FiberHome

Broaden Your Future

FIBERHOME TECHNOLOGIES

# FIBERHOME OPTIC-CABLE PRODUCT CATALOGUE

FiberHome

FiberHome Technologies
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FiberHome

# Company Introduction

FiberHome Technologies, a group company and the successor to Wuhan Research Institute of Posts and Telecommunications (WRI), which was established in 1974, is an outstanding products and solution provider in the field of information and communication in China.

Starting with R&D in the field of optical communications, FiberHome Technologies has developed the core optical communication technologies, which include optical communication systems, optical fibers & cables and optoelectronic devices. It is known as the place of origin of China's optical communication.

After continuous and intensive R&D for over 30 years, its business scope has been extended to development, manufacturing, sales, marketing, engineering and service in three major industries: fiber-optic communication, data networking communication and wireless communication.

# Contents

# A Brief History

1976 The first multi-mode optic fiber in China

1979 The first commercialized optic fiber in accordance with international standards in China

1984 The first single mode optic fiber in China

1991 High-bandwidth multimode graded-index optic fiber was successfully developed, which won the First prize for Progress in Science and Technology of the former Ministry of Posts and Telecommunications.

1992 National Research Center for Fiber-Optic Communication Technology and Engineering was approved by the State Planning Commission.

2000 The Wuhan optical fiber cable Industrialization Base was completed and put into operation

2002 Developed the PCVD OVD technique of producing optic fiber preform The Wuhan Optic Fiber Industrialization Base was completed and put into operation

2004 The first FTTH commercialized project in China

2005 FiberHome Fujikura Co. Ltd. established

FiberHome is honored as “the Most Influential Brand in Optical Fiber and optical fiber cable in China”;

2009 FiberHome is honored as “Leading Enterprise of Optical Fiber and Cable”

Fujikura FiberHome Opto-Electronic Material Technology Co., Ltd. established

# FiberHome Fiber Optic Cable Total Solution

# FiberHome FTTx Optic-Fiber Cable Solution


# FiberHome FTTx Optic-Fiber Cable Solution

FiberHome FTTx Optic-Fiber Cable Solution

F-1 Duct Bow Tie Shape Drop Cable-GJYPFH

F-2 Central Tube Metal-Free Mini Cable-Unitube-F Cable

F-3 Pavement Grooving Cable-Unitube-S

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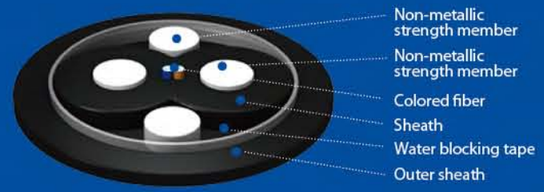
F-10 Wrapping Steel Indoor Cable-GJAJG02

# F-1 Duct Bow Tie Shape Drop Cable-GJYPFH




- Double colored fibers
- Non-metallic strength members
- Black LSZH sheath materials


## Application

- Both indoor and outdoor applications
- Drop in duct

## Features

- All-dry construction
- Fiber with small bending radius
- Cable could be terminated onsite
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Facilitates clean, safe and reliable installation
- Offers good bending resistance and transmission performance
- Flexible installation and maintenance
- Lifespan over 15 years
- Single-mode fiber G.652D, G.657 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per
- customer requirements

## Technical Specification

| Type | Outer Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Minimum Bending Radius (mm) | | Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJYPFH | 6.8 | 65 | 600 | 400 | 2200 | 1000 | 140 | 70 |
| Storage Temperature | -30~+70°C | | | | | | | |
| Operating Temperature | -30~+70°C | | | | | | | |

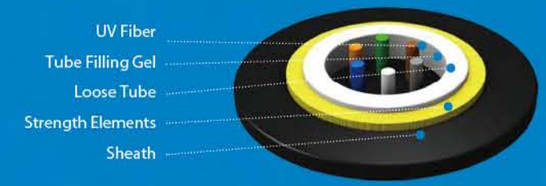
Remark: all the values in the table are reference value, subject to the actual customer request





# F-2 Central Tube Metal-Free Mini Cable-Unitube-F cable

- 2-12 fibers in loose tube
- High strength polyester yarn wrapped outside
- Good-performance sheath materials used




## Application

- Both indoor and out door application
- Dropping by duct

## Note

- The sheath materials can be specified as PVC, LSZH or others on request


## Features

- Compact cable design
- Water-blocking construction
- PE Outer sheath
- Strict craft and raw material control
- Available in hybrid version of fiber types
- Fiber type options
- Delivery length

## Benefits

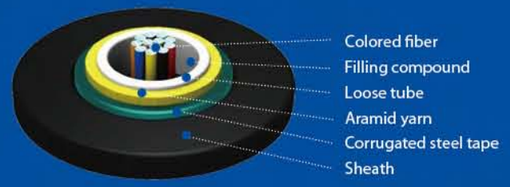
- Small size and light weight
- Offers good performance of moisture-proof and prevents water penetration
- UV-resistant, high-and-low temperature resistant, without cracking under stress
- Lifespan over 30 years
- Flexible deployment
  Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber
- A1a,A1b,OM3 or other types
  Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJXV | 2.0*3.1 | 10 | 200 | 100 | 2200 | 1000 | 40 | 20 |
| Storage Temperature | -30~+70°C | | | | | | | |
| Operating Temperature | -30~+70°C | | | | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request

# F-3 Pavement Grooving Cable-Unitube-S




- 2-12 fibers in loose tube
- High strength polyester yarn wrapped
- outside
- Good-performance sheath materials


## Application

- Indoor cabling
- Dropping by duct
- Pavement grooving

## Note

- The sheath materials can be specified as PVC, LSZH or others on request.

## Features

- Compact cable design
- Water-blocking construction
- Multiple cross features
- Available in hybrid version of fiber types
- PE Outer sheath
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Small size and light weight
- Offers good performance of moisture-proof and prevents water penetration
- Flexible installation and maintenance
- Flexible deployment
- Good endurance to tensile strength and crush resistance
- Lifespan over 30 years
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a,A1b,OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Outer Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Minimum Bending Radius (mm) | | Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| Unitube-S-6<br>Unitube-S-8<br>Unitube-S-12 | 8.7 | 65 | 1000 | 300 | 175 | 90 | 1000 | 600 |
| Storage Temperature | -40°C~+70°C | | | | | | | |
| Operating Temperature | -40°C~+70°C | | | | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request





# F-4 Bow Tie Shape Drop Cable-GJXV

- Figure-8 structure
- Colored fiber
- Metallic strength member
- Good-performance sheath materials


## Application

- Indoor cabling

## Note

- The sheath materials can be specified as PVC, LSZH or others on request


## Features

- Fiber with small bending radius
- Easy for stripping, fixation and splicing
- Cable could be terminated onsite
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

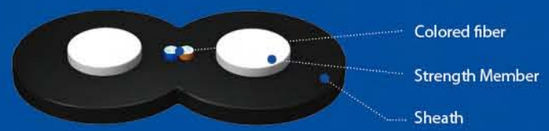
- Offers good bending resistance and transmission performance
- Simplified installation and maintenance
- Flexible installation and maintenance
- Lifespan over 15 years
- Single-mode fiber G.652D, G.657 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per
- customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJXV | 2.0*3.1 | 10 | 200 | 100 | 2200 | 1000 | 40 | 20 |
| Storage Temperature | -30~+70°C | | | | | | | |
| Operating Temperature | -30~+70°C | | | | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request

# F-5 Bow Tie Shape Drop Cable-GJXFH




- Figure-8 structure
- Colored fiber
- Non-metallic strength member
- Good-performance sheath materials


## Application

- Indoor cabling

## Note

- The sheath materials can be specified as PVC, LSZH.

## Features

- Fiber with small bending radius
- Easy for stripping, fixation and splicing
- Cable could be terminated onsite
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Facilitates clean, safe and reliable installation
- Offers good bending resistance and transmission performance
- Flexible installation and maintenance
- Lifespan over 15 years
- Single-mode fiber G.652D, G.657 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJXFH | 2.0*3.1 | 10 | 80 | 40 | 2200 | 1000 | 40 | 20 |
| Storage Temperature | -30~+70°C | | | | | | | |
| Operating Temperature | -30~+70°C | | | | | | | |

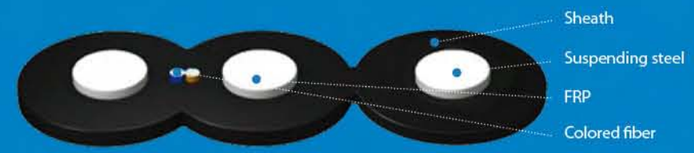
Remark: all the values in the table are reference value, subject to the actual customer request





# F-6 Self-Supporting Bow Tie Shape Drop Cable-GJYXFCH

- Single colored fiber
- Non-metallic strength member
- Self-supporting metallic strength member
- Black flame-retardant materials for sheath




## Application

- Both indoor and outdoor applications

## Note

- The sheath materials can be specified as black flame-retardant materials s on request.


## Features

- All-dry construction
- Fiber with small bending radius
- Cable could be terminated onsite
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Facilitates clean, safe and reliable installation
- Offers good bending resistance and transmission performance
- Flexible installation and maintenance
- Lifespan over 15 years
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a,A1b,OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJYXFCH | 2.0*5.4 | 25 | 600 | 300 | 2200 | 1000 | 40 | 20 |
| Storage Temperature | -30~+70°C | | | | | | | |
| Operating Temperature | -30~+70°C | | | | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request

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# F-8 Multi-Core Indoor Bundle Cable-GJFJV


- 2-12 tight buffered fibers
- High modulus aramid yarn
- Strength member
- High-performance sheath materials


## Application

- Applicable to horizontal and vertical cabling inside buildings
- Multi-core patch cord
- As transmission cable in transmission equipment

## Note

- The sheath materials can be specified as PVC, LSZH, PLENUM or others on request.

