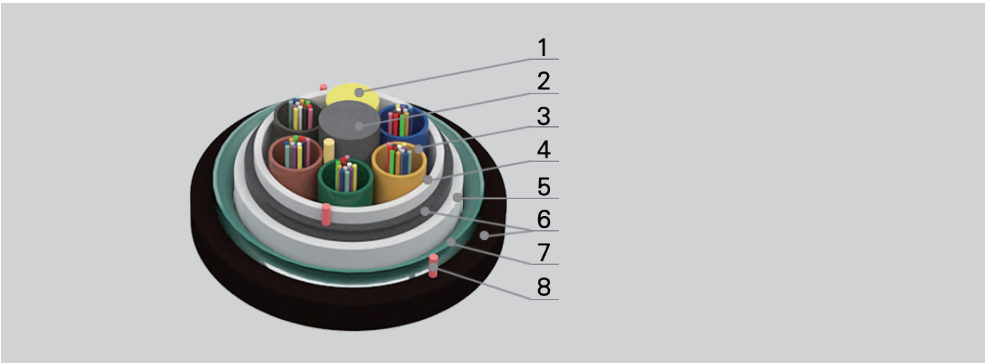
Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.





Stranded Loose Tube Semi-dry Armored Cable (GYFY53)

Cable Description



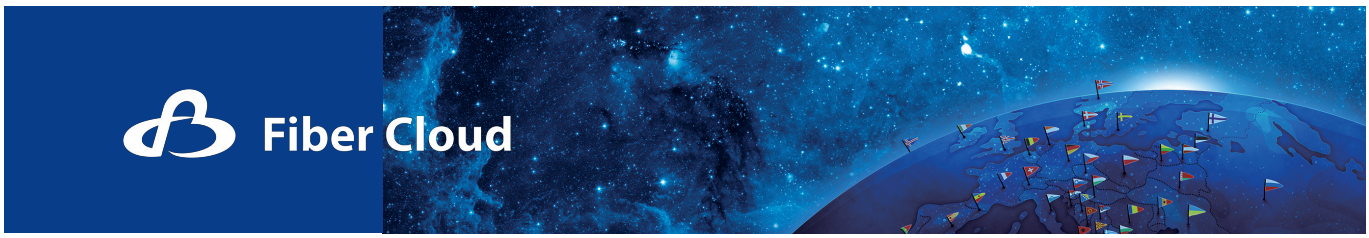
1. Filler Elements: thermoplastic rods.
2. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: water blocking tape.
5. Longitudinal Water Blocking Material: water blocking yarn.
6. Inner and Outer Sheath: black polyethylene.
7. Armor: corrugated steel tape.
8. Ripcord

Features and Applications

- Excellent crush resistance
- Direct-buried installation
- Semi-dry core design, easy for installation and splice

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.25	2.6	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Inner sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Corrugated steel tape					
Outer sheath	Thickness (mm)	Nominal:2.0					
Cable Diameter(mm) Approx.		14.4	15.4	15.4	16.8	20.2	22.4
Cable Weight(kg/km) Approx.		200	230	230	270	350	430
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		3000/1000					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

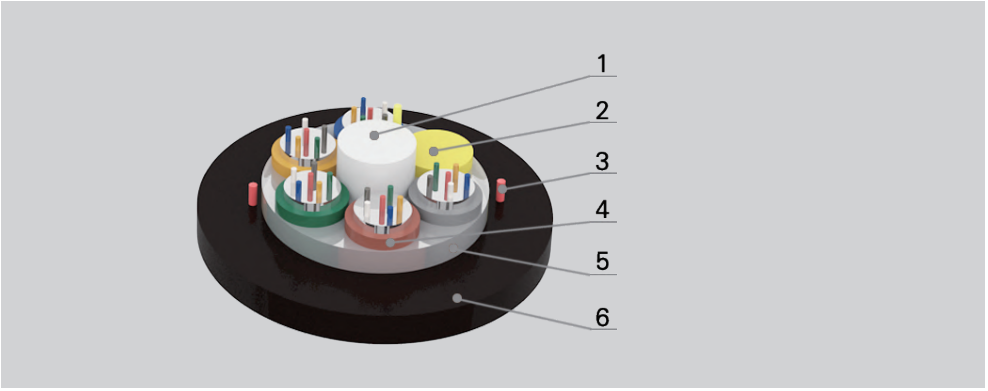
Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube All Dielectric Cable (GYFTY)



Cable Description



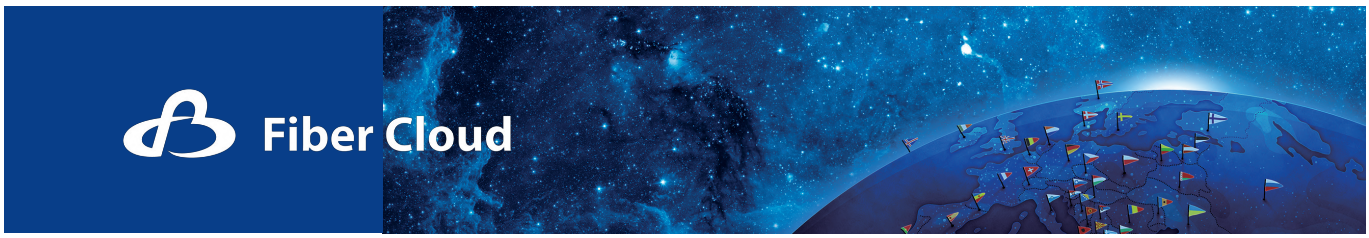
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Ripcord
4. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
5. Longitudinal Water Blocking Material: cable filling compound.
6. Outer sheath: black polyethylene.

Features and Applications

- Non-metallic structure
- Lighting resistance
- Duct installation or aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Cable filling compound					
Sheath	Thickness (mm)	Nominal:1.8					
Cable Diameter(mm) Approx.		9.8	10.2	11.1	13.2	16.4	18.8
Cable Weight(kg/km) Approx.		80	90	105	150	220	270
Operating Temperature Range(°C)		-10~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-10°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

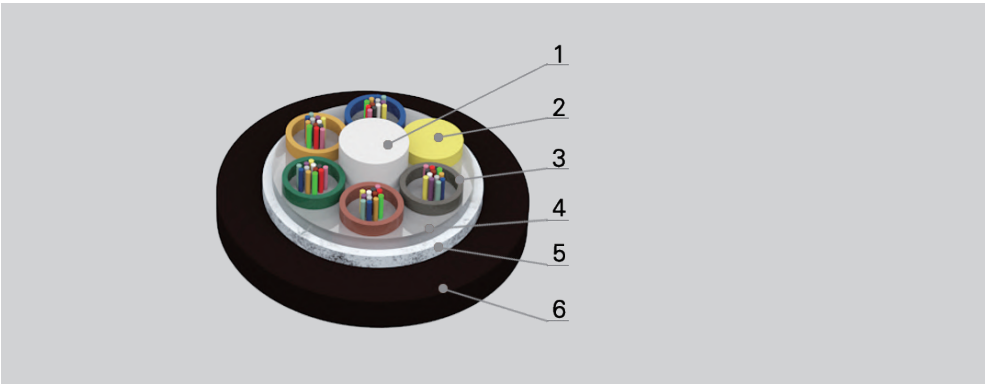
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Non-metallic Strength Member Cable (GYFTA)

Cable Description



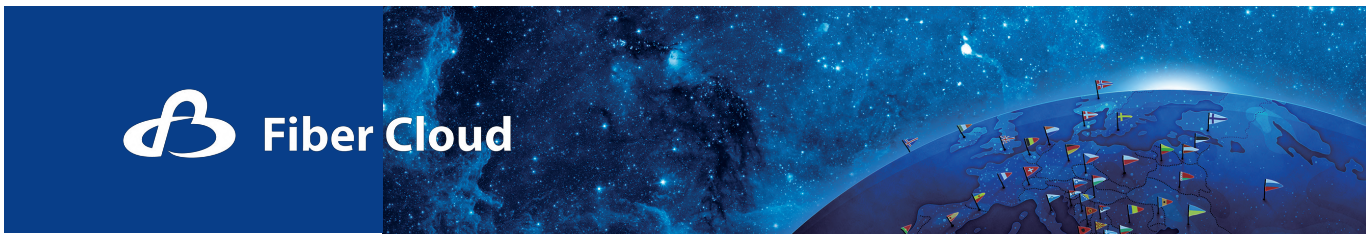
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: cable blocking compound.
5. Moisture-proof: laminated aluminum tape.
6. Outer Sheath: black polyethylene.

