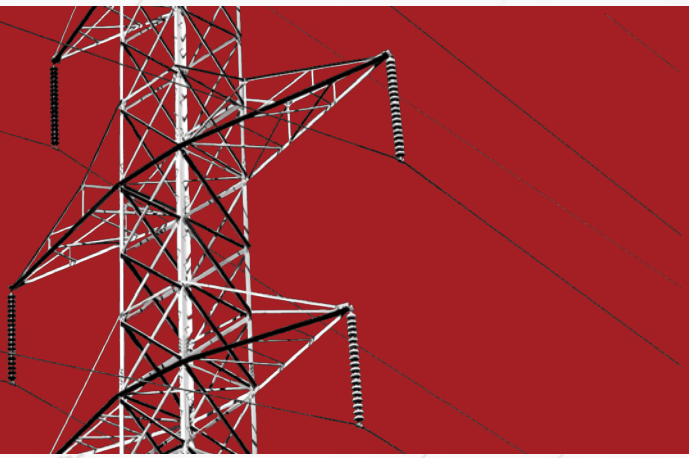
ZION

GENERAL OUTDOOR

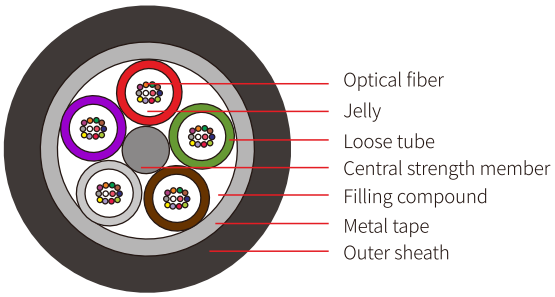
OPTICAL FIBER CABLE



Contents

GYTA

Duct and Non-Self Supporting Aerial Cable



Technical data

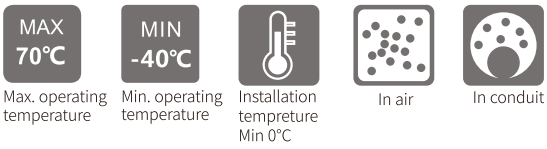
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: Aluminum tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture aluminum tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

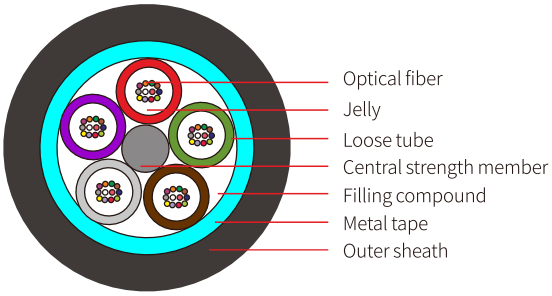
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTA	30	1500	600	1000	300	20D	10D	8.9	75
GYTA	36	1500	600	1000	300	20D	10D	9.3	88
GYTA	60	1500	600	1000	300	20D	10D	9.9	93
GYTA	72	1500	600	1000	300	20D	10D	10.5	116
GYTA	96	1500	600	1000	300	20D	10D	12.1	145
GYTA	120	1500	600	1000	300	20D	10D	13.5	172
GYTA	144	1500	600	1000	300	20D	10D	15.0	204

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYTS

Duct and Non-Self Supporting Aerial Cable



Technical data

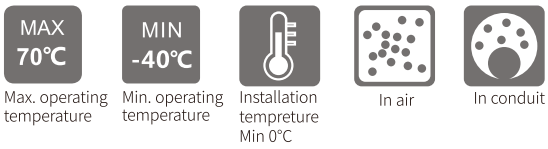
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

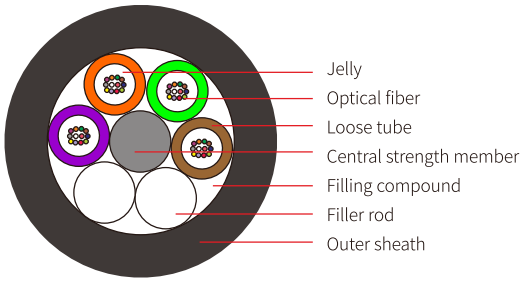
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTS	30	1500	600	1000	300	20D	10D	9.1	92
GYTS	36	1500	600	1000	300	20D	10D	9.4	105
GYTS	60	1500	600	1000	300	20D	10D	10.0	112
GYTS	72	1500	600	1000	300	20D	10D	10.6	136
GYTS	96	1500	600	1000	300	20D	10D	12.1	165
GYTS	120	1500	600	1000	300	20D	10D	13.5	195
GYTS	144	1500	600	1000	300	20D	10D	15.0	231

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYFTY

Duct and Non-Self Supporting Aerial Cable



Technical data

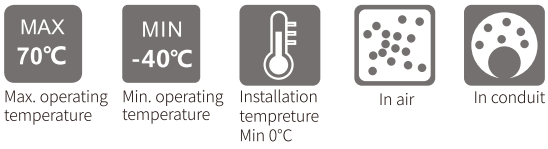
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: FRP
Sheath Options: Single PE Sheath
Armor: None
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Perfect lightning protection effect with all-dielectric materials

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

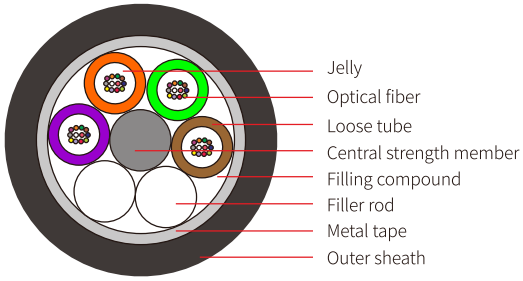
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYFTY	36	1500	600	1000	300	20D	10D	9.7	79
GYFTY	48	1500	600	1000	300	20D	10D	10.9	105
GYFTY	72	1500	600	1000	300	20D	10D	11.1	103
GYFTY	96	1500	600	1000	300	20D	10D	12.7	136
GYFTY	120	1500	600	1000	300	20D	10D	14.2	167
GYFTY	144	1500	600	1000	300	20D	10D	15.9	204
GYFTY	288	1500	600	1000	300	20D	10D	18.3	270