## Features

- Compact cable design
- All dielectric construction design
- Small bending radius
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Offers good bending resistance and transmission performance
- Simplified installation and maintenance
- Flexible installation and maintenance
- Lifespan over 15 years
- Single-mode fiber G.652D, G.657 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as
- per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJFBJV-4 | 7.0 | 45 | 600 | 200 | 220 | 110 | 1000 | 300 |
| GJFBJV-6 | 9.0 | 60 | 600 | 200 | 220 | 110 | 1000 | 300 |
| GJFBJV-8 | 10.0 | 75 | 600 | 200 | 220 | 110 | 1000 | 300 |
| GJFBJV-12 | 11.0 | 90 | 600 | 200 | 220 | 110 | 1000 | 300 |
| Storage Temperature | | | | -20~+60°C | | | | |
| Operating Temperature | | | | -20~+60°C | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request



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# F-9 Multi-Core Break-Out Cable II-GJFBJV-24

- 24 single-core cable, stranded structure
- High modulus aramid yarn strength member
- Good-performance sheath materials


## Application

- Horizontal and vertical cabling inside buildings
- Multi-Core Patch cord
- As the connect cable transmission equipment

## Note

- The sheath materials can be specified as PVC, LSZH, PLENUM or others on request.


## Features

- Compact cable design
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Small size, light weight and excellent stress and strain properties
- Lifespan over 15 years
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a,A1b,OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJFBJV-24 | 15.0 | 165 | 1320 | 400 | 300 | 100 | 1000 | 300 |
| Storage Temperature | | | | -20~+60°C | | | | |
| Operating Temperature | | | | -20~+60°C | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request

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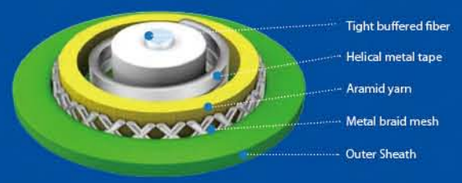
# F-10 Wrapping Steel Indoor Cable-GJAJG02




- Tight buffered fiber
- High modulus aramid yam strength member
- Helical metal tube and metal wire mesh
- Good-performance sheath materials adopted


## Application

- Applicable to cabling in equipment room and inside buildings

## Note

- No sheath protection tuba is required when laying cable, saving space in groove and facilitating cable laying
- The sheath materials can be specified as PVC, LSZH, PLENUM or others on request.

## Features

- Stainless stool
- Tight Buffered optic fiber
- Small bending radius
- 12 color are available for outer sheath
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Offer excellent tensile strength
- Crush resistance resistant and withstand Repeated bending and rat proof
- Flexible deployment and specially for indoor cabling
- Easy identification, packing and maintenance
- Lifespan over 15 years
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a,A1b,OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength (N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJAJG02 | 4.0 | 35 | 200 | 100 | 300 | 100 | 2000 | 1000 |
| Storage Temperature | -20~+60°C | | | | | | | |
| Operating Temperature | -20~+60°C | | | | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request



# FiberHome Urban Optic-Fiber Cable Solution

# FiberHome Urban Optic-Fiber Cable Solution

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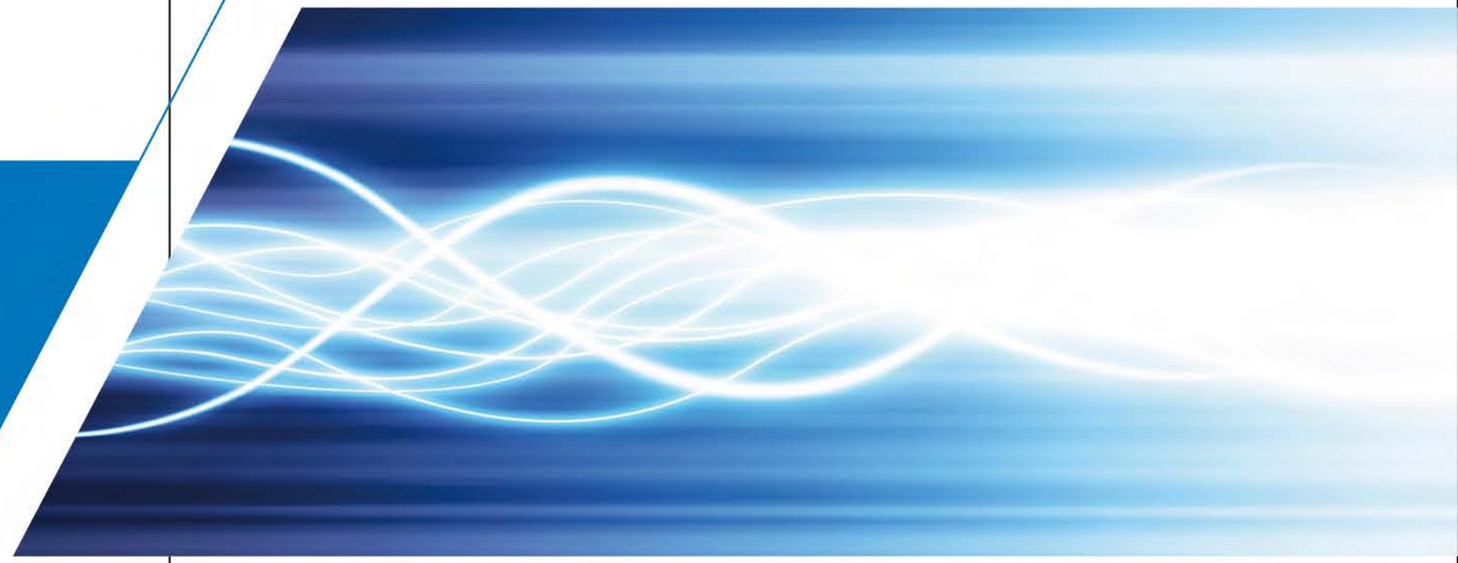


T-1 Central Tube Fiber Ribbon Cable-GYDXTW

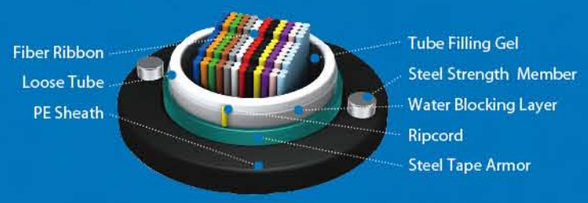

T-2 Loose Tube Stranded Cable-GYTA


T-3 Loose Tube Stranded Fiber Ribbon Cable-GYDTA


T-4 Air-Blown Micro-Cable


T-5 3G Zoom Cable-GJBFJU

# T-1 Central Tube Fiber Ribbon Cable-GYDXTW




- Central loose tube
- Two parallel steel wires and corrugated
- Steel tape armored PE sheath
- Fiber ribbon outdoor Cable


## Performance

- **Application**
  Access network (especial in FTTC and FTTB), inter-office connection and CATV network
- **Installation** Duct/Aerial
- **Operating Temperature** -40°C~+70°C
- **Bending Radius**
  Static 10×Cable-Ø Dynamic 20×Cable-Ø

## Note

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYDXTZW
- Customized cable structure is available

## Features

- Water-blocking construction
- Special tube filling gel
- Two parallel steel wires
- Strict craft and raw material control
- Customized longitudinal color strip
- Fiber ribbon options

## Benefits

- Offers good performance of moisture-proof and prevents water
- penetration
- Provides good protection for optic fiber
- High desirable tensile strength and crush resistance
- Lifespan over 30 years
- Easy identification, packing and maintenance
- 4-fiber ribbon, 6-fiber ribbon,8-fiber ribbon,12-fiber ribbon

## Technical Specification

| | Fiber Count (mm) | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Ribbon per Tube | Allowable Tensile Load (N) Short Term | Allowable Tensile Load (N) Long Term | Allowable Crush Resistance (N/100mm) Short Term | Allowable Crush Resistance (N/100mm) Long Term |
|---|---|---|---|---|---|---|---|---|
| 9-Fiber Ribbon | 8~24 | 11.5 | 136 | 3 | 1500 | 600 | 1000 | 300 |
| | 32~48 | 12.4 | 154 | 6 | 1500 | 600 | 1000 | 300 |
| | 56~64 | 13.1 | 171 | 8 | 1500 | 600 | 1000 | 300 |
| 12-Fiber Ribbon | 12~48 | 13.5 | 178 | 4 | 1500 | 600 | 1000 | 300 |
| | 60~72 | 13.9 | 189 | 6 | 1500 | 600 | 1000 | 300 |
| | 84~96 | 14.6 | 203 | 8 | 1500 | 600 | 1000 | 300 |
| | 108~144 | 15.9 | 230 | 12 | 1500 | 600 | 1000 | 300 |
| | 156~216 | 18.9 | 310 | 18 | 1500 | 600 | 1000 | 300 |
| 24-Fiber Ribbon | 240~288 | 20.0 | 350 | 12 | 1500 | 600 | 1000 | 300 |
| | 312~432 | 21.4 | 376 | 18 | 1500 | 600 | 1000 | 300 |





# T-2 Loose Tube Stranded Cable-GYTA

- Metallic central strength member
- Loose tube stranded
- Corrugated aluminum
- Tape armored outdoor cable