Features and Applications

- Good flexibility
- Duct installation or aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Moisture-proof	Material	Cable filling compound					
Armor	Material	Laminated aluminum tape					
Sheath	Thickness (mm)	Nominal:1.8					
Cable Diameter(mm) Approx.		10.2	10.6	11.4	13.6	16.4	19.5
Cable Weight(kg/km) Approx.		90	110	130	165	240	290
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush Resistance Short/Long Term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

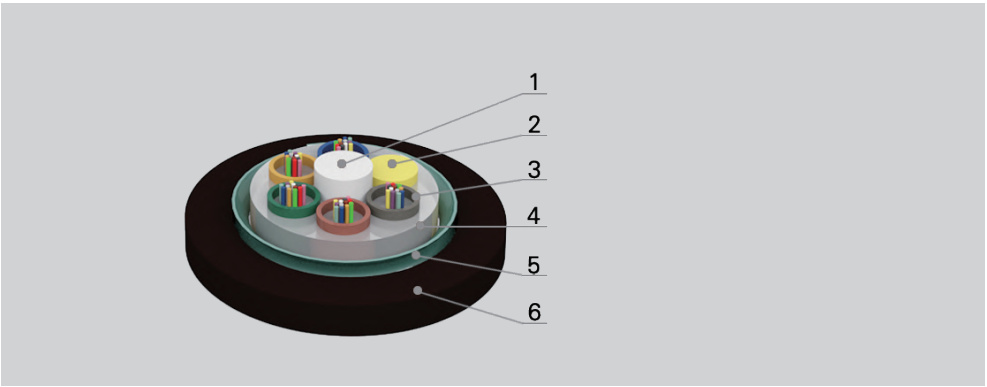
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Non-metallic Strength Member Light-armored Cable (GYFTS)

Cable Description



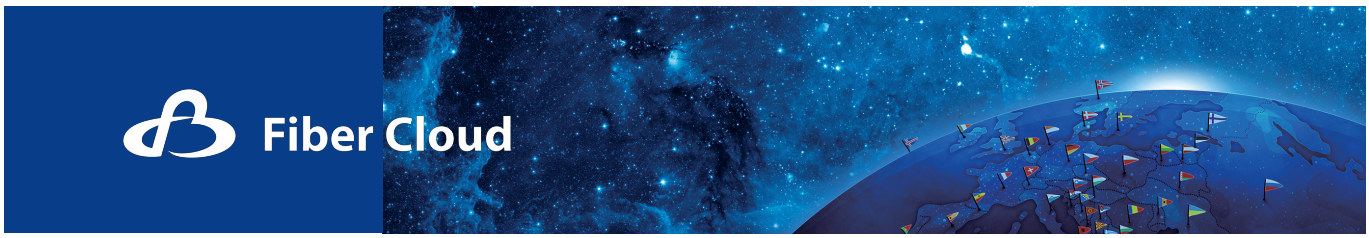
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with a suitable water tightness compound.
4. Longitudinal Water Blocking Material: cable filling compound.
5. Armor: corrugated steel tape.
6. Outer Sheath: black polyethylene.

Features and Applications

- Good crush resistance
- Duct installation or aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Cable filling compound					
Armor	Material	Corrugated steel tape					
Sheath	Thickness (mm)	Nominal:1.8					
Cable Diameter(mm) Approx.		10.4	11.1	12.1	14.0	17.2	19.5
Cable Weight(kg/km) Approx.		100	120	150	190	270	340
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush Resistance Short/Long Term (N/100mm)		2000/600					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

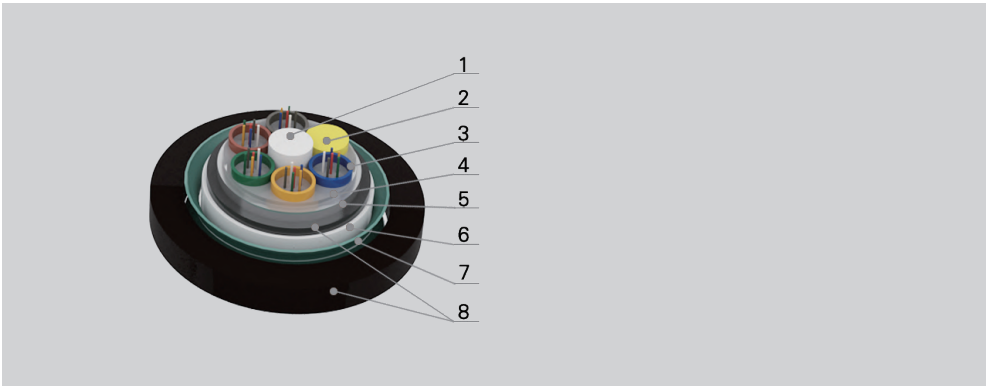
Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Stranded Loose Tube Non-metallic Strength Member Armored Cable (GYFTA53)

Cable Description



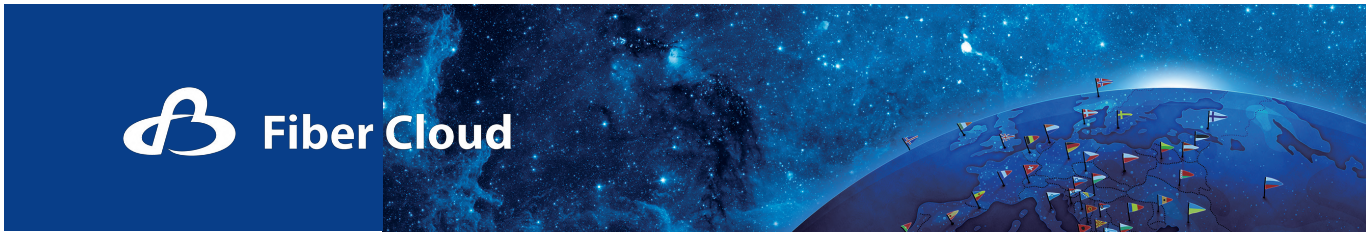
1. Central Strength Member (CSM): glass fibre reinforced plastic rod (FRP), coated with polyethylene when needed.
2. Filler Elements: thermoplastic rods.
3. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
4. Longitudinal Water Blocking Material: cable filling compound.
5. Moisture-proof: laminated aluminum tape.
6. Longitudinal Water Blocking Material: cable filling compound.
7. Armor: corrugated steel tape
8. Inner and Outer Sheath: black polyethylene.

Features and Applications

- Good crush resistance
- Direct buried installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm	-	-	⩽ 3.0 dB/km	⩽ 3.0 dB/km
	@1300nm	-	-	⩽ 1.0 dB/km	⩽ 1.0 dB/km
	@1310nm	⩽ 0.36 dB/km	⩽ 0.40 dB/km	-	-
	@1550nm	⩽ 0.22 dB/km	⩽ 0.23 dB/km	-	-
Bandwidth	@850nm	-	-	⩾ 500 MHz • km	⩾ 200 MHz • km
	@1300nm	-	-	⩾ 1000 MHz • km	⩾ 600 MHz • km
Polarization mode dispersion	Individual fibre	⩽ 0.20 ps/√km	⩽ 0.20 ps/√km	-	-
	Design link value (M=20, Q=0.01%)	⩽ 0.1 ps/√km	⩽ 0.1 ps/√km	-	-



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central Strength Member	Material	FRP					
	Diameter (mm)	2.25	2.6	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Cable filling compound					
Moisture-proof	Material	Laminated aluminum tape					
Inner sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Corrugated steel tape					
Outer sheath	Thickness (mm)	Nominal:2.0					
Cable Diameter(mm) Approx.		14.2	15.0	15.0	16.8	20.0	22.4
Cable Weight(kg/km) Approx.		210	230	230	280	350	440
Operating Temperature Range(°C)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush Resistance Short/Long Term (N/100mm)		3000/1000					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ⩽ 0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ⩽ 0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=25*D	Additional attenuation: ⩽ 0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40°C~+70°C	Attenuation change: ⩽ 0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

Standard wooden drum with protection
Standard reel length: 2/3 km/reel, other length is also available.



Semi-dry Self-supporting Figure 8 Cable (GYFC8Y)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

2.Filler Elements:thermoplastic rods.

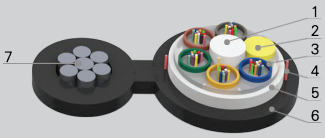
3.Loose Tube:thermoplastic material,containing optical fibres and filled with gel.

4.Ripcord

5.Longitudinal Water Blocking Material:water blocking tape.

6.Outer Sheath:black polyethylene.

7.Messenger:stranded steel wires.