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYFTA

Duct and Non-Self Supporting Aerial Cable



Technical data

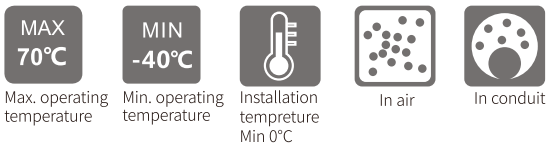
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: FRP
Sheath Options: Single PE Sheath
Armor: Aluminum tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture aluminum tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

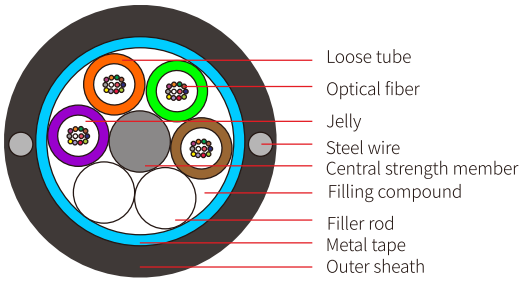
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYFTA	36	1500	600	1000	300	20D	10D	10.2	87
GYFTA	48	1500	600	1000	300	20D	10D	11.4	111
GYFTA	72	1500	600	1000	300	20D	10D	11.6	112
GYFTA	96	1500	600	1000	300	20D	10D	13.4	152
GYFTA	120	1500	600	1000	300	20D	10D	14.9	185
GYFTA	144	1500	600	1000	300	20D	10D	16.6	224
GYFTA	288	1500	600	1000	300	20D	10D	19.0	288

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYFTW

Duct and Non-Self Supporting Aerial Cable



Technical data

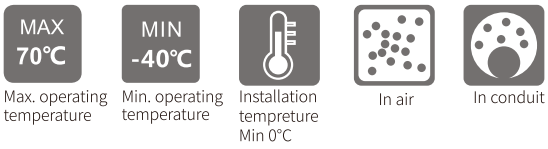
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: FRP and parallel Steel wire
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

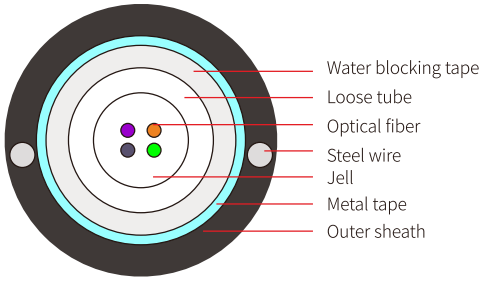
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYFTW	36	2700	1000	2200	1000	20D	10D	12.0	146
GYFTW	72	2700	1000	2200	1000	20D	10D	13.4	179
GYFTW	96	2700	1000	2200	1000	20D	10D	15.0	219
GYFTW	120	2700	1000	2200	1000	20D	10D	16.6	262
GYFTW	144	2700	1000	2200	1000	20D	10D	18.2	312

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYXTW

Duct and Non-Self Supporting Aerial Cable



Technical data

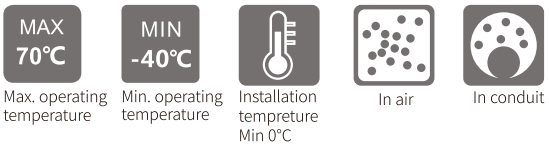
Fiber: Up to 24, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: Central tube
Strength Member: Parallel Steel wire
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moistre corrugated steel tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

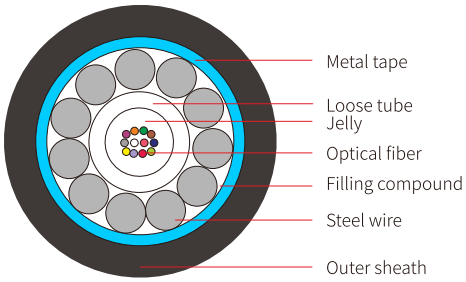
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYXTW	6	1500	600	1000	300	20D	10D	8.3	74
GYXTW	12	1500	600	1000	300	20D	10D	8.5	75
GYXTW	18	1500	600	1000	300	20D	10D	8.9	83
GYXTW	24	1500	600	1000	300	20D	10D	9.3	87
GYXTW	6	3000	1000	1000	300	20D	10D	9.2	98
GYXTW	12	3000	1000	1000	300	20D	10D	9.4	99
GYXTW	18	3000	1000	1000	300	20D	10D	9.8	109

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYXTS

Duct and Non-Self Supporting Aerial Cable



Technical data

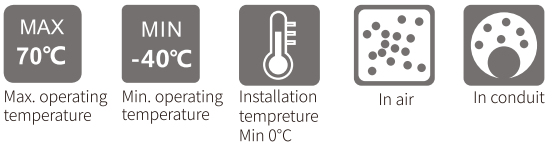
Fiber: Up to 24, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: Central tube
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

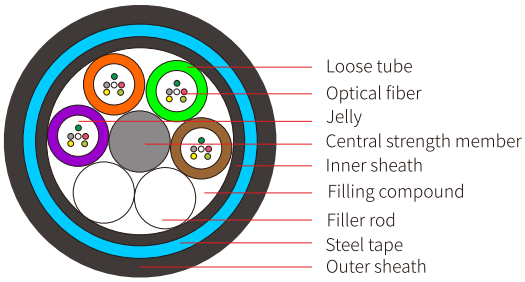
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYXTS	6	1500	600	1000	300	20D	10D	9.0	110
GYXTS	12	1500	600	1000	300	20D	10D	9.2	122
GYXTS	6	3000	1000	1000	300	20D	10D	9.4	129
GYXTS	12	3000	1000	1000	300	20D	10D	9.6	142

Notes: 1. D denotes the diameter of the cable; 2. The above parameters are typical value; 3. The cable spec can be designed according to customer's requirement.