## Performance

- **Application**
  Long haul and building network communication
- **Installation** Duct/Aerial
- **Operating Temperature** -40°C~+70°C
- **Bending Radius**
  Static 10×Cable-Ø Dynamic 20×Cable-Ø

## Note

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYTZA
- Customized cable structure is available


## Features

- Water-blocking construction and LAP sheath
-
- Special filling gel in loose tubes
- Phosphated steel wire as central strength member
- Strict craft and raw material control enable
- Customized longitudinal color strip

## Benefits

- Provide good performance of moisture-proof and prevents
- water penetration
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus
- Lifespan over 30 years
- Easy identification, packing and maintenance

## Technical Specification

| Fiber Count (mm) | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) Short Term | Allowable Tensile Load (N) Long Term | Allowable Crush Resistance (N/100mm) Short Term | Allowable Crush Resistance (N/100mm) Long Term |
|---|---|---|---|---|---|---|---|---|
| 2~30 | 9.7 | 90 | 6 | 5 | 1500 | 600 | 1000 | 300 |
| 32~36 | 10.3 | 109 | 6 | 6 | 1500 | 600 | 1000 | 300 |
| 38~60 | 10.8 | 119 | 12 | 5 | 1500 | 600 | 1000 | 300 |
| 62~72 | 11.5 | 145 | 12 | 6 | 1500 | 600 | 1000 | 300 |
| 74~96 | 13.3 | 171 | 12 | 8 | 1500 | 600 | 1000 | 300 |
| 98~120 | 14.8 | 209 | 12 | 10 | 1700 | 600 | 1000 | 300 |
| 122~144 | 16.6 | 249 | 12 | 12 | 2000 | 600 | 1000 | 300 |
| 146~216 | 16.7 | 254 | 12 | 18 (2layers) | 2000 | 600 | 1000 | 300 |
| 218~288 | 19.0 | 325 | 12 | 24 (2layers) | 2500 | 600 | 1000 | 300 |
| | | | | | | 600 | 1000 | 300 |

# T-3 Loose Tube Stranded Fiber Ribbon Cable-GYDTA


- Central strength member
- Loose tube stranded
- Corrugated steel tape armored double PE sheath


## Features

- Water-blocking construction
- Special filling gel in loose tubes
- Phosphated steel wire as central strength member
- High fiber density
- Strict craft and raw material control
- Customized longitudinal color strip
- Fiber ribbon options

## Benefits

- Provided reliable performance of moisture-proof and prevents water penetration
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus
- Convenient installation and cost savings
- Lifespan over 30 years
- Easy identification, packing and maintenance
- 4-fiber ribbon, 6-fiber ribbon,8-fiber ribbon,12-fiber ribbon

## Performance

- **Application**
  Access network (especial in FTTC and FTTB), interoffice connection and CATV network
- **Installation** Duct/Aerial
- **Operating Temperature** -40°C~+70°C
- **Bending Radius**
  Static 10×Cable-Ø Dynamic 20×Cable-Ø

## Note

- If loose tube stranded fiber ribbon cable is armored with steel tape, the type is GYDTS
- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYDTZA,GYDTZS
- Customized cable structure is available

## Technical Specification

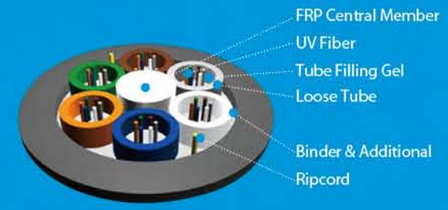
| | Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Ribbon per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) | | Allowable Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Short Term | Long Term | Short Term | Long Term |
| 4-FiberRibbon | 8~96 | 15.4 | 217 | 4 | 6 | 1500 | 600 | 1000 | 300 |
| 6-Fiber | 12~120 | 15.6 | 220 | 4 | 5 | 1500 | 600 | 1000 | 300 |
| Ribbon | 126~144 | 16.3 | 226 | 6 | 4 | 1500 | 600 | 1000 | 300 |
| | 150~216 | 18.8 | 307 | 6 | 6 | 2200 | 600 | 1000 | 300 |
| 8-Fiber | 8~192 | 16.8 | 240 | 6 | 4 | 1500 | 600 | 1000 | 300 |
| Ribbon | 200~288 | 19.7 | 320 | 6 | 6 | 2200 | 600 | 1000 | 300 |
| | 194~384 | 21.8 | 390 | 8 | 6 | 2200 | 600 | 1000 | 300 |
| 12-Fiber | 24~192 | 18.3 | 288 | 4 | 4 | 2200 | 600 | 1000 | 300 |
| Ribbon | 204~288 | 19.5 | 320 | 6 | 4 | 2200 | 600 | 1000 | 300 |
| | 300~432 | 21.6 | 385 | 9 | 4 | 2200 | 600 | 1000 | 300 |
| | 444~600 | 24.0 | 450 | 10 | 6 | 2200 | 600 | 1000 | 300 |
| | >600 | | Available upon customer's request | | | | | | |





# T-4 Air-Blown Micro Cable-GCYFY

- Central loose tube or stranded structure
- Non-metallic strength elements
- PE outer sheath




## Application

- **Application** FTTx network
- **Installation** Duct Air-blown


## Features

- Compact cable design
- Adaptable performance in temperature
- Suitable air-blown installation
- Fiber type options
- Delivery length
- Customer taiored cable structure design

## Benefits

- Small size, light weight and high fiber density
- Wide deployed in different temperature environments
- Low initial investment and quick capacity expansion
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a, A1b, OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as
- customer requirements

## Technical Specification

| Structure | Fiber Cores | Cable Diameter (mm) | Cable Weight (kg/km) | Allowable Tensile(N) | Allowable Crush(N/10cm) |
|---|---|---|---|---|---|
| Central Loose Tube | 2~12 | 4.0±0.1 | 14 | 120 | 450 |
| | 12~24 | 4.5±0.1 | 16 | 150 | 450 |
| Strand Loose Tube | 2~72 | 5.8±0.2 | 26 | 500 | 800 |
| | 74~96 | 6.6±0.2 | 40 | 700 | 800 |
| | 98~144 | 8.0±0.2 | 56 | 800 | 800 |

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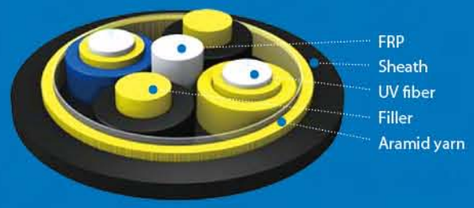
# T-5 3G Zoom Cable-GJBFJU




- 2 simplex cables with stranded structure
- Aramid yarn strength member with high Young's module
- Low-smoke zero halogen (LSZH) sheath


## Application

- Zoom cable for 3G base station
- Applicable to horizontal and vertical cabling inside building
- Serve as the optical transmission line in the communication equipment

## Note

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYDXTZW
- Customized cable structure is available

## Features

- Compact cable design
- Small bending radius
- TPU outer sheath
- All dielectric construction design
- Fiber type options
- Delivery length

## Benefits

- Small size and light weight
- Flexible deployment and specially for 3G BS connection
- Excellent flammability, abrasion resistance, ultraviolet radiation resistance and stress cracking resistance characteristics
- Eliminates electromagnetic induction effect
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a, A1b, OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Nominal Diameter (mm) | Nominal Weight (kg/km) | Allowable Tensile Load (N) | | Minimum Bending Radius(mm) | | Allowable Crush Resistant(N/10cm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJBFJU | 7 | 35 | 400 | 200 | 140 | 70 | 300 | 1000 |
| Storage temperature range | -25°C~+85°C | | | | | | | |
| Operating temperature range | -20°C~+60°C | | | | | | | |



FiberHome Suburb Optic-Fiber Cable Solution

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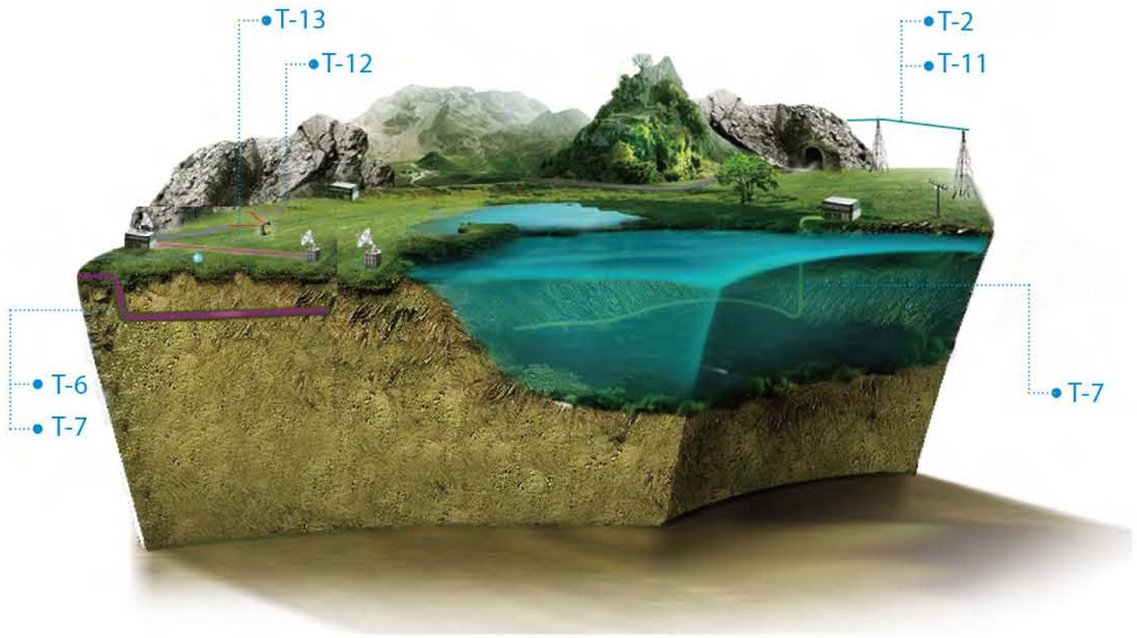
# FiberHome Suburb Optic-Fiber Cable Solution