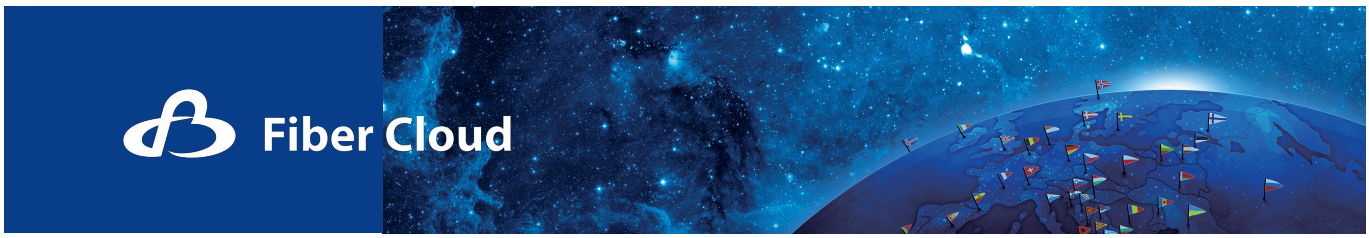


Features and Applications

- High tensile strength
- Self-supporting aerial installation
- Semi-dry core design, easy for installation and splice

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Messenger wire	Structure and diameter (mm)	7*1.6					
Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm) Approx.		10.0*21.0	10.8*21.8	11.6*22.6	13.2*24.2	16.4*27.4	19.2*30.2
Cable weight(kg/km) Approx.		200	245	265	290	340	425
Operating temperature range(℃)		-40~+70					
Tensile strength short/long term(N)		8000/2700					
Crush resistance short/long term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.



Self-supporting Figure 8 Cable (GYFTC8A)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

2.Filler Elements:thermoplastic rods.

3.Ripcord

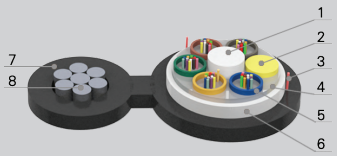
4.Longitudinal Water Blocking Material:cable filling compound.

5.Loose Tube:thermoplastic material,containing optical fibres and filled with gel.

6.Moisture-proof:laminated aluminum tape.

7.Outer Sheath:black polyethylene.

8.Messenger:stranded steel wires.

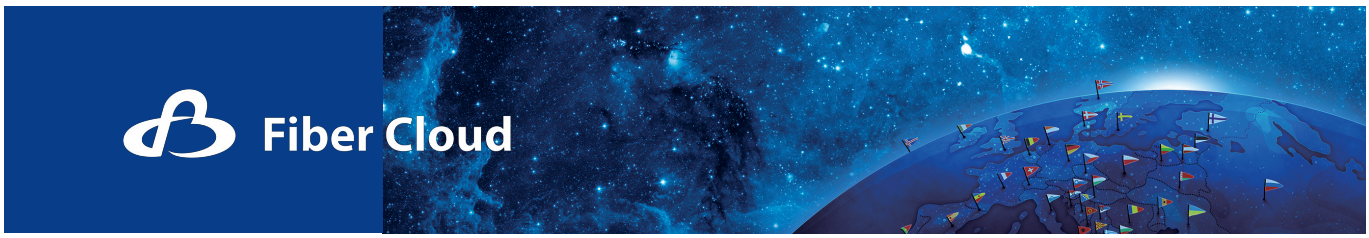


Features and Applications

- High tensile strength
- Self-supporting aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Cable filling compound					
Moisture-proof	Material	Laminated aluminum tape					
Messenger wire	Structure and diameter (mm)	7*1.6					
Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm) Approx.		10.2*21.2	10.6*21.6	11.4*22.4	13.6*24.6	16.4*27.4	19.5*30.5
Cable weight(kg/km) Approx.		220	250	270	310	360	450
Operating temperature range(℃)		-40~+70					
Tensile strength short/long term(N)		8000/2700					
Crush resistance short/long term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.



Light Armored Self-supporting Figure 8 Cable (GYFC8S)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

2.Filler Elements:thermoplastic rods.

3.Armor:corrugated steel tape.

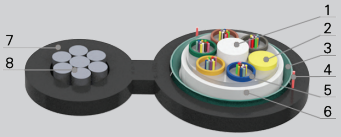
4.Ripcord

5.Loose Tube:thermoplastic material,containing optical fibres and filled with gel.

6.Longitudinal Water Blocking Material:water blocking tape.

7.Outer Sheath:black polyethylene.

8.Messenger:stranded steel wires.

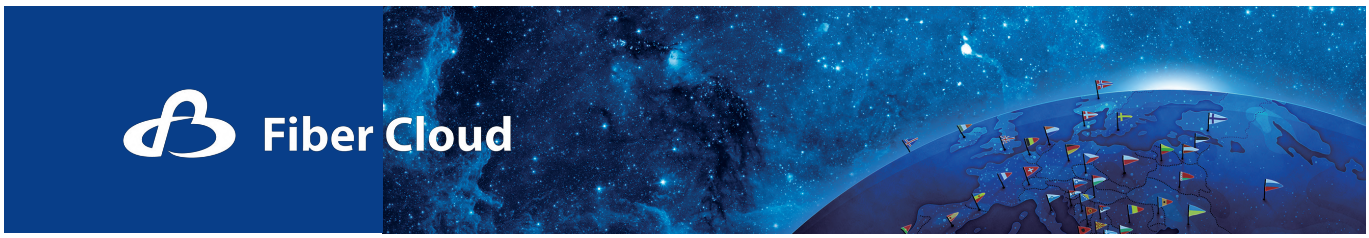


Features and Applications

- High tensile resistance
- High crush resistance
- Self-supporting aerial installation
- Semi-dry core design, easy for installation and splice

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	PE layer diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Armor	Material	Corrugated steel tape					
Messenger wire	Structure and diameter (mm)	7*1.6					
Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm) Approx.		11.1*22.1	12.1*23.1	12.6*23.6	14.6*25.6	17.6*28.6	20.6*31.6
Cable weight(kg/km) Approx.		280	310	330	370	440	495
Operating temperature range(℃)		-40~+70					
Tensile strength short/long term(N)		8000/2700					
Crush resistance short/long term (N/100mm)		2000/600					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.



Armored Self-supporting Figure 8 Cable (GYFC8Y53)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

2.Filler Elements:thermoplastic rods.

3.Loose Tube:thermoplastic material,containing optical fibres and filled with gel.

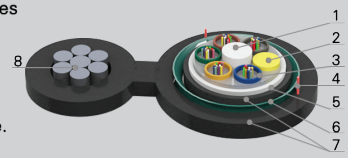
4.Ripcord

5.Longitudinal Water Blocking Material:water blocking tape.

6.Armor:corrugated steel tape.

7.Inner and Outer Sheath:black polyethylene.

8.Messenger:stranded steel wires.

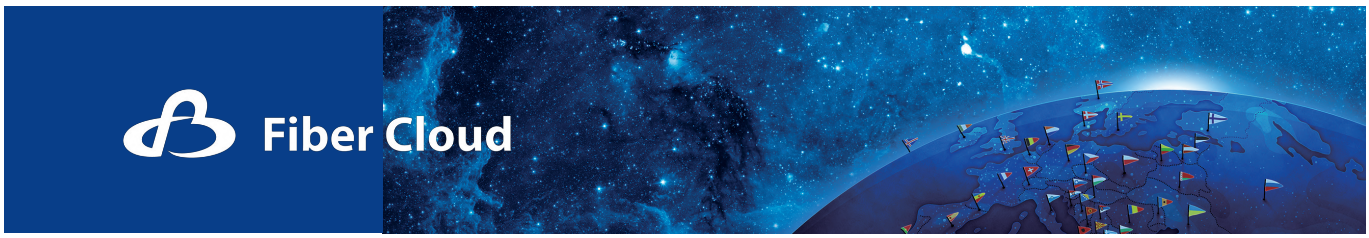


Features and Applications

- High tensile strength and crush resistance
- Semi-dry core design, easy for installation and splice
- Self-supporting aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value				
	Fibre Count	24	48	72	96	144
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12
	Outer diameter (mm)	1.9	2.4			
Central strength member	Material	FRP				
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4
Water blocking material	Material	Water blocking tape&yarn				
Inner sheath	Thickness (mm)	Nominal:1.0				
Armor	Material	Corrugated steel tape				
Messenger wire	Structure and diameter (mm)	7*1.6				
Outer sheath	Thickness (mm)	Nominal:2.0				
Cable diameter(mm) Approx.		13.4*24.4	15.0*26.0	15.4*26.4	16.8*27.8	20.2*31.2
Cable weight(kg/km) Approx.		270	320	350	390	420
Operating temperature range(℃)		-40~+70				
Tensile strength short/long term(N)		8000/2700				
Crush resistance short/long term (N/100mm)		3000/900				

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.