GYTY53

Direct Buried Cable



Technical data

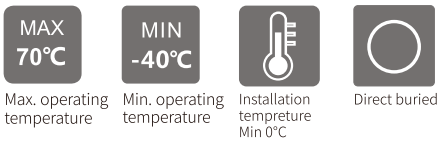
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Double PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Double sheath with singe armor
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Direct buried



Max. operating temperature | Min. operating temperature | Installation tempreture Min 0°C | Direct buried

Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

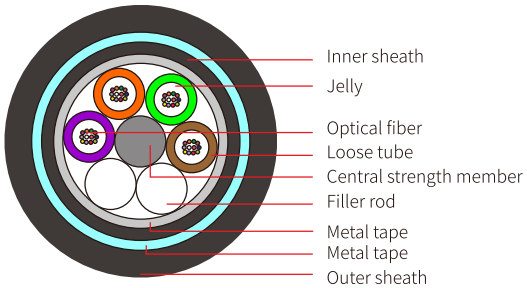
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTY53	36	3000	1000	3000	1000	25D	12.5D	11.6	161
GYTY53	60	3000	1000	3000	1000	25D	12.5D	12.2	171
GYTY53	72	3000	1000	3000	1000	25D	12.5D	12.8	198
GYTY53	96	3000	1000	3000	1000	25D	12.5D	14.1	234
GYTY53	120	3000	1000	3000	1000	25D	12.5D	15.5	269
GYTY53	144	3000	1000	3000	1000	25D	12.5D	17.0	311

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYTA53

Direct Buried Cable



Technical data

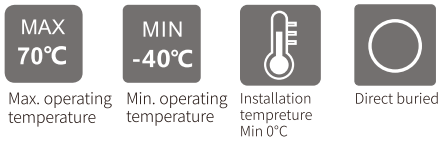
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Double PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Double sheath with double armor
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture aluminum tape and steel tape

Applications

Direct buried



Max. operating temperature | Min. operating temperature | Installation tempreture Min 0°C | Direct buried

Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

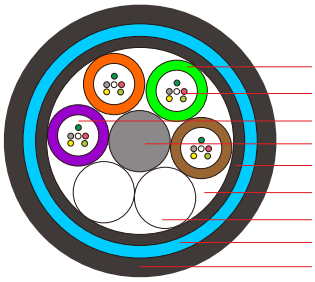
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTA53	36	3000	1000	3000	1000	25D	12.5D	12.4	161
GYTA53	60	3000	1000	3000	1000	25D	12.5D	13.0	171
GYTA53	72	3000	1000	3000	1000	25D	12.5D	13.6	198
GYTA53	96	3000	1000	3000	1000	25D	12.5D	15.0	234
GYTA53	120	3000	1000	3000	1000	25D	12.5D	16.4	269
GYTA53	144	3000	1000	3000	1000	25D	12.5D	17.9	311

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYFTY53

Direct Buried Cable



Technical data

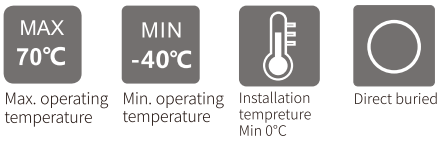
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: FRP
Sheath Options: Double PE Sheath
Armor: Steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Double sheath with single armor
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Direct buried



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

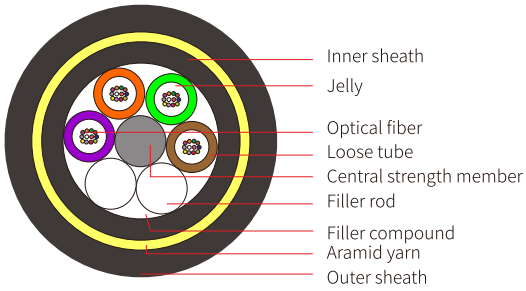
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYFTY53	48	3000	1000	3000	1000	25D	12.5D	13.6	174
GYFTY53	96	3000	1000	3000	1000	25D	12.5D	15.4	217
GYFTY53	120	3000	1000	3000	1000	25D	12.5D	16.9	256
GYFTY53	144	3000	1000	3000	1000	25D	12.5D	18.6	303
GYFTY53	288	3000	1000	3000	1000	25D	12.5D	21.0	377

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

ADSS

All Dielectric Self-supporting Aerial Optic Fiber Cable



Technical data

Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: FRP
Sheath Options: Double PE Sheath
Armor: Aramid yarn
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Gel-filled loose tube protect the fiber well
- All dielectric material good for application in thunder area
- Armored with aramid yarn

Applications

All dielectric self-supporting aerial

Max. operating temperature | Min. operating temperature | Installation tempreture Min 0°C | In air

Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

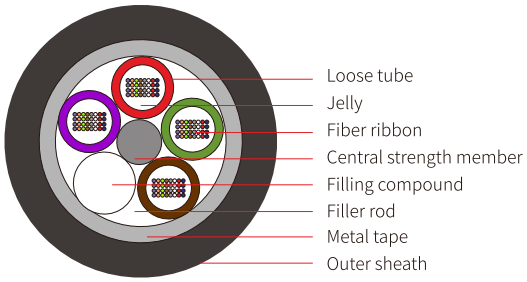
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		RTS	MAT	Short term	Long term	Dynamic	Static		
ADSS	24	40000	16000	2200	1000	25D	12.5D	13.4	145
ADSS	36	40000	16000	2200	1000	25D	12.5D	13.9	155
ADSS	72	40000	16000	2200	1000	25D	12.5D	14.8	182
ADSS	96	40000	16000	2200	1000	25D	12.5D	16.4	220
ADSS	120	40000	16000	2200	1000	25D	12.5D	18.0	262
ADSS	144	40000	16000	2200	1000	25D	12.5D	18.9	290

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYDTA

Ribbon Optic Fiber Cable



Technical data

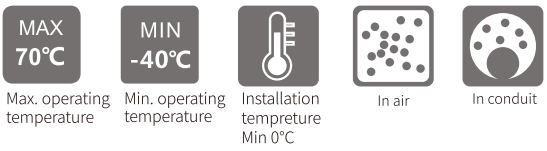
Fiber: Up to 864, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: Aluminum tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Hight fiber density
- Easy to install
- Armored with anti-moisture aluminum tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