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T-6 Loose Tube Stranded Cable with Double Armored And Double PE Sheath–GYTA53

T-7 Loose Tube Stranded Heavy Duty Direct-Burial Cable With Steel Wire Enhanced–GYTA33

T-8 Loose Tube Stranded Cable With Steel Tape Armored PE Sheath–GYTS

T-9 Loose Tube Stranded Cable With Steel Tape Armored PE Sheath–GYFTA

T-10 Loose tube stranded metal-free cable Outdoor Cable Stranded Cable-GYFTY

T-11 All-dielectric self-supporting aerial cable (ADSS) Outdoor Cable Stranded Cable-GYFTC

T-12 Military Field Cable-Emergency Cable-GJPFJU

T-13 Opto-Electronic Composite Cable-GY (F) TA-xB1+n*1.5

T-14 Loose tube stranded figure 8 self-supporting aerial cable

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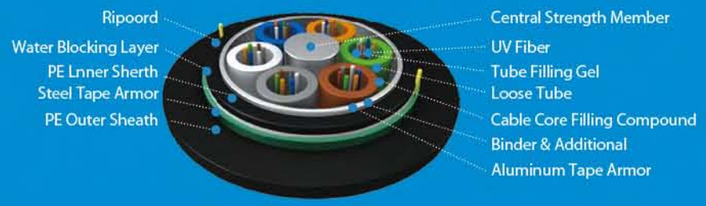
# T-6 Loose Tube Stranded Cable With Double Armored And Double PE Sheath - GYTA53




- Central strength member
- Loose tube stranded
- Aluminum tape armored PE inner sheath
- Corrugated steel tape armored
- PE outer sheath outdoor cable


## Performance

- Application
  Long haul and building networkcommunication
- Installation Duct/Aerial
- Operating Temperature -40°C~+70°C
- Bending Radius
  Static 12.5×Cable-Ø Dynamic 25×Cable-Ø

## Note

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYTZA53
- For the anti-termite cable, additional Nylon resin is
- extruded over the outer sheath and the type is GYFTA54
  Customized cable structure is available

## Features

- Water-blocking construction and LAP sheath
- Special tube filling gel
- Phosphated steel wire as central strength member
- Longitudinal corrugated aluminum tape and
- steel tape
- Strict craft and raw material control enable
- Customized longitudinal color strip

## Benefits

- Offers good performance of moisture-proof and prevents water
- penetration
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus
- High desirable tensile strength and crush resistance
- Lifespan over 30 years
- Easy identification, packing and maintenance

## Technical Specification

| Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) | | Allowable Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Short Term | Long Term | Short Term | Long Term |
| 2~36 | 13.9 | 202 | 6 | 6 | 3000 | 1000 | 3000 | 1000 |
| 38~72 | 15.1 | 241 | 12 | 6 | 3000 | 1000 | 3000 | 1000 |
| 74~96 | 17.1 | 290 | 12 | 8 | 3000 | 1000 | 3000 | 1000 |
| 98~120 | 18.6 | 333 | 12 | 10 | 3000 | 1000 | 3000 | 1000 |
| 122~144 | 20.2 | 381 | 12 | 12 | 3000 | 1000 | 3000 | 1000 |
| >144 | | | Available upon customer's request | | | | | |



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# T-7 Loose Tube Stranded Heavy Duty Direct-burial Cable With Steel Wire Enhanced - GYTA33

- Central strength member
- Loose tube stranded aluminum tape armor
- PE inner sheath
- Steel wire armored
- PE outer sheath outdoor cable



## Performance

- Application
  Long haul and building network comm unication
- Installation Direct buried/ underwater
- Operating Temperature -40°C~+70°C
- Bending Radius
  Static15×Cable-Ø Dynamic 30×Cable-Ø

## Note

- According to different applications, GYTA333. GYTS33, GYTY53+33,GYTY53+333,GYTA53+33, GYTA53+333 can be provided
- Customized cable structure is available

## Features

- Water-blocking construction
- Special tube filling gel
- Phosphated steel wire as central strength member
- Longitudinal coated aluminum tape and stranded steel wires
- Strict craft and raw material control enable

## Benefits

- Offers good performance of moisture-proof and prevents water
- penetration
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus
- High desirable tensile strength and crush resistance, bullet proof
- property, heavy duty direct burial or underwater installation
  Lifespan over 30 years

## Technical Specification

| Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) | | Allowable Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Short Term | Long Term | Short Term | Long Term |
| 2~30 | 15.5 | 407 | 6 | 5 | 10000 | 4000 | 5000 | 3000 |
| 32~36 | 16.0 | 437 | 6 | 6 | 10000 | 4000 | 5000 | 3000 |
| 38~60 | 16.6 | 463 | 12 | 5 | 10000 | 4000 | 5000 | 3000 |
| 62~72 | 17.2 | 499 | 12 | 6 | 10000 | 4000 | 5000 | 3000 |
| >72 | | | Available upon customer's request | | | | | |

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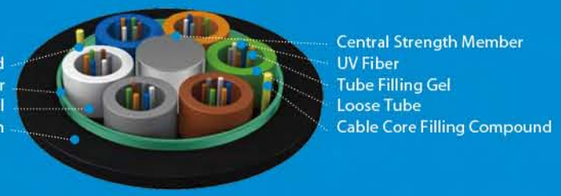
# T-8 Loose Tube Stranded Cable With Steel Tape Armored PE Sheath - GYTS




- Metallic central strength member
- Loose tube stranded
- Corrugated aluminum tape armored
- outdoor cable


## Performance

- **Application**
  Long haul and building network comm unication
- **Installation** Duct/ Aerial
- **Operating Temperature** -40°C~+70°C
- **Bending Radius**
  Static 10×Cable-Ø Dynamic 20×Cable-Ø

## Features

- Water-blocking construction and PSP sheath
  Special tube filling gel
- Phosphated steel wire as central strength member
- Strict craft and raw material control
- Customized longitudinal color strip

## Note

- For flame resistant cable, outer sheath can be made of low-smoke zero halogen (LSZH) material, and the type is GYTZS
- On customer's requests, longitudinal color strip on outer sheath can be provided. Moredetails, please refer to GYTA series
- Special cable structure can be designed and manufactured based on customer's requirements

## Benefits

- Offers good performance of moisture-proof and prevents water penetration
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus
- Lifespan over 30 years
- Easy identification, packing and maintenance

## Technical Specification

| Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) Short Term | Allowable Tensile Load (N) Long Term | Allowable Crush Resistance (N/100mm) Short Term | Allowable Crush Resistance (N/100mm) Long Term |
|---|---|---|---|---|---|---|---|---|
| 2~30 | 10.0 | 110 | 6 | 5 | 1500 | 600 | 1000 | 300 |
| 32~36 | 10.7 | 132 | 6 | 6 | 1500 | 600 | 1000 | 300 |
| 38~60 | 11.4 | 139 | 12 | 5 | 1500 | 600 | 1000 | 300 |
| 62~72 | 12.0 | 165 | 12 | 6 | 1500 | 600 | 1000 | 300 |
| 74~96 | 13.8 | 204 | 12 | 8 | 2000 | 600 | 1000 | 300 |
| 98~120 | 15.3 | 240 | 12 | 10 | 2000 | 600 | 1000 | 300 |
| 122~144 | 17.0 | 284 | 12 | 12 | 2500 | 600 | 1000 | 300 |
| 146~216 | 17.1 | 285 | 12 | 18 (2layers) | 2500 | 600 | 1000 | 300 |
| 218~288 | 19.5 | 350 | 12 | 24 (2layers) | 3000 | 600 | 1000 | 300 |



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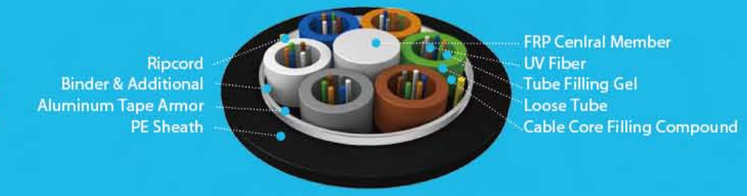
# T-9 Loose Tube Stranded Cable With Steel Tape rmored PE Sheath–GYFTA

- FRP central strength member
- Loose tube stranded
- Corrugated aluminum tape armored outdoor cable





## Performance

- **Application**
  Long haul and building network communication
- **Installation** Duct/ Aerial
- **Operating Temperature** -40°C~+70°C
- **Bending Radius**
  Static 10×Cable-Ø Dynamic 20×Cable-Ø

## Features

- Water-blocking construction and LAP sheath
- Special tube filling gel
- Fiber Reinforced Plastic as central strength member
- Strict craft and raw material control
- Customized longitudinal color strip

## Note

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFTZA
- Customized cable structure is available

## Benefits

- Offers good performance of moisture-proof and prevents water penetration
- Provides good protection for optic fiber
- High Young's modulus
- Lifespan over 30 years
- Easy identification, packing and maintenance