All Dielectric Self-supporting Single Sheath Aerial Cable (ADSS-Single Sheath)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

2.Filler Elements:thermoplastic rods.

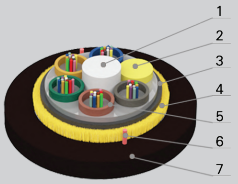
3.Longitudinal Water Blocking Material:water blocking tape.

4.Peripheral Strength Member:aramid yarn.

5.Loose Tube:thermoplastic material,containing optical fibres and filled with gel.

6.Ripcord

7.Outer Sheath:black polyethylene.

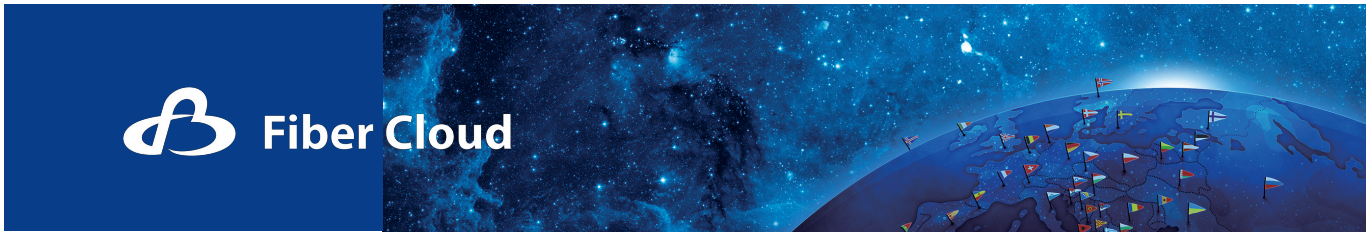


Features and Applications

- High tensile strength
- All dielectric structure and semi-dry core design
- Small diameter and light weight
- Self-supporting aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value					
	Fibre Count	24	48	72	96	144	288
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	2.1	2.5				
Central strength member	Material	FRP					
	Diameter (mm)	2.25	2.0	2.6	2.8	3.7	2.6
	PE layer diameter (mm)	-	-	-	4.2	7.4	4.8
Water blocking material	Material	Water blocking tape					
Peripheral strength member	Material	Aramid yarn					
Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm) Approx.		11.0	11.2	12.2	13.9	17.1	20.2
Cable weight(kg/km) Approx.		95	115	130	160	235	290
Operating temperature range(℃)		-40~+70					
Max. span (m)		250	250	240	200	180	140
Climate condition		Max. wind speed: 25m/s , No ice					
Crush resistance short/long term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Specifications in the table are based on the condition that there is no height difference between two suspension points and the installation sag is 1%.
* Other structure and fibre count are also available according to customer requirements.
* Cable diameter and weight in this table is typical value, which will fluctuate according to different designs
* The span needs to be recalculated due to other climate conditions according to the installation area.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 20Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.





All Dielectric Self-supporting Semi-dry Double Sheath Aerial Cable (ADSS-Double Sheath Semi-dry)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

2.Filler Elements:thermoplastic rods.

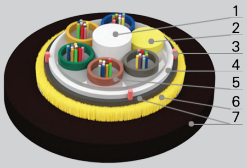
3.Ripcord

4.Longitudinal Water Blocking Material:water blocking tape.

5.Loose Tube:thermoplastic material,containing optical fibres and filled with gel.

6.Peripheral Strength Member:aramid yarn.

7.Inner and Outer Sheath:black polyethylene.

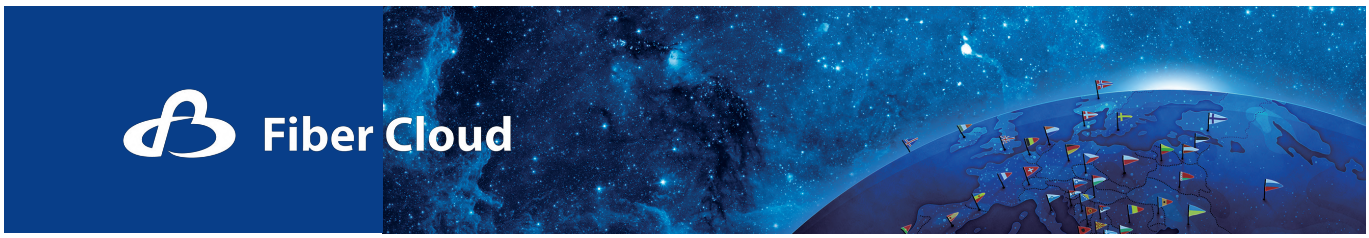


Features and Applications

- High tensile strength
- All dielectric structure and semi-dry core design
- Self-supporting aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value				
	Fibre Count	24	48	72	96	144
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12
	Outer diameter (mm)	2.1	2.5			
Central strength member	Material	FRP				
	Diameter (mm)	2.25	2.0	2.6	2.8	3.7
	Coated CSM diameter (mm)	-	-	-	4.2	7.4
Water blocking material	Material	Water blocking tape				
Inner sheath	Thickness (mm)	Nominal:0.8				
Peripheral strength member	Material	Aramid yarn				
Outer sheath	Thickness (mm)	Nominal:1.8				
Cable diameter(mm) Approx.		13.2	13.8	14.6	15.9	18.6
Cable weight(kg/km) Approx.		130	140	155	190	270
Operating temperature range(℃)		-40~+70				
Max. span (m)		750	670	650	600	500
Climate condition		Max. wind speed: 25m/s , No ice				
Crush resistance short/long term (N/100mm)		2200/700				

* The colour arrangement of fibre and tube is specified in the color identification table.
* Specifications in the table are based on the condition that there is no height difference between two suspension points and the installation sag is 1%.
* Other structure and fibre count are also available according to customer requirements.
* Cable diameter and weight in this table is typical value, which will fluctuate according to different designs
* The span needs to be recalculated due to other climate conditions according to the installation area.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.

Fiber Cloud





All Dielectric Self-supporting Double Sheath Aerial Cable (ADSS-Double Sheath)

Cable Description

1.Central Strength Member(CSM):glass fibre reinforced plastic rod (FRP),coated with polyethylene when needed.

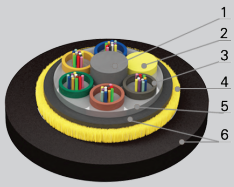
2.Filler Elements:thermoplastic rods.

3.Loose Tube:thermoplastic material,containing optical fibres and filled with a suitable water tightness compound.

4.Peripheral Strength Member:aramid yarn.

5.Longitudinal Water Tightness:cable filling compound.

6.Inner and Outer Sheath:black polyethylene.

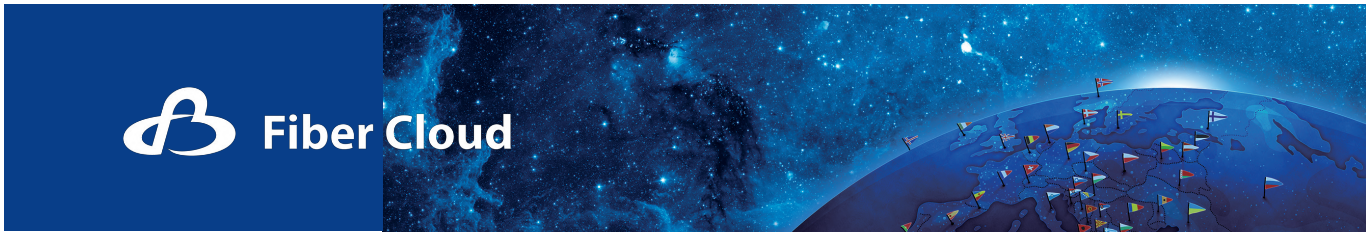


Features and Applications

- High tensile strength
- All dielectric structure
- Suitable for long span self-supporting aerial installation

Optical Characteristics

		G.652.D	G.655	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value				
	Fibre Count	24	48	72	96	144
Loose tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12
	Outer diameter (mm)	2.1	2.5			
Central strength member	Material	FRP				
	Diameter (mm)	2.25	2.0	2.6	2.8	3.7
	Coated CSM diameter (mm)	-	-	-	4.2	7.4
Water blocking material	Material	Cable filling compound				
Inner sheath	Thickness (mm)	Nominal:0.8				
Peripheral strength member	Material	Aramid yarn				
Outer sheath	Thickness (mm)	Nominal:1.8				
Cable diameter(mm) Approx.		12.6	13.2	14.0	15.3	18.0
Cable weight(kg/km) Approx.		125	135	150	180	260
Operating temperature range(℃)		-40~+70				
Max. span (m)		750	670	650	600	500
Climate condition		Max. wind speed: 25m/s , No ice				
Crush resistance short/long term (N/100mm)		2200/700				

* The colour arrangement of fibre and tube is specified in the color identification table.
* Specifications in the table are based on the condition that there is no height difference between two suspension points and the installation sag is 1%.
* Other structure and fibre count are also available according to customer requirements.
* Cable diameter and weight in this table is typical value, which will fluctuate according to different designs
* The span needs to be recalculated due to other climate conditions according to the installation area.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	According to different span and climate condition	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Water Penetration	IEC 60794-1-2-F5	Sample length=3m, Water height=1m, 24 hours	No water leakage
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 2/3 km/reel, other length is also available.



