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Outdoor Cable Solution

FiberHome Technologies

FiberHome Technologies Group is a leading equipment vendor and a global solution provider in the field of information technology and telecommunications. This high-tech enterprise is directly affiliated to the State-owned Assets Supervision and Administration Commission of the State Council. It is also the largest optical communication systems to many countries around the world.



CONTENTS

Scenarios

Scenarios

Cable Series

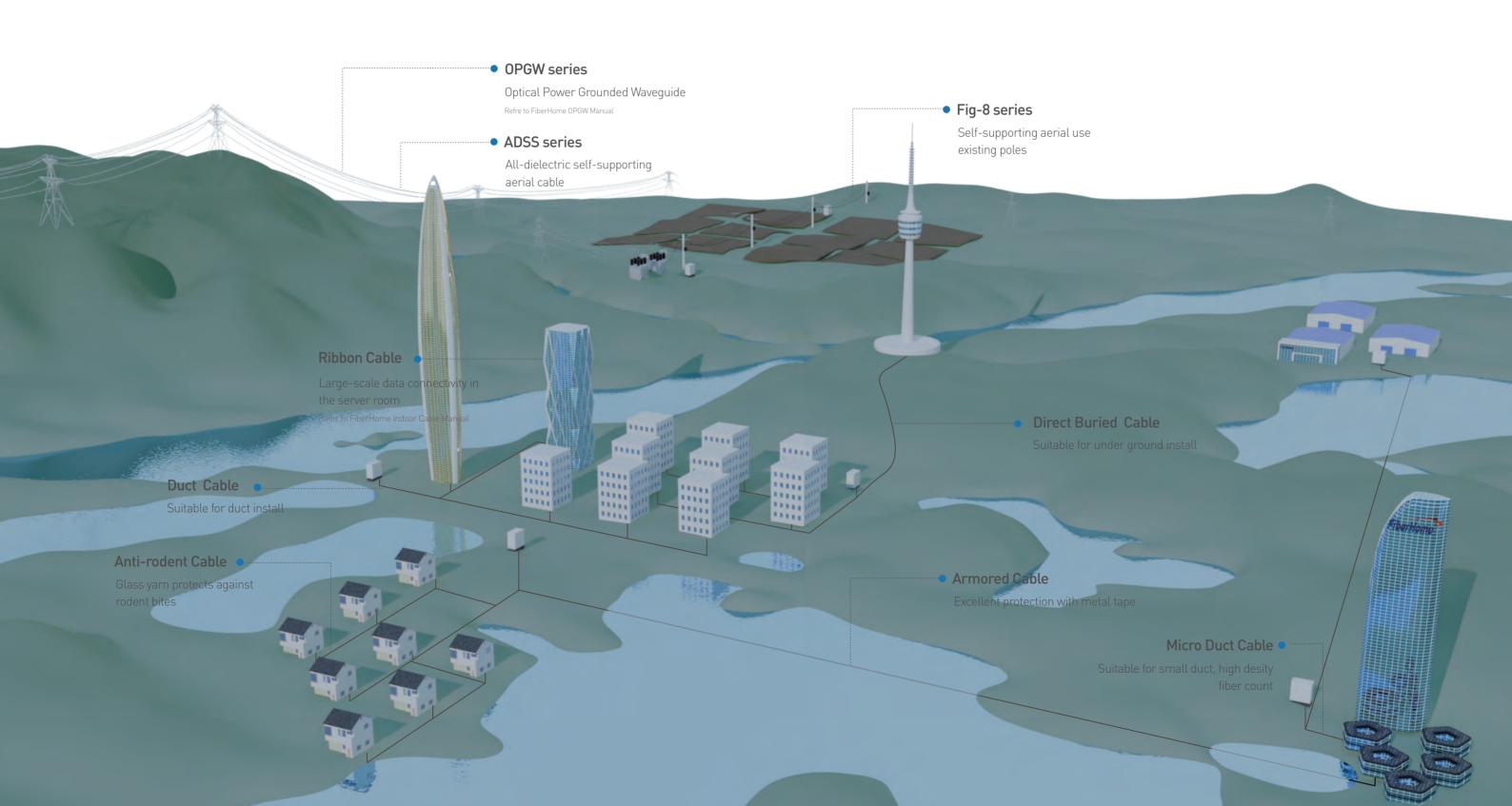
Full-dry Duct Cable	05
Gel-filled Duct Cable	00
All Dielectric Cable	07
Figure-8 Cable	00
Aramored Cable	09
Center Tube Cable	10
Strandard Ribbon Cable	1
Center Ribbon Cable	12
Micro Duct Cable	13
Anti-rodent Cable	14