## Technical Specification

| Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) Short Term | Allowable Tensile Load (N) Long Term | Allowable Crush Resistance (N/100mm) Short Term | Allowable Crush Resistance (N/100mm) Long Term |
|---|---|---|---|---|---|---|---|---|
| 2~36 | 10.9 | 100 | 6 | 6 | 1500 | 600 | 1000 | 300 |
| 38~72 | 11.8 | 115 | 12 | 6 | 1500 | 600 | 1000 | 300 |
| 74~96 | 13.7 | 155 | 12 | 8 | 1500 | 600 | 1000 | 300 |
| 98~120 | 15.2 | 187 | 12 | 10 | 1700 | 600 | 1000 | 300 |
| 122~144 | 17.0 | 231 | 12 | 12 | 2000 | 600 | 1000 | 300 |
| 146~216 | 17.1 | 230 | 12 | 18 (2layers) | 2000 | 600 | 1000 | 300 |
| 218~288 | 19.6 | 306 | 12 | 24 (2layers) | 2500 | 600 | 1000 | 300 |

# T-10 Loose tube stranded metal-free cable Outdoor Cable Stranded Cable-GYFTY



## Performance

- **Application**
  The actual status of Overhead power lines
- **Installation**
  Upon application condition
- **Installation**
  Self-supporting aerial
- **Operating Temperature**
  -40°C~+70°C

## Features

- Water-blocking construction and LAP sheath
- Special filling gel in loose tubes
- Phosphated steel wire as central strength member
- All dielectric construction design
- Strict craft and raw material control enable
- Customized longitudinal color strip

## Note

- For flame retardant cable, outer sheath can be made of low-smoke zero halogen (LSZH) material, and the type is GYFTZY.
- The aluminum tape armored or steel tape armored cable can be provided the type is GYFTA or GYFTS.
- On customer's requests, longitudinal color strip on outer sheath can be provided. More details please refer to GYTA series.
- Special cable structure can be designed and manufactured on customer's request.

## Benefits

- Provide good performance of moisture-proof and prevents water penetration
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus
- Eliminates electromagnetic induction effect
- Lifespan over 30 years
- Easy identification, packing and maintenance

## Technical Specification

| Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) | | Allowable Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Short Term | Long Term | Short Term | Long Term |
| 2~36 | 10.2 | 85 | 6 | 6 | 1500 | 600 | 1000 | 300 |
| 38~72 | 11.1 | 100 | 12 | 6 | 1500 | 600 | 1000 | 300 |
| 74~96 | 12.6 | 130 | 12 | 8 | 1500 | 600 | 1000 | 300 |
| 98~120 | 14.1 | 162 | 12 | 10 | 1500 | 600 | 1000 | 300 |
| 122~144 | 15.9 | 204 | 12 | 12 | 1800 | 600 | 1000 | 300 |
| 146~216 | 15.9 | 205 | 12 | 18 (2layers) | 1800 | 600 | 1000 | 300 |
| >144 | | | | Available upon customer's request | | | | |



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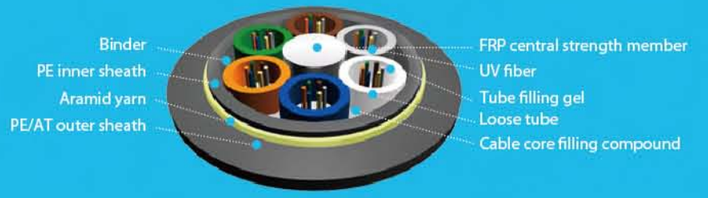
# All-dielectric self-supporting aerial cable (ADSS) Outdoor Cable Stranded Cable-GYFTCY

FRP central strength member
Loose tube stranded
PE sheath all-dielectric
Self-supporting aerial cable





## Performance

- **Application**
  The actual status of Overhead power lines
- **Installation** Upon application condition
- **Installation** Self-supporting aerial
- **Operating Temperature** -40°C~+70°C

## Features

- Water-blocking construction and LAP sheath water penetration
- Special filling gel in loose tubes
- Phosphated steel wire as central strength member tensile strain in severe climatic condition
- All dielectric construction design
- Strict craft and raw material control enable
- Customized longitudinal color strip
  High voltage fields

## Note

- The cable technology parameters and fiber count, weather, span can be designed according to the project's requirement
  For the actual status of overhead power lines and the load on
- pole and towers suspension point. AT outer sheath is applied
  Large span lengths and the largest span is over 1200m

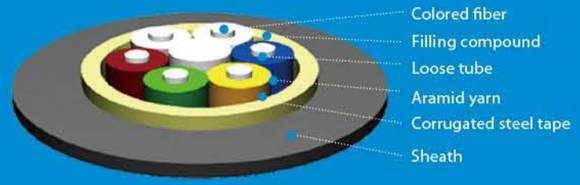
## Benefits

- Provide good performance of moisture-proof and prevents
- Provides good protection for optic fiber
- High Corrosion resistance and Young's modulus, no fiber
- Eliminates electromagnetic induction effect
- Lifespan over 30 years
- Easy identification, packing and maintenance
- Special PEIAT (anti-tracking) outer sheath suitable for installation in induced voltage fields

## Technical Specification

| Fiber Count | Nominal Diameter (mm) | Nominal Weight (kg/km) | Max Fibers per Tube | No. of (Tubes +fillers) | Allowable Tensile Load (N) | | Allowable Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Short Term | Long Term | Short Term | Long Term |
| 2~36 | 10.7 | 92 | 6 | 6 | 2700 | 1000 | 1000 | 300 |
| 38~72 | 11.6 | 103 | 12 | 6 | 2700 | 1000 | 1000 | 300 |
| 74~96 | 13.3 | 149 | 12 | 8 | 2700 | 1000 | 1000 | 300 |
| 98~120 | 14.8 | 180 | 12 | 10 | 2700 | 1000 | 1000 | 300 |
| 122~144 | 16.4 | 222 | 12 | 12 | 2700 | 1000 | 1000 | 300 |
| 146~216 | 18.8 | 224 | 12 | 18 (2layers) | 2700 | 1000 | 1000 | 300 |
| >216 | | | | Available upon customer's request | | | | |

# T-12 Military Field Cable-Emergency Cable-GJPFJU




- Multiple tight buffered fibers
- High-quality aramid yarn strength
- member
- High performance PU sheath materials


## Application

- Connecting cable for 3G equipment
- Temporarily connection and emergency repair

## Features

- High-quality aramid yarn
- PU outer sheath
- Strict craft and raw material control
- Fiber type options
- Delivery length

## Benefits

- Provide high tensile strength and the cable could be repeatedly coiling used
- Ensures excellent bending, abrasion resistance and UV-resistance
- Lifespan over 15 years
- Single-mode fiber G.652B/D,G.657 or G.655A/B/C,multi-mode fiber A1a, A1b, OM3 or other types
- Standard lengths are 3 km, 2 km, 4 km; Other length is available as per customer requirements

## Technical Specification

| Type | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength(N) | | Crush Resistance (N/100mm) | | Minimum Bending Radius(mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | Short Term | Long Term | Short Term | Long Term | Short Term | Long Term |
| GJPFJU-2 | 5.2 | 23 | 1500 | 600 | 500 | 200 | 120 | 60 |
| GJPFJU-4 | 5.2 | 25 | 1500 | 600 | 500 | 200 | 120 | 60 |
| GJPFJU-6 | 6.0 | 33 | 1500 | 600 | 500 | 200 | 120 | 60 |
| Storage Temperature | -20~+60°C | | | | | | | |
| Operating Temperature | -20~+60°C | | | | | | | |

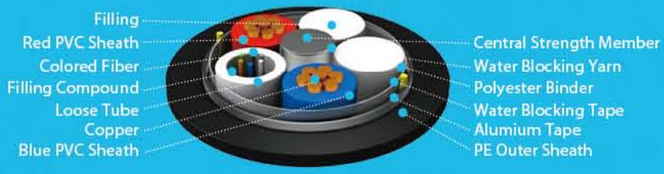
Remark: all the values in the table are reference value, subject to the actual customer request





# T-13 Opto-Electronic Composite Cable-GY (F) TA-xB1+n*1.5

- Metallic (nonmetallic) strength member
- Loose tube stranded and filing type
- Dry core structure
- Water blocking tape and aluminum tape longitudinal folded





## Performance

- Optical fiber communication and provide electric power energy apart from long distance
- The cable is the ideal integrated solution for application such as long-distance non-attended equipment room, equipment room in residential quarters, mobile base station, customer access and so on

## Note

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYTZA
- If the longitudinal corrugated steel tape is choose, the type is GYFTS
- Customized cable structure is available

## Features

- PE Outer sheath
- Water-blocking construction
- High-quality annealed copper wire
- Customized longitudinal color strip

## Benefits

- Provide excellent ultraviolet radiation resistant performance
- Offers good performance of moisture-proof and prevents water penetration
- Provide electric power energy apart form long distance
- Easy identification, packing and maintenance

## Technical Specification

| Core number | Cross-section area of power wire (mm2) | Quantity of power wire | Cable Diameter (mm) | Weight (kg/km) | Tensile Strength(N) | | Crush Resistance (N/100mm) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Short Term | Long Term | Short Term | Long Term |
| 2~12 | 1.5 | 2 (red, blue) | 12.9 | 155 | 1500 | 600 | 1000 | 300 |
| 2~12 | 1.5 | 3 (red, blue, green yellow | 12.9 | 173 | 1500 | 600 | 1000 | 300 |
| 2~12 | 2.5 | 2 (red, blue) | 15.4 | 260 | 1500 | 600 | 1000 | 300 |
| 2~12 | 2.5 | 3 (red, blue, green yellow | 15.4 | 301 | 1500 | 600 | 1000 | 300 |
| Storage Temperature | -20~+60°C | | | | | | | |
| Operating Temperature | -20~+60°C | | | | | | | |