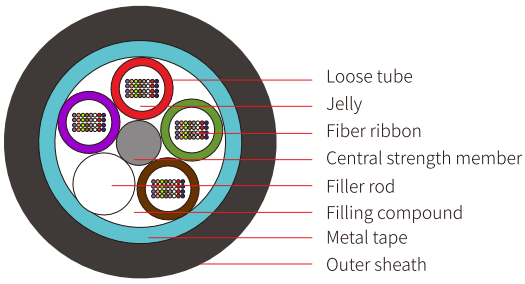
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYDTA	144	1500	600	1000	300	20D	10D	16.8	246
GYDTA	192	1500	600	1000	300	20D	10D	17.4	273
GYDTA	216	1500	600	1000	300	20D	10D	19.6	328
GYDTA	288	1500	600	1000	300	20D	10D	18.5	313
GYDTA	432	1500	600	1000	300	20D	10D	21.7	418
GYDTA	576	1500	600	1000	300	20D	10D	22.3	439

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYDTS

Ribbon Optic Fiber Cable



Technical data

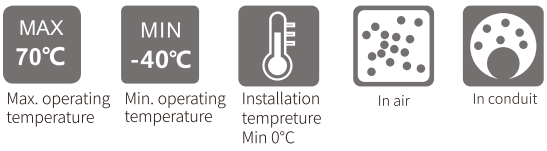
Fiber: Up to 864, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Hight fiber density
- Easy to install
- Armored with anti-moisture steel tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

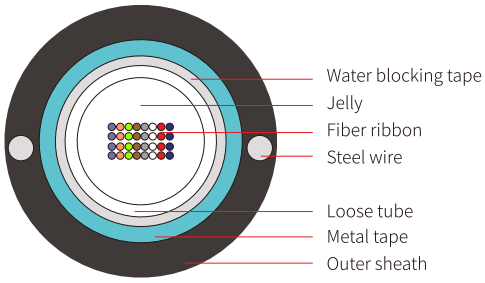
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYDTS	144	1500	600	1000	300	20D	10D	16.8	246
GYDTS	192	1500	600	1000	300	20D	10D	17.4	273
GYDTS	216	1500	600	1000	300	20D	10D	19.6	328
GYDTS	288	1500	600	1000	300	20D	10D	18.5	313
GYDTS	432	1500	600	1000	300	20D	10D	21.7	418
GYDTS	576	1500	600	1000	300	20D	10D	22.3	439

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYDXTW

Ribbon Optic Fiber Cable



Technical data

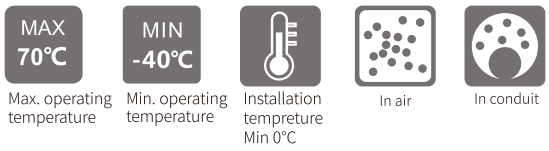
Fiber: Up to 432, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: Central tube
Strength Member: Parallel steel wire
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Hight fiber density
- Easy to install
- Armored with anti-moisture steel tape

Applications

Duct and non-self supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

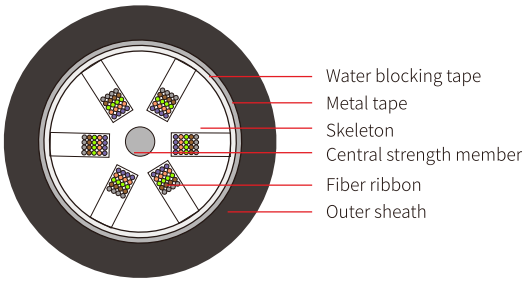
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYDXTW	48	1500	600	1000	300	20D	10D	13.4	172
GYDXTW	72	1500	600	1000	300	20D	10D	14.2	191
GYDXTW	96	1500	600	1000	300	20D	10D	14.6	201
GYDXTW	144	1500	600	1000	300	20D	10D	16.0	239
GYDXTW	216	1500	600	1000	300	20D	10D	18.0	298
GYDXTW	288	1500	600	1000	300	20D	10D	18.8	320
GYDXTW	432	1500	600	1000	300	20D	10D	20.3	372

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYDGA

Ribbon Optic Fiber Cable



Technical data

Fiber: Up to 288, Dry material
Fiber Types: Single-mode and Multimode
Cable Constructions: Slotted core
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: Aluminum tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Hight fiber density
- Easy to install with dry structure
- Armored with anti-moisture aluminum tape

Applications

Duct and non-self supporting aerial

Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

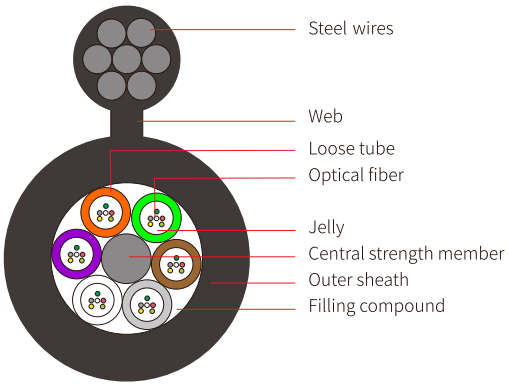
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYDGA	72	3000	1000	3000	1000	25D	12.5D	17.3	280
GYDGA	96	3000	1000	3000	1000	25D	12.5D	17.3	281
GYDGA	120	3000	1000	3000	1000	25D	12.5D	18.5	307
GYDGA	144	3000	1000	3000	1000	25D	12.5D	19.1	325
GYDGA	216	3000	1000	3000	1000	25D	12.5D	21.7	398
GYDGA	288	3000	1000	3000	1000	25D	12.5D	22.4	426

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYTC8Y

FIG 8 Self-supporting Aerial Optic Fiber Cable



Technical data

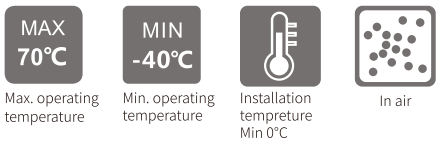
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Stranded steel wires
Sheath Options: Single PE Sheath
Armor: None
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well