Appendix

nvironmental	15
Applications	17
Customers Options	18
Symbols	19
Marking and Packing	20
Storage and Transportation	23
Accessories	24
Reference Standards	25
Clients	26

Scenarios

FiberHome Cable Application Scenarios



Full-dry Duct Cable

GYFY series

Gel-filled Duct Cable

GYFTY series





Features

- Max 864 core
- Full-dry loose tube, gel-free, jelly-free
- Light weight fiber optic cable, easy to construct



Applications

- Duct install
- Extreme low temperature environment: -40°C or below





Installation performance

- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation
 -30 ~ +60°C, operation -40 ~ +70°C





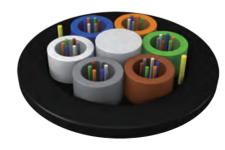
Features

- Max 864 core
- Moisture-proof and prevents water penetration
- All dielectric construction design
- Superior mechanical and environmental performance



Applications

Duct instation





- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation
 -20 ~ +60°C, operation -40 ~ +70°C



























All Dielectric Cable

GYFCY series

Figure-8 Cable

GYF8Y series









Max 288 core

Applications

of different environments

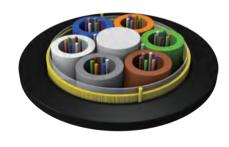
• Span 100m - 1600m

Features

• All dielectric self-support aerial cable

• Performance can be expanded according to the useage

- Aerial installation
- Duct installation





Installation performance

- Min bend radius: installation 20D, operation 15D
- Temperature range: storage -40 ~ +70°C, installation -20 ~ +60°C, operation -40 ~ +70°C
- Extremely cold region: storage -60 ~ +70°C, installation -40 ~ +60°C, operation -60 ~ +70°C





Features

- Max 192 core
- Messing wire self-support
- Span 50m 100m
- Easy construction and fast laying



Applications

Aerial installation





- Min bend radius: installation 20D, operation 15D
- Temperature range: storage -40 ~ +70°C, installation -20 ~ +70°C, operation -40 ~ +70°C

























Armored Cable

GYF53 series

Center Tube Cable

GYX series







Features

- Max 576 core
- Moisture-proof and prevents water penetration
- High desirable tensile strength and crush resistance
- Superior mechanical and environmental performance



Applications

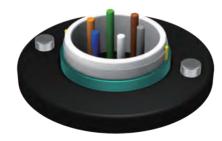
- Direct buried installation
- Under water installation



Installation performance

- Min bend radius: installation 25D, operation 15D
- Temperature range: storage -40 ~ +70°C, installation
 -20 ~ +60°C, operation -40 ~ +70°C







Features

- Max 24 core
- Flexible, lightweight, easy to handle & install
- Tightly controlled diameter
- Steel Armored for tensile and crush resistance



Applications

- Duct instllation
- Aerial drop



- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation
 -10 ~ +50°C, operation -20 ~ +70°C

























Strandard Ribbon Cable

GYFDA series

Center Ribbon Cable

GYDX series







Features

- Max 864 core
- Gel-filled buffer tubes, flexible, superior kink resistance
- Flat ribbon contains 12 colored fibers, easy to identify
- Precise fiber ribbon geometries and excellent mass fusion splicing
- Ribbon cable can be prepared and spliced more rapidly



Applications

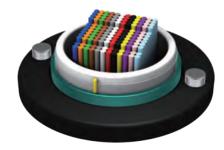
- Duct installation
- Direct buried installation



Installation performance

- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation -10 ~ +50°C, operation -20 ~ +70°C







Features

- Max 432 core
- Dry water blocking materials or gel-filled buffer inside and outside the loose tube
- Flat ribbon contains 12 or 24 colored fibers, easy to identify
- Precise fiber ribbon geometries and excellent mass fusion
- Ribbon cable can be prepared and spliced more rapidly



Applications

- Duct installation
- Direct buried installation



- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation -10 ~ +50°C, operation -20 ~ +70°C



























Micro Duct Cable

GCYFY series

Anti-rodent Cable

Special series







Features

- Max core 576
- Gel-free center loose tube all dielectric cable
- High fiber density and small cable diameter
- Air-blowing intallation in microduct
- Easy installation and maintenance