Remark: all the values in the table are reference value, subject to the actual customer request

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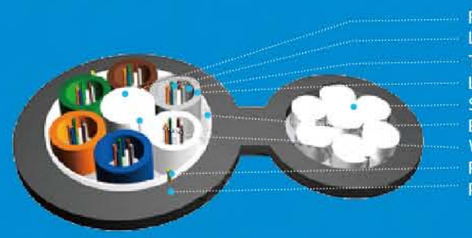
# T-14 Loose tube stranded figure 8 self-supporting aerial cable




- Steel messenger
- Central strength member
- Loose tube stranded
- PE outer sheath outdoor cable


## Features

- Figure 8 self-supporting structure
- Water-blocking construction
- Great mechanical performance

## Benefits

- Central loose tube or strand loose structure
- Cost saving for easy aerial installation
- Lifespan over 30 years

## Performance

- High quality optical fiber provides good transmission performance
- Accurate fiber excess length control ensures excellent mechanical and temperature performance
- All section water blocking provide reliable performance of moisture-proof and water block

## Technical Specification

| Fiber Cores | Cable Diameter (mm) | Cable Weight (kg/km) | Max fiber per tube | No. of tubes + fillers | Allowable Tensile(N) Short term | Allowable Tensile(N) Long term | Allowable Crush (N/10cm) |
|---|---|---|---|---|---|---|---|
| 2~30 | 9.4*17.4 | 156 | 6 | 5 | 7000 | 4000 | 1000 |
| 32~36 | 10.0*18.0 | 170 | 6 | 6 | 7000 | 4000 | 1000 |
| 38~60 | 10.6*18.6 | 175 | 12 | 5 | 7000 | 4000 | 1000 |
| 62~72 | 10.9*19.0 | 185 | 12 | 6 | 7000 | 4000 | 1000 |
| >72 | Available upon customer's request | | | | | | |



# Appendix-A FiberHome Optic Fiber

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# Multi-Mode Fiber Series

A1a.1 (50/125μm) multi-mode fiber

## A1a.1 Fiber Characteristics

■ Optics Specifications

| | | Class A | Class B | Class C |
|---|---|---|---|---|
| Attenuation(dB/km) | @850nm | ≤2.40 | ≤2.50 | ≤2.80 |
| | @1300nm | ≤0.55 | ≤0.70 | ≤0.90 |
| Bandwidth(MHz.km) | @850nm | ≥500 | ≥400 | ≥200 |
| | @1300nm | ≥1000 | ≥800 | ≥400 |
| Numerical aperture (NA) | | 0.20±0.015 | 0.20±0.015 | 0.20±0.015 |

■ Back scatter characteristics (@1300nm)

| | |
|---|---|
| | ≤0.10dB |
| Point discontinuity (average of bidirectional measurement) | ≤0.10dB/km |
| Attenuation uniformity | ≤0.10dB/km |
| Attenuation coefficient difference for bidirectional measurement | |

■ Geometrical characteristics

| | |
|---|---|
| Core diameter | 50±2.5μm |
| Core non-circularity | ≤6.0% |
| Cladding diameter | 125±2μm |
| Cladding non-circularity | ≤2.0% |
| Core/cladding concentricity error | ≤1.5μm |
| Coating diameter | 245±10μm |
| Coating/cladding concentricity error | ≤12.0μm |

■ Environmental characteristics @850nm & 1300nm

| | |
|---|---|
| Temperature induced attenuation(-60~+85°C) | ≤0.15dB/km |
| Dry heat induced attenuation (85°C±2°C,30 days) | ≤0.20dB/km |
| Water immersion induced attenuation (23°C±2°C, 30 days) | ≤0.20dB/km |
| Damp heat induced attenuation (85°C±2°C,RH85%,30 days) | ≤0.20dB/km |

■ Mechanical characteristics

| | | |
|---|---|---|
| Proof test | | ≥0.69GPa |
| Coating strip force (typical value) | | 1.4N |
| Dynamic stress corrosion susceptibility parameter (typical value) | | ≥20 |
| Macro-bend Loss | @850nm | ≤0.5dB |
| (100 turns,Φ75m) | @1300nm | ≤0.5dB |



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# Multi-Mode Fiber Series

A1a.2/OM3 (10GE) multi-mode fiber

## A1a.2/OM3 Fiber Characteristics

■ Optics Specifications

| | | Class A | Class B | Class C |
|---|---|---|---|---|
| Attenuation(dB/km) | @850nm | ≤2.3 | ≤2.3 | ≤2.3 |
| | @1300nm | ≤0.6 | ≤0.6 | ≤0.6 |
| OFL Bandwidth (MHz.km) | @850nm | ≥700 | ≥1500 | ≥3500 |
| | @1300nm | ≥500 | ≥500 | ≥500 |
| Effective modal bandwidth (MHz.km) | @850nm | ≥900 | ≥2000 | ≥4700 |
| | @1300nm | ≥500 | ≥500 | ≥500 |
| Application support distance | 10GE-SX (850nm) | 150m | 300m | 550m |
| | GE-SX (850nm) | | 1000m | 1000m |
| | GE-LX (1300nm) | | 600m | 600m |
| DMD Specification | | See note | See note | See note |
| Numerical aperture | | 0.200±0.015 | 0.200±0.015 | 0.200±0.015 |
| Effective group index(Neff)@850nm | | 1.482 | 1.482 | 1.482 |
| Effective group index(Neff)@1310nm | | 1.477 | 1.477 | 1.477 |

■ Back scatter characteristics (@1300nm)

| | |
|---|---|
| Point discontinuity (average of bidirectional measurement) | ≤0.10dB |
| Irregularities over fiber length and point discontinuity | ≤0.10dB |
| Attenuation uniformity | ≤0.08dB/km |

■ Geometrical characteristics

| | |
|---|---|
| Core diameter | 50±2.5μm |
| Core non-circularity | ≤5.0% |
| Cladding diameter | 124.8±1.0μm |
| Cladding non-circularity | ≤1.0% |
| Core/cladding concentricity error | ≤1.0μm |
| Coating diameter | 245±7μm |
| Coating/cladding concentricity error | ≤12.0μm |

■ Environmental characteristics @850nm & 1300nm

| | |
|---|---|
| Temperature induced attenuation(-60~+85°C) | ≤0.10dB/km |
| Dry heat induced attenuation (85°C±2°C,30 days) | ≤0.10dB/km |
| Water immersion induced attenuation (23°C±2°C, 30 days) | ≤0.10dB/km |
| Damp heat induced attenuation (85°C±2°C,RH85%,30 days) | ≤0.10dB/km |

■ Mechanical characteristics

| | | |
|---|---|---|
| Proof test | | ≥0.69GPa |
| Coating strip force (typical value) | | 1.5N |
| Dynamic stress corrosion susceptibility parameter (typical value) | | ≥20 |
| Macro-bend Loss | @850nm | ≤0.5dB |
| (100 turns,Φ75m) | @1300nm | ≤0.5dB |

■ Note: An inner mask (from 0 to 18μm) is used as defined in TIA/EIA-492 AAAC or IEC 60793-2-10, type A1a.2 (from 5 to 18μm)

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# Multi-Mode Fiber Series

A1b (62.5/125μm) multi-mode fiber

## A1b Fiber Characteristics

■ Optics Specifications

| | | Class A | Class B | Class C |
|---|---|---|---|---|
| Attenuation(dB/km) | @850nm | ≤2.80 | ≤3.00 | ≤3.00 |
| | @1300nm | ≤0.60 | ≤0.80 | ≤1.00 |
| Bandwidth(MHz.km) | @850nm | ≥200 | ≥160 | ≥160 |
| | @1300nm | ≥600 | ≥500 | ≥300 |
| Numerical aperture (NA) | | 0.275±0.015 | 0.275±0.015 | 0.275±0.015 |

■ Back scatter characteristics (@1300nm)

| | |
|---|---|
| Point discontinuity (average of bidirectional measurement) | ≤0.10dB |
| Attenuation uniformity | ≤0.10dB/km |
| Attenuation coefficient difference for bidirectional measurement | ≤0.10dB/km |

■ Geometrical characteristics

| | |
|---|---|
| Core diameter | 62.5±2.5μm |
| Core non-circularity | ≤6.0% |
| Cladding diameter | 125±2μm |
| Cladding non-circularity | ≤2.0% |
| Core/cladding concentricity error | ≤1.5μm |
| Coating diameter | 245±10μm |
| Coating/cladding concentricity error | ≤12.0μm |

■ Environmental characteristics @850nm & 1300nm

| | |
|---|---|
| Temperature induced attenuation(-60~+85°C) | ≤0.15dB/km |
| Dry heat induced attenuation (85°C±2°C,30 days) | ≤0.20dB/km |
| Water immersion induced attenuation (23°C±2°C, 30 days) | ≤0.20dB/km |
| Damp heat induced attenuation (85°C±2°C,RH85%,30 days) | ≤0.20dB/km |

■ Mechanical characteristics

| | | |
|---|---|---|
| Proof test | | ≥0.69GPa |
| Coating strip force (typical value) | | 1.4N |
| Dynamic stress corrosion susceptibility parameter (typical value) | | ≥20 |
| Macro-bend Loss | @850nm | ≤0.5dB |
| (100 turns, Φ 75m) | @1300nm | ≤0.5dB |