Applications

Self-supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

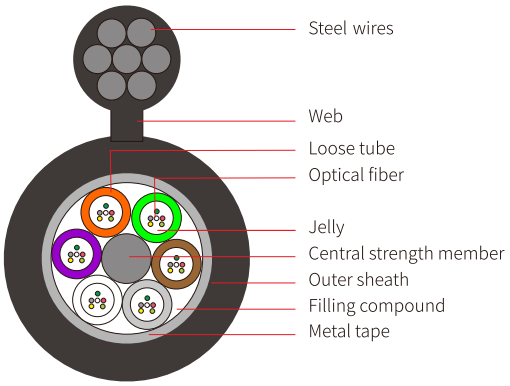
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTC8Y	30	3000	1000	1000	300	20D	10D	8.6×16.4	133
GYTC8Y	60	3000	1000	1000	300	20D	10D	9.6×17.4	155
GYTC8Y	30	4500	1500	1000	300	20D	10D	8.6×17.0	155
GYTC8Y	60	4500	1500	1000	300	20D	10D	9.6×18.0	177
GYTC8Y	30	7000	2000	1000	300	20D	10D	8.6×18.2	213
GYTC8Y	60	7000	2000	1000	300	20D	10D	9.6×19.2	234

Notes: 1. D denotes the diameter of the cable; 2. The above parameters are typical value; 3. The cable spec can be designed according to customer's requirement.

GYTC8A

FIG 8 Self-supporting Aerial Optic Fiber Cable



Technical data

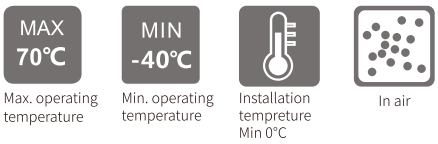
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Stranded steel wires
Sheath Options: Single PE Sheath
Armor: Aluminum tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture aluminum tape

Applications

Self-supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

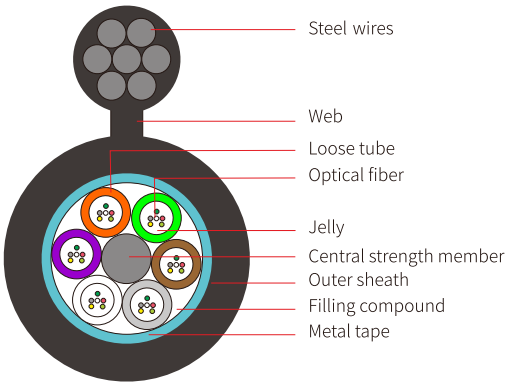
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTC8A	30	3000	1000	1000	300	20D	10D	9.1×16.9	142
GYTC8A	60	3000	1000	1000	300	20D	10D	10.1×17.9	165
GYTC8A	30	4500	1500	1000	300	20D	10D	9.1×17.5	164
GYTC8A	60	4500	1500	1000	300	20D	10D	10.1×18.5	187
GYTC8A	30	7000	2000	1000	300	20D	10D	9.1×18.7	222
GYTC8A	60	7000	2000	1000	300	20D	10D	10.1×19.7	245

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYTC8S

FIG 8 Self-supporting Aerial Optic Fiber Cable



Technical data

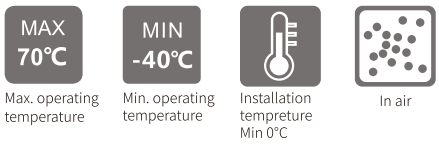
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Stranded steel wires
Sheath Options: Single PE Sheath
Armor: Steel tape
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Self-supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

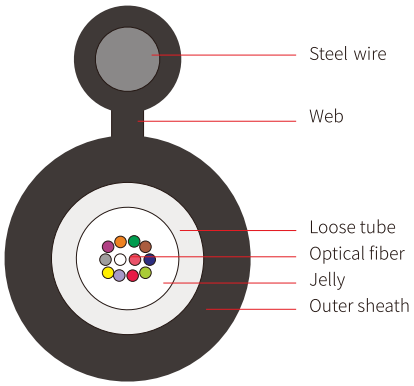
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTC8S	30	3000	1000	1000	300	20D	10D	9.1×16.9	156
GYTC8S	60	3000	1000	1000	300	20D	10D	10.1×17.9	182
GYTC8S	30	4500	1500	1000	300	20D	10D	9.1×17.5	178
GYTC8S	60	4500	1500	1000	300	20D	10D	10.1×18.5	204
GYTC8S	30	7000	2000	1000	300	20D	10D	9.1×18.7	236
GYTC8S	60	7000	2000	1000	300	20D	10D	10.1×19.7	261

Notes: 1. D denotes the diameter of the cable; 2. The above parameters are typical value; 3. The cable spec can be designed according to customer's requirement.

GYXTC8Y

FIG 8 Self-supporting Aerial Optic Fiber Cable



Technical data

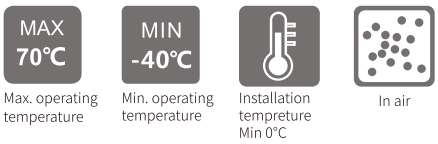
Fiber: Up to 24, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: Central tube
Strength Member: Steel wire
Sheath Options: Single PE Sheath
Armor: None
Operating Temperature: -40°C - 70°C
Compliances: In accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well

Applications

Self-supporting aerial



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

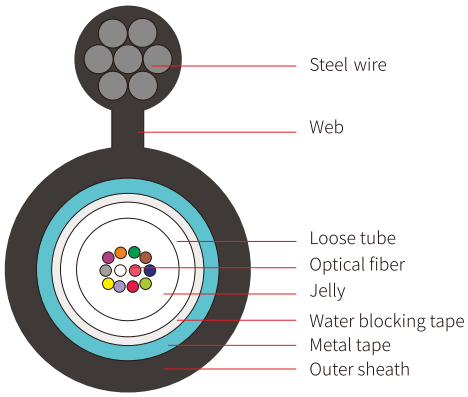
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYXTC8Y	12	1000	300	1000	300	20D	10D	5.1×10.2	47
GYXTC8Y	24	1000	300	1000	300	20D	10D	5.7×10.8	54
GYXTC8Y	12	3000	1000	1000	300	20D	10D	6.0×12.9	88
GYXTC8Y	24	3000	1000	1000	300	20D	10D	6.6×13.5	95

Notes: 1. D denotes the diameter of the cable; 2. The above parameters are typical value; 3. The cable spec can be designed according to customer's requirement.