Stainless Steel Flexible Hose Armored Cable(GJFJKH)

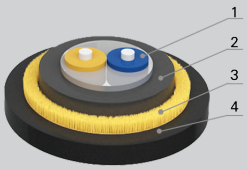
Cable Description

1.Tight Buffer Fibre

2.Armor Hose:made of spiral steel tape.

3.Strength Member:aramid yarn

4.Outer Sheath:fire retardant material.

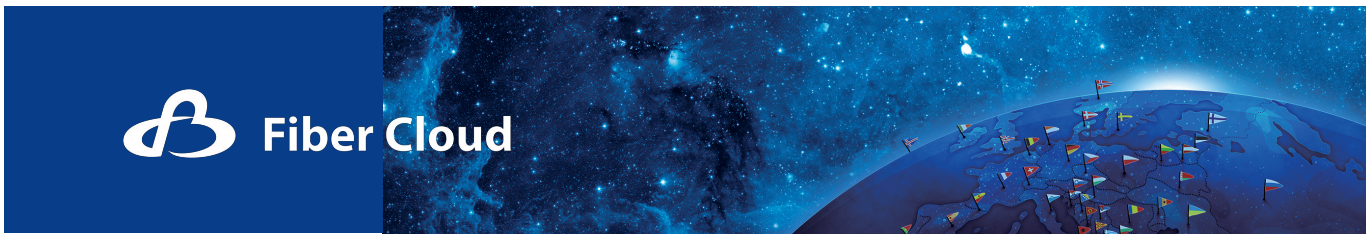


Features and Applications

- Good mechanical and temperature performances
- Excellent crush resistance and flexibility
- Fire retardant sheath (LSH/PVC/TPEE) ensures fire resistance performance
- Suitable for indoor using

Optical Characteristics

		G.652.D	G.657	50/125μm	62.5/125
Attenuation	@850nm			≤3.5 dB/km	≤3.5 dB/km
	@1300nm			≤1.5 dB/km	≤1.5 dB/km
	@1310nm	≤0.40 dB/km	≤0.36 dB/km		
	@1550nm	≤0.30 dB/km	≤0.25 dB/km		



Technical Data

Item	Contents	Value		
	Fibre Count	1	2	2
Tight buffer fibre	material	LSZH/PVC/TPEE		
	diameter (mm)	0.90±0.05mm		0.60±0.05mm
Armored tube	material	200CU or 304	200CU or 304	200CU or 304
	diameter (mm)	1.0(I.D)/1.6(O.D) ±0.1	2.2(I.D)/2.8(O.D) ±0.1	1.6(I.D)/2.2(O.D) ±0.1
Strength member	material	Aramid yarn		
Sheath	Thickness (mm)	0.45±0.05	0.80±0.10	0.45±0.05
Cable diameter(mm) Approx.		3.0(±0.1)	4.8(±0.1)	3.0(±0.1)
Cable weight(kg/km) Approx.		18	38	24
Operating temperature range(℃)		-20~+70		
Tensile Strength Short/ Long Term(N)		200/100	400/200	200/100
Crush resistance short/long term (N/100mm)		5000/3000		

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-20℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

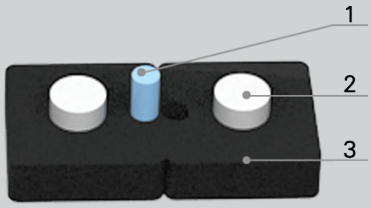
Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 0.5/1km/reel, other length is also available



Standard Bow-Type Drop Cable(GJXH/GJXFH)

Cable Description



1.Optical Fibre:G.657A2 fibre

2.Strength Member:kevelar fibre reinforced plastic rod(KFRP) or steel wire.

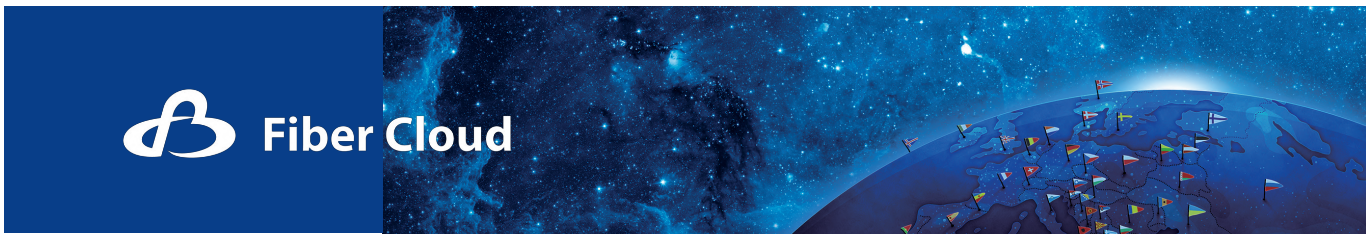
3.Outer Sheath:black or white LSZH

Features and Applications

- Simple structure and light weight
- Good strippability for easy splice,installtion and maintenance
- LSZH sheath ensures the flame retardant performance

Optical Characteristics

		G.652.D	G.657.A2
Attenuation	@1310nm	≤0.40 dB/km	≤0.36 dB/km
	@1550nm	≤0.30 dB/km	≤0.25 dB/km



Technical Data

Item	Contents	Value		
	Fibre Count	1	2	4
Strength member	material	Steel wire /KFRP		
	diameter (mm)	0.45/0.52	0.45/0.52	0.45/0.52
Sheath	Thickness (mm)	≥0.40		
Cable diameter(mm) Approx.		2.0*3.0(±0.1)	2.0*3.0(±0.1)	2.0*3.0(±0.1)
Cable weight(kg/km) Approx.		7/10	7.5/10.5	8.5/11.5
Operating temperature range(℃)		-40~+70		
Tensile Strength Short/ Long Term(N)		200/100 for steel wire strength member 80/40 for KFRP wire strength member		
Crush resistance short/long term (N/100mm)		1000/500		

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=30H	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

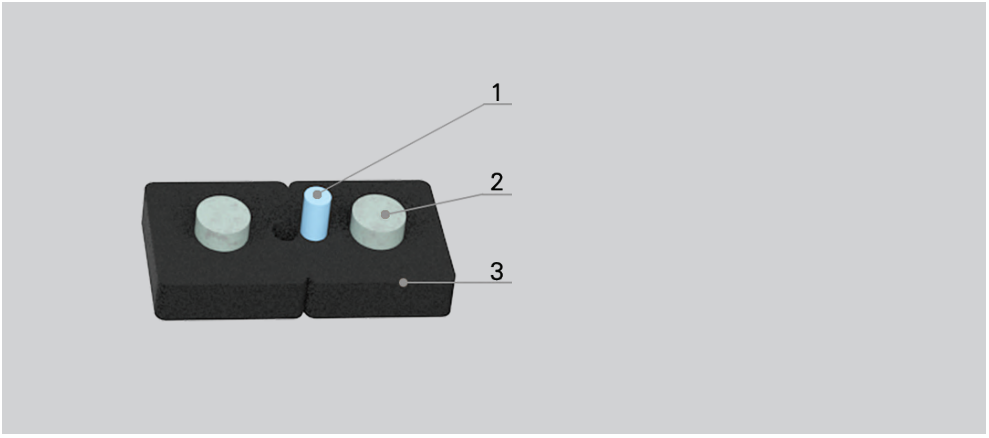
Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.