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# Single-Mode Fiber Series

A1a.2/OM3 (10GE) multi-mode fiber

## B1.1 Fiber Characteristics

■ Optics Specifications

| | | |
|---|---|---|
| Attenuation(dB/km) | @1310nm | ≤0.34 dB/km |
| | @1550nm | ≤0.20 dB/km |
| Dispersion | @1625nm | ≤0.24 dB/km |
| | @1550nm | ≤18ps/(nm•km) |
| Zero-Dispersion wavelength | | 1300-1324nm |
| Zero-Dispersion slope | | ≤0.092ps/(nm2•km) |
| Mode field diameter @ 1310nm | | 9.2±0.4μm |
| Mode field diameter @ 1550nm | | 10.4±0.8μm |
| PMD | Max. value for fiber on the reel | 0.2ps/km1/2 |
| | Max. designed value for link | 0.08ps/km1/2 |
| Cable cutoff wavelength, λcc | | ≤1260nm |
| Effective group index(Neff)@1310nm | | 1.4675 |
| Effective group index(Neff)@1550nm | | 1.4680 |
| Macro-bend loss(Φ60mm,100 turns)@1550nm | | ≤0.05dB |

■ Back scatter characteristics(@ 1310nm&1550nm)

| | |
|---|---|
| Point discontinuity | ≤0.05dB |
| Attenuation uniformity | ≤0.05dB/km |
| Attenuation coefficient difference for bi-directional measurement | ≤0.05dB/km |

■ Geometrical Characteristics

| | |
|---|---|
| Cladding diameter | 125±1μm |
| Cladding non-circularity | ≤1% |
| Core/ cladding Concentricity error | ≤0.4μm |
| Fiber diameter with coating (uncolored) | 245±5μm |
| Cladding /coating concentricity error | ≤12.0μm |
| Curl | ≥4m |
| Packing length | 2. 1km ~25.2km |

■ Mechanical characteristics

| | |
|---|---|
| Proof stress | 0.69GPa |
| Coating strip force(typical value) | 1.4N |
| Dynamic stress corrosion susceptibility parameter (typical value) | ≥20 |

■ Environmental characteristics(@ 1310nm & 1550nm)

| | |
|---|---|
| Temperature induced attenuation(-60~+85°C) | ≤0.05dB/km |
| Dry heat induced attenuation (85°C±2°C,30 days) | ≤0.05dB/km |
| Water immersion induced attenuation (23°C±2°C, 30 days) | ≤0.05dB/km |
| Damp heat induced attenuation(85°C±2°C,RH85%,30 days) | ≤0.05dB/km |

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# Single-Mode Fiber Series

B1.3 (G.652D) single mode fiber

## B1.3 Fiber Characteristics

| | | |
|---|---|---|
| ■ Optics Specifications | | |
| Attenuation(dB/km) | @1310nm | ≤0.34 dB/km |
| | @1383nm (after hydrogen aging) | ≤0.32 dB/km |
| | @1550nm | ≤0.20 dB/km |
| | @1625nm | ≤0.24 dB/km |
| Dispersion | @1285nm~1340nm | -3.0ps/(nm•km) ~3.0ps/(nm•km) |
| | @1550nm | ≤18 ps/(nm•km) |
| | @1625nm | ≤22 ps/(nm•km) |
| ■ Zero-Dispersion wavelength | | 1300~1324nm |
| Zero-Dispersion slope | | ≤0.092ps/(nm$^2$•km) |
| Mode field diameter @ 1310nm | | 9.2±0.4μm |
| Mode field diameter @ 1550nm | | 10.4±0.8μm |
| PMD | Max. value for fiber on the reel | 0.2ps/km1/2 |
| | Max. designed value for link | 0.08ps/km1/2 |
| Cable cutoff wavelength, λcc | | ≤1260nm |
| Effective group index(Neff)@1310nm | | 1.4675 |
| Effective group index(Neff)@1550nm | | 1.4680 |
| Macro-bend loss( Φ60mm,100 turns)@1550nm | | ≤0.05dB |
| ■ Back scatter characteristics(@ 1310nm&1550nm) | | |
| Point discontinuity | | ≤0.05dB |
| Attenuation uniformity | | ≤0.05dB/km |
| Attenuation coefficient difference for bi-directional measurement | | ≤0.05dB/km |
| ■ Geometrical Characteristics | | |
| Cladding diameter | | 125±1μm |
| Cladding non-circularity | | ≤1% |
| Core/ cladding Concentricity error | | ≤0.4μm |
| Fiber diameter with coating (uncolored) | | 245±5μm |
| Cladding /coating concentricity error | | ≤12.0μm |
| Curl | | ≥4m |
| ■ Mechanical characteristics | | |
| Proof stress | | 0.69GPa |
| Coating strip force (typical value) | | 1.4N |
| Dynamic stress corrosion susceptibility parameter (typical value) | | ≥20 |
| ■ Environmental characteristics(@ 1310nm & 1550nm) | | |
| Temperature induced attenuation(-60~+85°C) | | ≤0.05dB/km |
| Dry heat induced attenuation (85°C±2°C,30 days) | | ≤0.05dB/km |
| Water immersion induced attenuation (23°C±2°C, 30 days) | | ≤0.05dB/km |
| Damp heat induced attenuation (85°C±2°C,RH85%,30 days) | | ≤0.05dB/km |



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# Single-Mode Fiber Series

B4 (G.655) single mode fiber

## B4 (G.655) single mode fiber

| | | |
|---|---|---|
| ■ Optics Specifications | | |
| Attenuation(dB/km) | @1383nm | ≤0.4 dB/km |
| | @1550nm | ≤0.22 dB/km |
| | @1625nm | ≤0.24 dB/km |
| Attenuation vs. Wavelength Max.adifference(Ref λ=1550) | @1525nm~1575nm | ≤0.02 dB/km |
| | @1625nm | ≤0.03 dB/km |
| Dispersion | @1530nm~1565nm | 2.0ps/(nm•km)~6.0ps/(nm•km) |
| | @1565nm~1625nm | 4.5ps/(nm•km)~11.2ps/(nm•km) |
| PMD | Max. value for fiber on the reel | 0.1ps/km1/2 |
| | Max. designed value for link | 0.08ps/km1/2 |
| Mode field diameter @ 1550nm | | 9.6±0.4μm |
| Effective group index(Neff)@1550nm | | 1.468 |
| Effective group index(Neff)@1625nm | | 1.469 |
| Point discontinuity @1550nm | | ≤0.50dB |
| ■ Geometrical Characteristics | | |
| Cladding diameter | | 125.0±1.0μm |
| Cladding non-circularity | | ≤0.7% |
| Core/ cladding Concentricity error | | ≤0.5μm |
| Fiber diameter with coating (uncolored) | | 245±5μm |
| Cladding /coating concentricity error | | ≤12.0μm |
| Curl | | ≥4m |
| ■ Environmental characteristics(@ 1310nm & 1550nm) | | |
| Temperature induced attenuation(-60~+85°C) | | ≤0.05dB/km |
| Dry heat induced attenuation (85°C±2°C,30 days) | | ≤0.05dB/km |
| Water immersion induced attenuation (23°C±2°C, 30 days) | | ≤0.05dB/km |
| Damp heat induced attenuation (85°C±2°C,RH85%,30 days) | | ≤0.05dB/km |
| ■ Mechanical characteristics | | |
| Proof test | | 0.69GPa |
| Coating strip force (typical value) | | 1.4N |
| Dynamic stress corrosion susceptibility parameter (typical value) | | ≥20 |
| Macro-bend Loss (100 turns,(75m) | Φ32mm,1 turn | ≤0.50dB |
| | Φ60mm,100 turns | ≤0.50dB |

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# Single-Mode Fiber Series

B6.a (G.657A) single mode fiber

## A1b Fiber Characteristics

- Optics Specifications

| | | |
|---|---|---|
| Attenuation(dB/km) | @1310nm | ≤0.34 dB/km |
| | @1383nm | ≤0.32 dB/km |
| | @1550nm | ≤0.20 dB/km |
| | @1625nm | ≤0.24 dB/km |
| Dispersion | @1550nm | ≤18 ps/(nm•km) |
| | @1625nm | ≤22 ps/(nm•km) |
| Zero-Dispersion wavelength | | 1302nm~1322nm |
| Zero-Dispersion slope | | ≤0.089ps/(nm2•km) |
| Mode field diameter @ 1310nm | | 8.6±0.4μm |
| Mode field diameter @ 1550nm | | 9.8±0.8μm |
| PMD | Max. value for fiber on the reel | 0.2ps/km1/2 |
| | Max. designed value for link | 0.1ps/km1/2 |
| Cable cutoff wavelength, λcc | | ≤1260nm |

- Geometrical Characteristics

| | | |
|---|---|---|
| Cladding diameter | | 124.8±0.7μm |
| Cladding non-circularity | | ≤0.7% |
| Core/ cladding Concentricity error | | ≤0.5μm |
| Fiber diameter with coating (uncolored) | | 245±5μm |
| Cladding /coating concentricity error | | ≤12.0μm |
| Curl | | ≥4m |

- Mechanical characteristics

| | | |
|---|---|---|
| Proof stress | | 0.69GPa |
| Macro-bend loss @1550nm | Φ20mm,1 turn | ≤0.25dB |
| | Φ30mm,10 turns | ≤0.75dB |
| Macro-bend loss @1625nm | Φ20mm,1 turn | ≤1.5dB |
| | Φ30mm,10 turns | ≤1.0dB |

- Environmental characteristics(@ 1310nm & 1550nm)

| | |
|---|---|
| Temperature induced attenuation(-60~+85℃) | ≤0.05dB/km |
| Dry heat induced attenuation (85℃±2℃,30 days) | ≤0.05dB/km |
| Water immersion induced attenuation (23℃±2℃, 30 days) | ≤0.05dB/km |
| Damp heat induced attenuation(85℃±2℃,RH85%,30 days) | ≤0.05dB/km |