GYXTC8S

FIG 8 Self-supporting Aerial Optic Fiber Cable



Technical data

Fiber: Up to 24, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: Central tube
Strength Member: Stranded steel wires
Sheath Options: Single PE Sheath
Armor: Corrugated steel tape
Operating Temperature: -40°C - 70°C
Compliances: In accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good water resistance performance
- Easy to install
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture corrugated steel tape

Applications

Self-supporting aerial

Max. operating temperature | Min. operating temperature | Installation tempreture Min 0°C | In air

Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (850nm/1300nm)	50μm (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

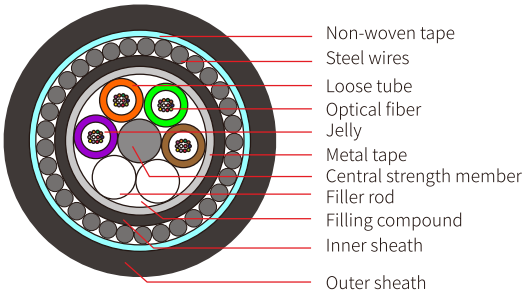
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYXTC8S	12	3000	1000	1000	300	20D	10D	7.6×14.5	117
GYXTC8S	24	3000	1000	1000	300	20D	10D	8.5×15.4	128
GYXTC8S	12	4500	1500	1000	300	20D	10D	7.6×15.1	137
GYXTC8S	24	4500	1500	1000	300	20D	10D	8.5×16.0	148

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYTA33

Shallow Water Optical Fiber Cable



Technical data

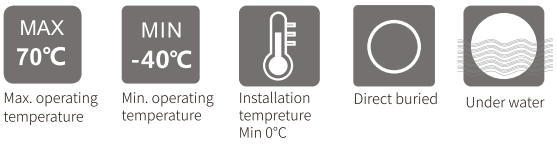
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Double PE Sheath
Armor: Aluminum tape +steel wires
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Good performance for crush and tensile
- Double sheath with double armor
- Armored with steel wires and anti-moisture aluminum t

Applications

Shallow water and direct buried



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (OM1) (850nm/1300nm)	50μm (OM2) (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

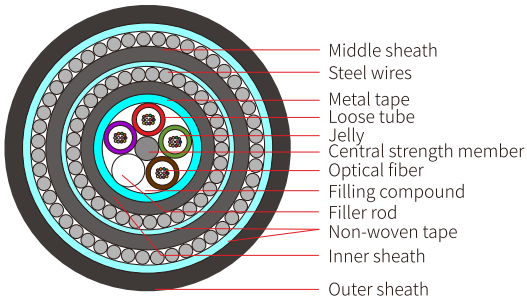
Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTA33	30	10000	4000	5000	3000	25D	12.5D	14.6	349
GYTA33	36	10000	4000	5000	3000	25D	12.5D	14.9	372
GYTA33	60	10000	4000	5000	3000	25D	12.5D	15.5	379
GYTA33	72	10000	4000	5000	3000	25D	12.5D	16.1	433
GYTA33	96	10000	4000	5000	3000	25D	12.5D	17.7	508
GYTA33	120	10000	4000	5000	3000	25D	12.5D	18.9	544
GYTA33	144	10000	4000	5000	3000	25D	12.5D	20.4	642

Notes：1. D denotes the diameter of the cable； 2. The above parameters are typical value； 3. The cable spec can be designed according to customer's requirement.

GYTS333

Shallow Water Optical Fiber Cable



Technical data

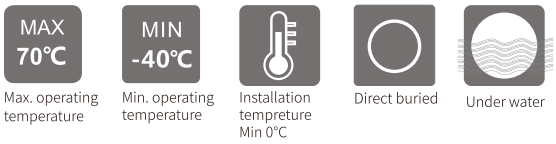
Fiber: Up to 288, Gel-filled
Fiber Types: Single-mode and Multimode
Cable Constructions: S-Z Stranded loose tube
Strength Member: Steel wire
Sheath Options: Triple PE Sheath
Armor: Corrugated steel tape +steel wires
Operating Temperature: -40°C - 70°C
Compliances: In Accordance with IEC, ITU and EIA standards

Features

- Excellent mechanical and environmental performance
- Triple sheath with triple armor
- Gel-filled loose tube protect the fiber well
- Armored with anti-moisture steel tape
- And two layers of steel wires

Applications

Shallow water and direct buried



Fiber Transmission Performance

Cabled Optical fiber (dB/km)	62.5μm (OM1) (850nm/1300nm)	50μm (OM2) (850nm/1300nm)	G.652 (1310nm / 1550nm)	G.655 (1550nm / 1625nm)
Max attenuation	3.5/1.5	3.5/1.5	0.36/0.22	0.22/0.26
Typical value	3.0/1.0	3.0/1.0	0.35/0.21	0.21/0.24

Technical Specification

Cable type	Maximum cores	Tensile Strength		Crush Resistance		Minimum bend radius		Cable diameter	Cable weight
		Short term	Long term	Short term	Long term	Dynamic	Static		
GYTS333	36	40000	20000	6000	4000	30D	15D	23.7	1339
GYTS333	60	40000	20000	6000	4000	30D	15D	23.9	1341
GYTS333	72	40000	20000	6000	4000	30D	15D	24.5	1419
GYTS333	96	40000	20000	6000	4000	30D	15D	25.1	1420
GYTS333	120	40000	20000	6000	4000	30D	15D	26.5	1541
GYTS333	144	40000	20000	6000	4000	30D	15D	26.8	1458

Notes: 1. D denotes the diameter of the cable; 2. The above parameters are typical value; 3. The cable spec can be designed according to customer's requirement.