Small Size Bow-Type Drop Cable(GJXH)

Cable Description



1.Optical Fibre:G.657A2 fibre

2.Strength Member:steel wire

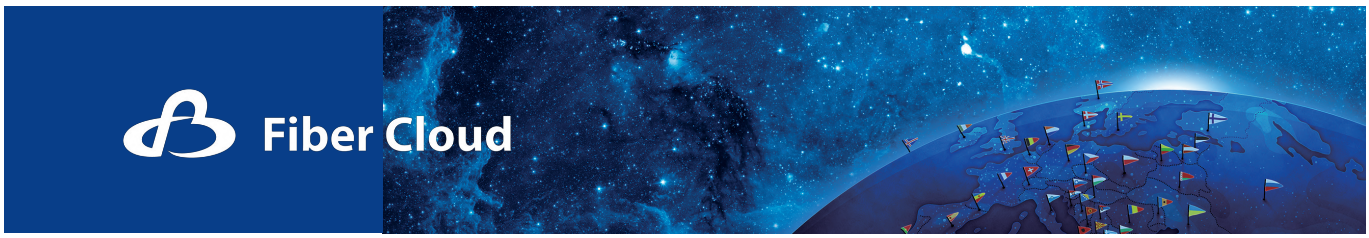
3.Outer Sheath:black or white LSZH

Features and Applications

- Simple structure and light weight
- Good strippability for easy splice,installation and maintence
- LSZH sheath ensures the flame retardant performance

Optical Characteristics

		G.652.D	G.657
Attenuation	@1310nm	≤0.40 dB/km	≤0.36 dB/km
	@1550nm	≤0.30 dB/km	≤0.25 dB/km



Technical Data

Item	Contents	Value	
	Fibre Count	1	2
Strength member	material	Steel wire	
	diameter (mm)	0.40	0.40
Sheath	Thickness (mm)	≥0.40	
Cable diameter(mm) Approx.		2.0*1.6(±0.1)	2.0*1.6(±0.1)
Cable weight(kg/km) Approx.		7	7.5
Operating temperature range(℃)		-40~+70	
Tensile Strength Short/ Long Term(N)		200/100	
Crush resistance short/long term (N/100mm)		1000/500	

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=30H	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

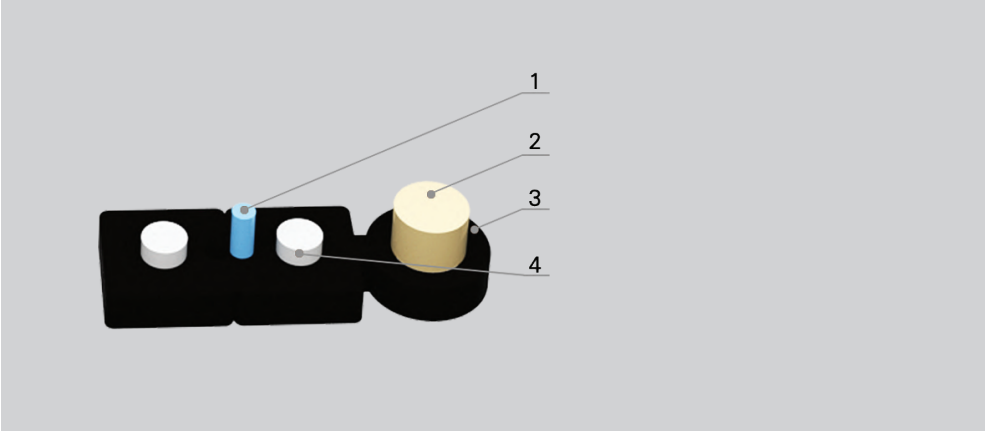
Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.

Standard Self-supporting Bow-Type Drop Cable(GJYXCH/GJYXFCH)



Cable Description



1.Optical Fibre:G.657A2 fibre

2.Self–supporting Strength Member: steel wire

3.Outer Sheath:black or white LSZH

4.Strength Member:keveler fibre reinforced plastic rod (KFRP)

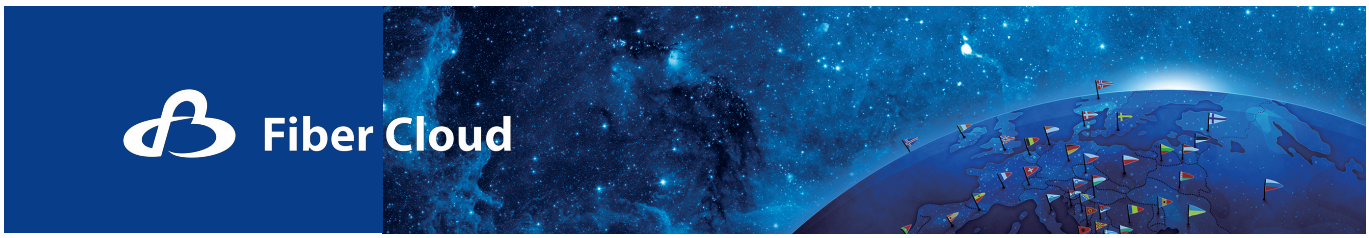
or steel wire

Features and Applications

- Simple structure and light weight
- Good strippability for easy splice,installation and maintence
- LSZH sheath ensures the flame retardant performance
- Suitable for FTTH self-supporting installation

Optical Characteristics

		G.652.D	G.657
Attenuation	@1310nm	≤0.40 dB/km	≤0.36 dB/km
	@1550nm	≤0.30 dB/km	≤0.25 dB/km



Technical Data

Item	Contents	Value		
	Fibre Count	1	2	4
Self-supporting Strength member	material	Steel wire		
	diameter (mm)	1.1mm		
Strength member	material	KFRP/Steel wire		
	diameter (mm)	0.52/0.45	0.52/0.45	0.52/0.45
Sheath	Thickness (mm)	≥0.40		
Cable diameter(mm) Approx.		2.0*5.2(±0.1)	2.0*5.2(±0.1)	2.0*5.2(±0.1)
Cable weight(kg/km) Approx.		18.5/20	19/20.5	20/21.5
Operating temperature range(℃)		-40~+70		
Tensile Strength Short/ Long Term(N)		600/300		
Crush resistance short/long term (N/100mm)		1000/500		

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=30H	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

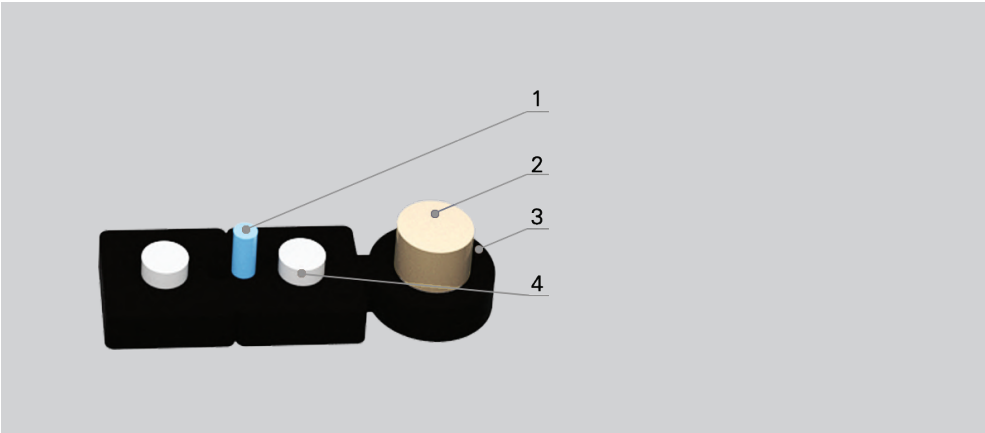
Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.



Small Size Self-supporting Bow-Type Drop Cable(GJYXFCH)

Cable Description



1.Optical Fibre:G657A2 fibre.

2.Self–supporting Strength Member:stranded steel wire.

3.Outer Sheath:black or white LSZH

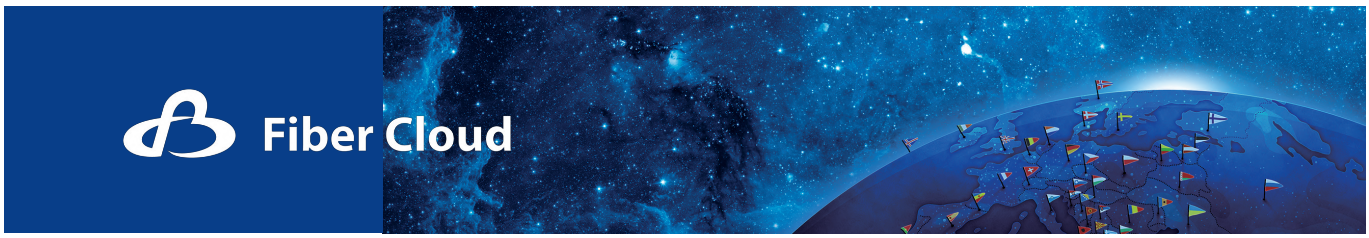
4.Strength Member:keveler fibre reinforced plastic rod (KFRP) or stel wire.