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# Appendix-B Color Identification

Color Identification for Fiber

## Color Identification for Fiber

Fiber shall be colored as per IEC-60793-2 and TIAIEIA-598-A standards

| Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Color | Blue | Orange | Green | Brown | Grey | White | Red | Black | Yellow | Violet | Rose | Aqua |

Note: 1. If fiber count is less than 12 in one tube, sequence should be selected successively starting from the 1st;

2. Special color coding is available upon customer's request

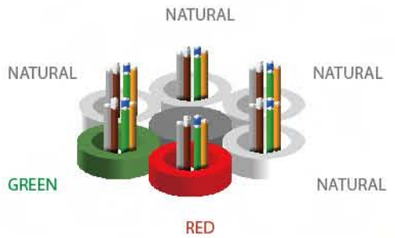
## Color Identification for Tube

Fiber shall be colored as per IEC-60793-2 and TIAIEIA-598-A standards

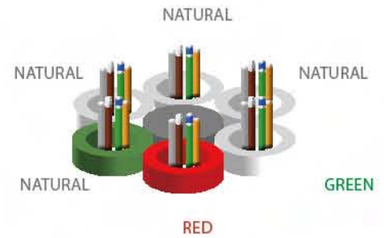
| Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Color | Red | Green | Natural | Natural | Natural | Natural | Natural | Natural | Natural | Natural | Natural | Natural |

Note: 1. If the cable contains filler(s), colored filler(s) are used as the pilot (elements of number 1, 2 are fillers) or colored tube as the pilot (elements of number 1, 2 are loose tubes);

2. Special color coding is available upon customer's request




A-end(cable inner end. red sealed)




B-end(cable inner end. red sealed)

## Color Identification for Fiber

All color identification as per TIAIEIA-598-A standard

| Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Color | Blue | Orange | Green | Brown | Grey | White | Red | Black | Yellow | Violet | Rose | Aqua |

Note: 1. If tube count is less than 12 in the cable, sequence should be selected successively starting from the 1st;

2. Special color coding is available upon customer's request

# Appendix-C FiberHome Fiber Optic Cable Index

## Outdoor Cable

Stranded Cable

- Metallic Strength Member Cable
  Loose Tube Stranded Cable with Aluminum Tape Armor Series (GYTA)
  Loose Tube Stranded Cable with Steel Tape Armor Series (GYTS)
  Loose Tube Stranded Direct-buried Cable Series (GYTY53; GYTA53)
  Loose Tube Stranded Direct-buried and Underwater Cable Series (GYTA33)
  Figure-8 Self-supporting Aerial Cable Series (GYTC8S)

- Non-metallic Strength Member Cable
  Loose Tube Stranded Metal-free Cable Series (GYFTY)
  Loose Tube Stranded Duct Cable Series (GYFY; GYFTA; GYFTS)
  Loose Tube Stranded Direct-buried Cable Series (GYFTY53; GYFTA53)
  Figure 8 Self-supporting Aerial Cable Series (GYFTC8Y)
  All-dielectric Self-supporting Cable Series ADSS (GYFTCY)

- Central Tube Cable
  Central Tube Cable Series (GYXTW; GYFXS)
  Central Tube Figure 8 Self-supporting Aerial Cable Series (GYXTC8S)

- Fiber Ribbon Cable
  Loose Tube Stranded Fiber Ribbon Cable Series (GYDTA)
  Central Tube Fiber Ribbon Cable Series (GYDXTW)

## Indoor Cable

- Tight Buffered Fiber (JV-1)
  Single-core Indoor Cable (GJFJV-1)
  Double-core Flat Cable (GJFJBV-I-2, GJFJBV-II-2)
  Double-core Indoor Cable (GJFJV-2)
  The Single-core Armored Cable (GYFJZS-1)
  Multi-core Indoor Bundle Cable (GJPFJV, GJPFJV-24)
  Flat Fiber Ribbon Cable (GJDFJV)
  Large Core Number Round Fiber Ribbon Cable (GJDFJV-144)

## FTTH Cable

- Bow Tie Shape Drop Cable (GJXV, GJXFH)
  Self-supporting Bow Tie Shape Drop Cable (GJYXFCH)
  Duct Bow Tie Shape Drop Cable (GJYPFH)
  Pavement Grooving Cable (Unitube-S)
  Unitube-F
  Wrapping Steel Indoor Cable (GJAJG02)
  Multi-core Break-Out Cable (GJBFJV, GJBFJV-24)
  Large Core Number Break-Out Cable (GJPFJV-36)
  Outdoor and Indoor Integration Free Mini Cable (MGFZA)

## Special Cable

- Opto-electronic Composite Cable (GDFTA)
  Figure 8 Opto-electronic Composite Cable (GDFJBV-2)
  Military Field Cable (GJPFJU)
  Multi-core Water-proof Pigtail Cable (GJJA-2~4)
  3G Zoom Cable (GJPFJU-12, GJBFJU)
  Air-blown Micro-Cable
  Rodent-resistant Cable
  UV Fiber Bundle Cable





# Appendix-D FiberHome Naming of Optical Fiber Cable

| I Symbol of type | II Symbol of strength member | III Symbol of derived structure features of cable core and cablemember | IV Code of sheath | V Symbol of protective covering |
|---|---|---|---|---|

### I Symbol of type

- GY-- communication cable for outdoor use
  GM--communication mobile-type cable
  GJ---communication cable for indoor use
  GS---communication cable for use inside equipment
  GH---communication cable for submarine use
  GT---communication cable for special use

### II Symbol of strength member

- The strength member refers to the member inside sheath or embedded into sheath for enhancing cable tensile strength.
  (No symbol) --- metallic strength member
  F---non-metallic strength member

### III Symbol of derived structure features of cable core and cable

- The cable structure features should represent the main types of cable core and the derived structure of cable. When the cable type includes several structure features, combination code can be used and arranged according to the following sequence:
  D----fiber ribbon structure;
  (no symbol)----loose tube structure;
  J----tight tube structure;
  (no symbol)---- layer stranded structure;
  G----slotted core structure;
  X----central tube structure;
  T----jelly filling structure;
  (no symbol)----dry water-blocking structure;
  R----air-blowing structure;
  C----self-supporting structure;
  B----flat shape;
  E----elliptic shape;
  Z----flame-retardant.

### IV Code of sheath

- Y----PE sheath
  V----PVC sheath
  U----Polyurethane sheath
  A----AL-PE sheath
  S----Steel-PE sheath
  W----Steel-PE sheath with embedded steel wire
  L----aluminum sheath
  G----steel sheath
  Q----lead sheath

### V Symbol of protective covering

- The protective covering may include part or all of bedding, armoring and outer jacket. The symbol includes two groups of numbers (bedding is not symbolized): the first group indicates armoring, which can be one or two-digit number, as showed in table 1; the second group indicates outer jacket, which is one-digit number.

| Symbol | Armoring type |
|---|---|
| 0 | No armoring |
| 2 | Double layer steel tape wrapped |
| 3 | Single layer fine round steel wire |
| 33 | Double layer fine round steel wire |
| 4 | Single layer thick round steel wire |
| 44 | Double layer thick round steel wire |
| 5 | Corrugated steel tape |

| Symbol | Outer jacket |
|---|---|
| 1 | Fiber jacket |
| 2 | PVC jacket |
| 3 | PE jacket |
| 4 | PE jacket plus nylon jacket |
| 5 | PE protection tube |

# Our Advantages

## Industry-leading R&D

There are 12,000 employees in FiberHome Technologies, including one academician of Chinese Academy of Engineering,8 state-class young and middle-aged experts with outstanding contributions and 22 members of ITU-T experts.

FiberHome has launched numerous researches and practices in cable materials characteristics, cable construction, manufacturing technology, measuring and testing techniques as well as lifespan of cable. In addition, FiberHome's unique method of precisely controlling and measuring the excess length of fiber in the cable ensures that the attenuation performance of the optical fiber is superior to that of the similar products.

FiberHome has been playing a dominant role in drafting more than 200 national and industry standards, including taking charge of compiling 3 international recommendations and 35 national standards. In recent years, FiberHome has presented more than 100 patent applications every year and owned over 500 authorized patents to its credit.

# Complete Manufacture Platform

A huge advantage we have over some other optic cable manufacturers is that our total production lines from optic fiber preform to the end product of a finished cable. We are therefore able to provide abundant and customized products for worldwide customers and monitor and assess quality throughout all stages of production.

The optical fiber provided by FiberHome can be divided into two major kinds, namely ordinary fiber and special fiber. The ordinary fiber includes multimode fiber used in gigabyte-Ethernet and single mode fiber such as G.652, G.655, etc. The special fiber includes dispersion compensation fiber, Er-doped fiber, Er-Yb co-doped fiber, polarization maintenance fiber, plastic fiber, etc. The research and manufacturing of the above products have reached the advanced level in the world and the products can meet the requirement of carriers and enterprises communications.

Aiming at various telecom operators, telecom companies and private network users, FiberHome can provide more than fifty varieties of communication cables of three major series, namely layer stranded series, slotted core series and central tube series, which are applicable to aerial, duct, direct-burial and underwater application and can meet the requirement of optical network connection at various levels such as backbone, metro, access, etc. FiberHome can also provide various kinds of special type optical cable such as fiber ribbon cable with large fiber count, ADSS cable, flame retardant cable, anti-rodent cable, anti-termite cable, non-metal cable, FTTx cable, indoor cable and so on.





# Test equipment and instrument of optic fiber and cable

FiberHome

Fiberhome Telecommunication Technologies Co. Ltd.











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