Named Rule

Outside Plant Optical Fiber Cables

Class	Strength member	Structural features	Sheath	Outer sheath	Fibre type
GY- Outdoor	(void)- metallic	D- Fibre ribbon	Y- PE Sheath	33- Steel wires armor+PE	B1- G652
GL- Micro rench	F- FRP	G- Slotted core	A- Aluminum Tape+PE	53- Steel tape armor+PE	B1.3- G652D
GP- Sewer	H- Aramid arns	X- Uni-tube	S- Steel tape+PE	54- Steel tape armor +PE+nylon sheath	B4- G655
	G- Glass fibre yarns	T- Compound Filled	W- Steel tape+PE +2Steel wires	63- Glass fibre yarn armor+PE	B6- G657
	A- Aramid yarns	(void) -Dry water blocking	F- Glass fibre tape+PE	333- Double steel wire armor+PE	B6a2- G657A2
		C- Self-supporting			A1a- 50/125μm
		Z- Flame-retardant			A1b- 62.5/125μm
		B- Flat shape			
		8- Figure 8			

Drop Optical Fiber Cables

Class	Strength member	Structural features	Sheath	Fibre type
GJX- Indoor Wiring	(void)- metallic	D- Fibre ribbon	H- LSZH	B6- G657
GJYX- Outdoor Drop	F- FRP	C- Self-supporting		B6a2- G657A2

Indoor Optical Fiber Cables

Class	Application Scope	Strength member	Structural features	Sheath	Fibre type
GJ- Indoor	B- Branch	F- Non Metallic	J- Tigh buffer	H- LSZH	B1.3- G652D
	P- Bundle		B- Flat shape	V- PVC	B4- G655
	D- Ribbon			U- PU	B6- G657
					B6a2- G657A2

Types of Optical Fiber Cables

S-S:Self-Supporting

U-W:Underwater

Type	FTTH					Metropolitan Area Network Access Network				Backbone Network			
	Drop	Distribution	Feeder										
			Duct	Aerial	S-S	Duct	Aerial	S-S	U-W	Buried	Aerial	S-S	U-W
ADSS-SJ		√			√			√				√	
ADSS-DJ		√			√			√				√	
GJXH	√												
GJXFH	√												
GJYXCH	√				√								
GJYXFCH	√				√								
GJXDH	√												
GJXFDH	√												
GJYXDCH	√												
GJYXFDCH	√												
GJYXFHA	√		√	√									
GJYXFHS	√		√	√									
GJYXFH53	√		√	√									
GYTA			√	√		√	√				√		
GYTS			√	√		√	√				√		
GYFS			√	√		√	√				√		
GYTY53			√			√				√			
GYFY53			√			√				√			
GYTS54			√	√		√	√				√		
GYTA53			√			√				√			
GYTS53			√			√				√			
GYTA33/333			√			√			√				√
GYTS33/333			√			√			√				√
GYTA53+33/333			√			√			√				√
GYFTY			√	√		√	√				√		
GYFTA(S)			√	√		√	√				√		
GYFTY63			√	√	√	√	√	√			√		
GYFY63			√	√	√	√	√	√			√		
GYFTA53			√			√				√			
GYXTY			√	√		√	√				√		
GYFXTY			√	√		√	√				√		
GYXTW			√	√		√	√				√		
GYDTA		√	√	√		√	√				√		
GYDXTW		√	√	√		√	√				√		
GYTC8A(S)					√							√	
GYFTC8A(S)					√							√	
GYFC8Y					√							√	
GYFC8Y53												√	
GYXTC8A(S)					√							√	

Color Arrangement Rules

Color Arrangement of Fibres and Loose Tube

Standard Fibre Color Sequence, which complies with Standard TIA/EIA-598-2014.

Fibers Color Standard Sequence （24Colors with Balck color ring）

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White(Natural)
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Note:

1.If there are less than 12 fibres in a loose tube,the color sequence is followed continuously, starting from No.1,

2.In the standard color sequence,No.6 white color can be replaced by natural color,which is called W color sequence.

3.Color arrangement can be customized.

Tubes Color Standard Sequence

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White(Natural)
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Tigh Buffer Fibers Color Standard Sequence

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White(Natural)
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Indoor Fiber Optic Cable Color Standard Sequence

Colors of Cable Sheaths comply with YD/T1258

Default color for single-mode fibre: Yellow; Default color for multimodefibre: Orange

Note: Color arrangement can be customized.