Features and Applications

- Simple structure and light weight
- Good strippability for easy splice,installation and maintence
- LSZH sheath ensures the flame retardant performance
- Suitable for FTTH self-supporting installation

Optical Characteristics

		G.652.D	G.657
Attenuation	@1310nm	≤0.40 dB/km	≤0.36 dB/km
	@1550nm	≤0.30 dB/km	≤0.25 dB/km



Technical Data

Item	Contents	Value	
	Fibre Count	1	2
Self-supporting Strength member	material	Stranded steel wire	
	diameter (mm)	7*0.33mm	
Strength member	material	KFRP/Steel wire	
	diameter (mm)	0.45	0.45
Sheath	Thickness (mm)	≥0.40	
Cable diameter(mm) Approx.		1.7*3.8(±0.1)	1.7*3.8(±0.1)
Cable weight(kg/km) Approx.		15.5	16
Operating temperature range(℃)		-40~+70	
Tensile Strength Short/ Long Term(N)		400/200	
Crush resistance short/long term (N/100mm)		1000/500	

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=30H	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.



Indoor Micro-breakout Cable For Vertical Wiring(GJPFH)

Cable Description

1.Cemtral Strength Member:glass fibre reinforced plastic rod(FRP)

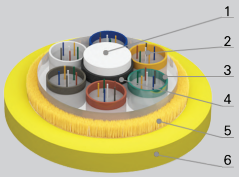
2.Optical Fibre

3.Micro-tube:low smoke halogen free material

4.Coat of CSM:PE or LSZH

5.Additional Strength Member:aramid yarn

6.Outer Sheath:yelow LSZH or black LSZH

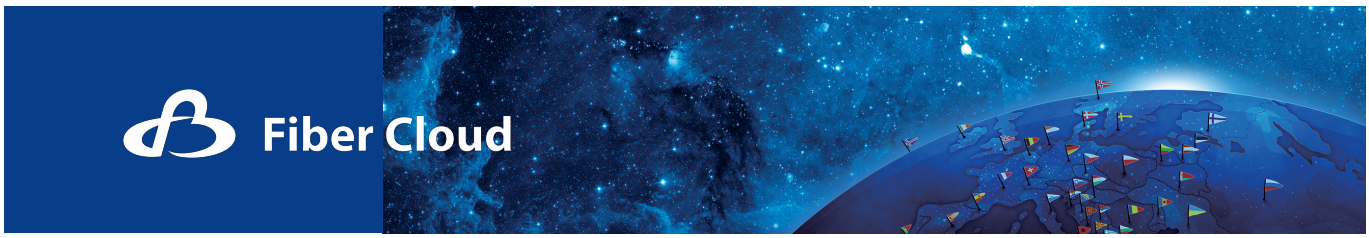


Features and Applications

- Totally dry design
- Good flame retardant performance
- Non-metallic structure
- Small size and light weight
- Easy for branch and installation
- Suitable for indoor wiring in FTTx and data center

Optical Characteristics

		G.652.D	G.657.A2	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.5 dB/km	≤3.5 dB/km
	@1300nm			≤1.5 dB/km	≤1.5 dB/km
	@1310nm	≤0.36 dB/km	≤0.36 dB/km		
	@1550nm	≤0.22 dB/km	≤0.22 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, Q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value					
	Fibre Count	12	24	24	48	48	48
Micro-tube	No. of tubes*fibers per tube	6*2	12*2	6*4	12*4	8*6	4*12
	Outer diameter (mm)	0.95		1.15		1.35	1.55
Central strength member	Material	FRP					
	Diameter (mm)	1.0	1.2	1.2	2.0	1.2	1.6
	Coated CSM diameter (mm)	-	2.8	-	3.1	1.9	-
Sheath	Thickness (mm)	Nominal:0.8					
Cable diameter(mm) Approx.		5.5	7.1	5.8	7.6	6.5	7.0
Cable weight(kg/km) Approx.		25	40	28	48	35	38
Operating temperature range(℃)		-20~+70					
Tensile Strength Short/ Long Term(N)		660/200					
Crush resistance short/long term (N/100mm)		1000/300					

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 5Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Temperature Cycling	IEC 60794-1-2-F1	-20℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.



Indoor Breakout Cable For Vertical Wiring(GJPFXJH)

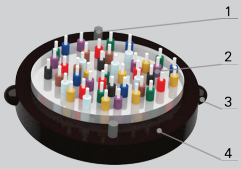
Cable Description

1.Strength Member:glass fibre reinforced plasticrod (FRP).

2.Tight Buffer Fibre

3.Outer Sheath Markers:continues bulge from the outer sheath.

4.Outer Sheath:white or black LSZH

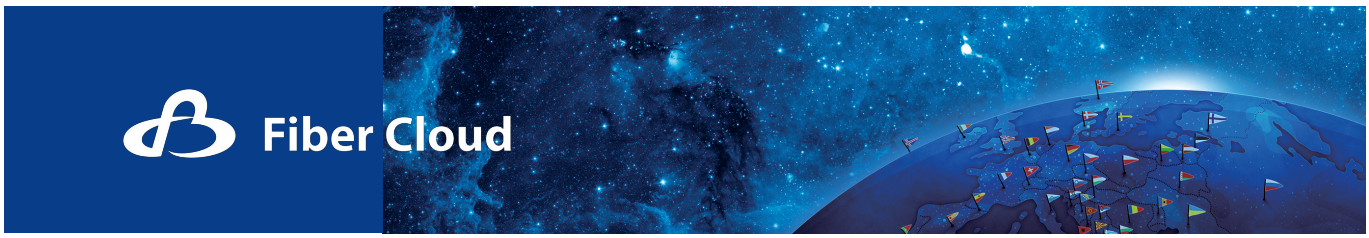


Features and Applications

- Good flame retardant performance
- Non-metallic structure
- Small size and light weight
- Easy for branch and installation
- Suitable for indoor wiring in FTTx and data center

Optical Characteristics

		G.652.D	G.657.A2	50/125μm	62.5/125μm
Attenuation	@850nm			≤3.5 dB/km	≤3.5 dB/km
	@1300nm			≤1.5 dB/km	≤1.5 dB/km
	@1310nm	≤0.4 dB/km	≤0.36 dB/km		
	@1550nm	≤0.3 dB/km	≤0.22 dB/km		
Bandwidth	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥1000 MHz·km	≥600 MHz·km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km		
	Design link value (M=20, Q=0.01%)	≤0.1 ps/√km	≤0.1 ps/√km		



Technical Data

Item	Contents	Value				
	Fibre Count	6	8	12	16	24
Tight buffer fiber	Material	LSZH				
	Outer diameter (mm)	0.85±0.05				
Central strength member	Material	FRP				
	Diameter (mm)	1.0			1.2	
Sheath	Thickness at FRP(mm)	≥2.0			≥2.2	
	Thickness at markers(mm)	≥1.5				
Cable diameter(mm) Approx.		8.5±0.5			10.5±0.5	
Cable weight(kg/km) Approx.		75			125	
Operating temperature range(℃)		-20~+70				
Tensile Strength Short/ Long Term(N)		500/200				
Crush resistance short/long term (N/100mm)		1000/300				

* The colour arrangement of fibre and tube is specified in the color identification table.
* Other structure and fibre count are also available according to customer requirements.

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.1dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.1dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 5Nm, one in 3 different places	Additional attenuation: ≤0.1dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.1dB after test
Temperature Cycling	IEC 60794-1-2-F1	-20℃~+70℃	Attenuation change: ≤0.05dB/km after test

* All optical measurements at 1550nm.

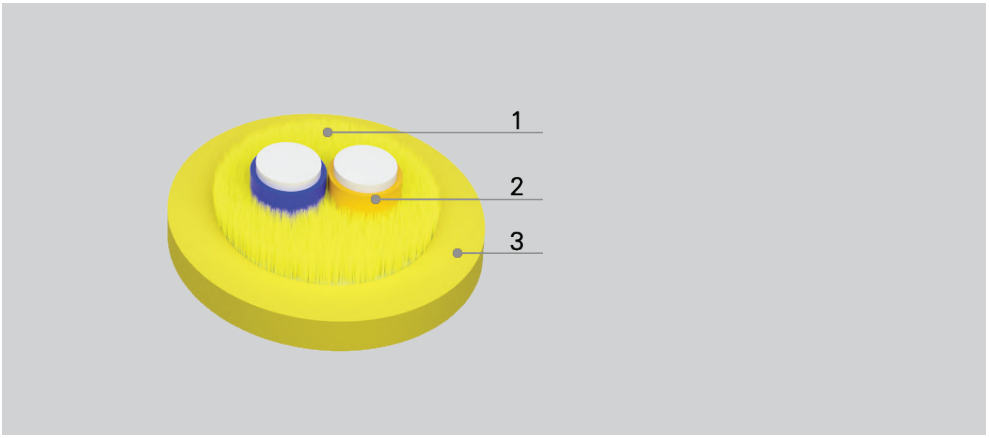
Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.