The properties of single mode optical fiber

Category	Description		G.652.D Normal	G.652.D Best	G.657.A 1	G.657.A 2	Unit/ Unidade
Transmission Characteristics	850nm (multimode optical fiber communication system) O:1260-1360(237.9-220.4THZ) E: 1360-1460 (the least commonly used, the attenuation is large) (220.4-205.3) frequency range S:1460-1530 (commonly used in PON system) (205.3-195.9) C: 1530-1565 (minimum attenuation) (195.9-191.6) L: 1565-1625 (2nd lowest attenuation) (191.6-184.5) U: 1625-1675 (mainly used for network monitoring) (184.5-179.0) Attenuation Coefficient	@1310 nm	⩽0.35	⩽0.34	⩽0.34	⩽0.34	dB/km
		@1285-1330 nm		⩽0.37	⩽0.37	⩽0.37	dB/km
		@1383 nm (after hydrogen aging	⩽0.30	⩽0.30	⩽0.31	⩽0.31	dB/km
		@1460 nm					
		@1490 nm	⩽0.24		⩽0.23	⩽0.23	dB/km
		@1550 nm	⩽0.22	⩽0.21	⩽0.2	⩽0.2	dB/km
		@1525-1575 nm		⩽0.22	⩽0.21	⩽0.21	dB/km
		@1625 nm	⩽0.25	⩽0.24	⩽0.22	⩽0.22	dB/km
	Mode Field Diameter	@1310 nm	8.6±0.4	9.0±0.4	9.0±0.3	8.6±0.4	μm
		@1550 nm	9.8±0.5	10.2±0.	10.2±0.	9.6±0.5	μm
	Cable Cut-off wavelength(λ cc)		⩽1260	⩽1260	⩽1260	⩽1260	nm
	Zero Dispersion Wavelength		1300-1324	1300-1324	1300-1324	1300-1324	nm
	Zero Dispersion Slope		⩽0.092	⩽0.092	⩽0.09	⩽0.09	ps/nm²/km
	Dispersion Coefficient	@1285-1339 nm		⩽3.4	⩽3	⩽3.4	ps/(nm·km)
		@1271-1360 nm		⩽5.3			ps/(nm·km)
		1525-1575nm					
		1530-1565nm					
		1565-1625nm					
		@1550 nm	⩽ 18	⩽ 18	⩽ 17	⩽ 18	ps/(nm·km)
		@1625 nm	⩽ 22	⩽ 22	⩽ 21	⩽ 22	ps/(nm·km)
	PMD Maximum Individual Fiber		⩽0.1	⩽0.1	⩽0.1	⩽0.1	ps√km
	PMD Link Design Value		⩽0.06	⩽0.06	⩽0.06	⩽0.06	ps/√km
	Point Discontinuity	@1310 nm, @1550 nm	⩽0.05	⩽0.05	⩽0.05	⩽0.05	dB
	EGRI Effective Group Refractive Index	@1310 nm		1.4671	1.4671	1.4676	
		@1550 nm		1.4675	1.4675	1.4683	
		@1625 nm		1.468	1.468	1.4685	
	Macro Bending Loss A1 10mm A2 7.5mm B2 7.5mm B3 5mm	10turns of 15mm radius			⩽0.25	⩽0.03	@1550 nm dB
		100turns of 25mm radius					
		1turns of 16mm radius			⩽0.25	⩽0.03	
		1turns of 10mm radius			⩽0.75	⩽0.1	
		1turns of 7.5mm radius				⩽0.2	
		1turns of 5mm radius					
		100turns of 30mm radius	⩽0.05	⩽0.05			@1625 nm dB
		100turns of 25mm radius					
		10turns of 15mm			⩽1.0	⩽0.1	
		1turns of 10mm radius			⩽1.5	⩽0.2	
		1turns of 7.5mm radius				⩽0.5	
		1turns of 5mm radius					

The properties of single mode optical fiber

Category	Description		G.652.D Commo	G.652.D Brand	G.657.A 1	G.657.A 2	Unit/ Unidade
Dimensions	Cladding Diameter		125±0.7	125±0.5	125±0.5	125±0.5	μm
	Core / Cladding Concentricity Error		⩽0.5	⩽0.4	⩽0.4	⩽0.4	μm
	Cladding Non-circularity		⩽1.0	⩽0.7	⩽0.7	⩽0.7	%
	Coating Diameter		245±5	245±5	242±5	242±5	μm
	Coating / Cladding Concentricity Error		⩽12	⩽12	⩽8	⩽8	μm
Mechanical Characteristics	Proof Test	Fiber Strain	⩾1	⩾1	⩾1	⩾1	%
		Fiber Load	⩾9	⩾9	⩾9	⩾9	N
		Stress	⩾100	⩾100	⩾100	⩾100	kpsi
	Dynamic Stress Corrosion Susceptibility Factor	Unaged &Aged(30 days@85°C，85%R.H.)	⩾20	⩾20	⩾20	⩾20	
	Coating Strip Force	Peak Value	1.3-8.9	1.3-8.9	1.3-8.9	1.3-8.9	N
	Fiber Curl		⩾4	⩾4	⩾4	⩾4	m
Environmental Characteristics	Dry heat aging(30days@85°C)	@1310 nm, @1550 nm	⩽0.05	⩽0.05	⩽0.05	⩽0.05	dB/km
	Accelerated ageing (30days@85°C，85%R.H.)	@1310 nm, @1550 nm	⩽0.05	⩽0.05	⩽0.05	⩽0.05	dB/km
	Temperature Cycling (-60°C- +85°C)	@1310 nm, @1550 nm	⩽0.05	⩽0.05	⩽0.05	⩽0.05	dB/km
	Water Soak(30days@23°C)	@1310 nm, @1550 nm	⩽0.05	⩽0.05	⩽0.05	⩽0.05	dB/km

Cable Marking and Packing

1.Sheath marking

LOGO Fiber cable name N*cores Fiber types Year XXXXm	
LOGO	Client’ s brand
2019	Manufacture year
Fiber cable name	Cable type
FIber type	N cores single-mode optical fiber (ITU-T Rec. G.652D)
XXXXm	Mark of meters
** The marking is printed every 1 meter;* ***” G.652D” means ITU-T Rec. Low Water Peak (LWP) G.652 single mode optical fiber..*	

2. Drum Marking

2.1 Cable drum Manufacturer brand; Roll-direction arrow;
Cable outer end position indicating arrow; The word “FIBER OPTICAL CABLE”; Origin, The word “MADE IN CHINA”;
Caution plate indicating the correct method for loading, unloading and convey the cable;
Other customer information such as contract no., project no., and delivery destination. (if needed) **2.2 Marking plate**
Product name;
Cable type and size;
Drum length;
Gross / Net weight in kilograms;
Drum number in meters;
Manufacturer's name;
Manufacturing year and month;
Project number, contract number or purchasing order number (if needed).

3. Packing

Each single length of cable shall be reeled on Wooden Drum suitable for long distance shipment.
Covered by plastic buffer sheet.
Sealed by strong wooden battens.
At least 1 m of inside end of cable will be reserved for testing.
Drum length
Standard drum length is 2000-4000m
Single length not less than 96% of standard length per drum shall be permitted for quantity not exceeding 10% of the total supply
Total quantity is at least the ordered quantity.