Round Drop Cable(GYFJU)

Cable Description



1.Strength Member:aramid yarn

2.Tight Buffer Fibre

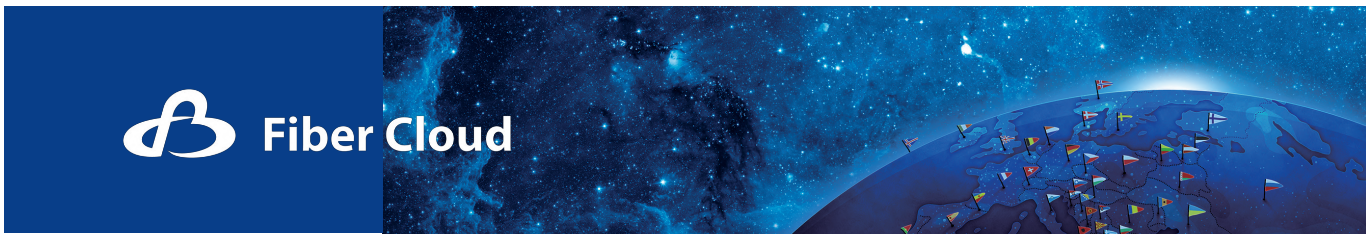
3.Outer Sheath:TPU/LSZH

Features and Applications

- Aramid yarn strength member ensure tensile strength
- Good crush resistance and flexibility
- Small diameter, light weight and easy installation
- Bending insensitive fibre provides excellent transmission characteristics
- Excellent fire retardant performance

Optical Characteristics

		G.657.A2	G.657.B3
Attenuation	@1310nm	≤0.40 dB/km	≤0.36 dB/km
	@1550nm	≤0.30 dB/km	≤0.25 dB/km



Technical Data

Item	Contents	Value	
	Fibre Count	1	2
Tight buffered fibre	material	LSZH	
	diameter (mm)	0.85±0.05mm	
Strength member	material	Aramid yarn	
Sheath	Thickness (mm)	0.75±0.1	0.8±0.1
Cable diameter(mm) Approx.		3.0(±0.1)	3.5(±0.1)
Cable weight(kg/km) Approx.		10.2	12.6
Operating temperature range(℃)		-40~+70	
Tensile Strength Short/ Long Term(N)		800/400	
Crush resistance short/long term (N/100mm)		1000/500	

Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

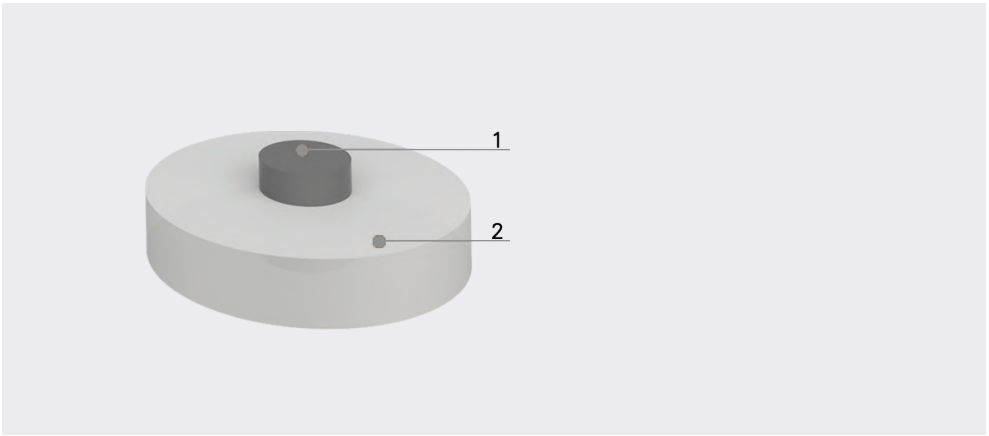
Packing and Reel Length

- Standard wooden drum with protection
- Standard reel length: 1/2 km/reel, other length is also available.



Fishing-line Cable(GJJA)

Cable Description



1.Optical Fibre:G.657B3

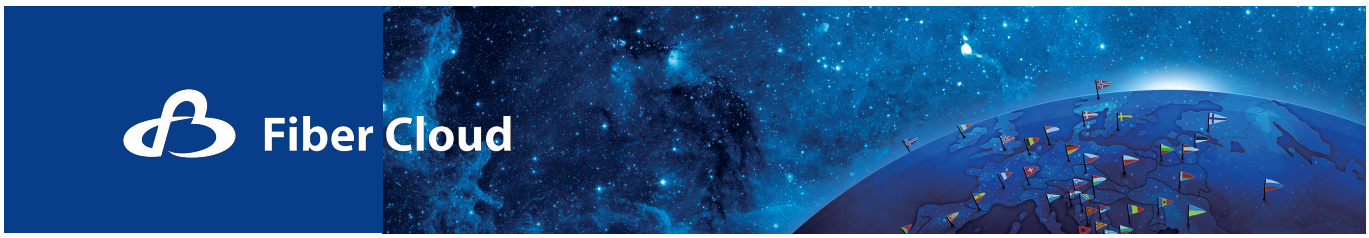
2.Sheath:nylon

Features and Applications

- G.657.B3 fibre provides excellent bending performance
- Transparent,suitable for indoor use
- Hard & resilient buffer material ensures easy installation

Optical Characteristics

		G.657.B3
Attenuation	@1310nm	≤0.36 dB/km
	@1550nm	≤0.25 dB/km



Technical Data

Item	Contents	Value
	Fibre Count	1
Tight buffer fiber	material	PA12
	diameter (mm)	0.90±0.05mm
Cable weight(kg/km) Approx.		0.7
Operating temperature range(℃)		-40~+70
Tensile Strength Short/ Long Term(N)		6/3
Crush resistance short/long term (N/100mm)		500/100

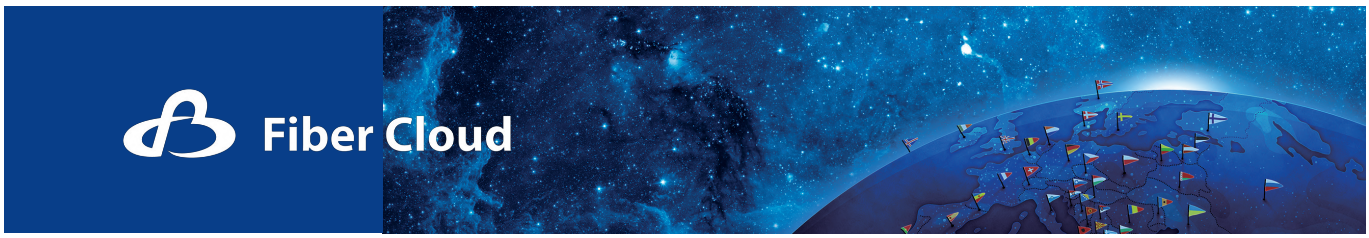
Main Mechanical and Environmental Performances

Items	Test Standard	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated Bending	IEC 60794-1-2-E6	R=20*D	Additional attenuation: ≤0.4dB after test
Temperature Cycling	IEC 60794-1-2-F1	-40℃~+70℃	Attenuation change: ≤0.4dB/km after test

* All optical measurements at 1550nm.

Packing and Reel Length

- Standard reel length: 2/4km/reel



Colour Arrangement of Fibres in Loose Tube

Fibercloud fibre colour identification used in loose tube is Standard Fibre Colour Sequence, which complise with Standard YD/T 901-2009.

Standard Fibre Colour Sequence

Fibre NO.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
Fibre NO.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	Blue*	Orange*	Green*	Brown*	Grey*	White*	Red*	Natural	Yellow*	Violet*	Pink*	Aqua*

Note:
1.* represents fibre with one black ring,NO.20 black colour is replaced by natural colour.
2.Other fibre colour arrangements are also available according to the requirement of customer.

Colour Arrangement of Loose Tubes

Fibercloud loose tube colour identification used in cable is Full Colour Sequence,which complies with Standard YD/T 901-2009

Full Colour Sequence

Tube NO.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Note:
1.Other loose tube colour arrangements are also available according to the requirement of customer.