Applications

• Microduct air-blowing installation





Installation performance

- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation -10 ~ +50°C, operation -30 ~ +70°C







Features

- Max core 876
- Moisture-proof and prevents water penetration
- Superior anti-rodent performance
- High desirable tensile strength and crush resistance
- Customized longitudinal color strip



Applications

Duct installation



- Min bend radius: installation 20D, operation 10D
- Temperature range: storage -40 ~ +70°C, installation -10 ~ +60°C, operation -40 ~ +70°C





























- Reducing energy consumption by 694 tons of standard coal through energy saving and emission reduction
- Reduction of greenhouse gas (CO₂) emissions by 2,719 tons
- Disposing 4.88 tons of HW06 waste organic solvents and waste containing organic solvents in 2020
- Disposing 8.1 tons of waste circuit boards (HW49) and 25.14 tons of other waste (HW49) in 2020
- Recycling waste water from production which can save about 360,000 tons of water every year
- Packaging products with environmentfriendly materials which can be reused and degraded naturally

Solar power panel array at FiberHome R&D Center rooftop and phase II parking lot

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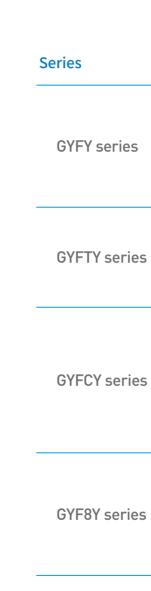
Applications

Air Blowing

☐ Customers Options

GYX series	P10
Outdoor/indoor Unitube cable	
GCYFY series	P13
Air-blow micro cable	
Areial	
GYFCY series	P07
ADSS cable	. 07
GYF8Y series	DOO
	P08
Figure 8 self-supporting cable	
Direct Buried	
GYFY53 series	P09
Double-layer, doube corrugated metal ta	аре
armored, stranded loose tube cable	
Specil series	P14

Duct Duct	
GYFY series All dielectric, stranded loose tube cable	P05
GYFTY series All dielectric, gell-filled stranded loose tube cable	P06
GYX series Outdoor/indoor Unitube cable	P10
GYFDA series Corrugated metal tape armored, stranded loose tube ribbon cable	P11
GYDX series Corrugated metal tape armored, center tube ribbon cable	P12
GCYFY series Air-blow micro cable	P13







Options

- Half-dry (gel-filled loose tube)
- No armor / single armor (FRP tape / flat FRP / aluminum tape / steel tape / armind yarn / glass yarn)
- Color idetification line (longitudinal color strip)
- No armor / single armor (FRP tape / flat FRP / aluminum tape / steel tape / armind yarn / glass yarn)
- Color idetification line (longitudinal color strip)
- Full-dry
- Single armind yarn and sheath / double aramid yarn and double sheath
- Glass yarn
- Color idetification line (longitudinal color strip)
- Full-dry
- No armor / single armor (FRP tape / flat FRP / aluminum tape / steel tape / armind yarn / glass yarn)
- Color idetification line (longitudinal color strip)
- GYF53 series
- Single metal armor / double metal armor (aluminum tape / steel tape / steel wire)
- Color idetification line (longitudinal color strip)

• Products can be customized, included but not limited to the above

Double-layer, doube round wire armored,

stranded loose tube cable

• Cable diagram not to scale

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Customers Options

Symbols

Series

GYX series

Options

- Full-dry
- No armor / single armor (aluminum tape / steel tape / armind yarn / glass yarn)
- Color idetification line (longitudinal color strip)

GYFDA series



- Single armor (aluminum tape / steel tape)
- No armor / single armor / double aramor (FRP tape / armind yarn / glass yarn / aluminum tape / steel tape /)
- Color idetification line (longitudinal color strip)

GYDX series



- Full-dry
- Single armind yarn and sheath / double aramid yarn
- Color idetification line (longitudinal color strip)

GCYFY series



- Full-dry
- No armor / single non-metal armor (armind yarn / glass
- Color idetification line (longitudinal color strip)

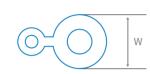
Specil series

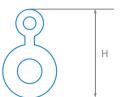


- Full-dry
- Single glass tape armor / FRP armor (round FRP / flat FRP)
- Color idetification line (longitudinal color strip)

Cable Cross Section







Applications











High-voltage Tower

Installations









Direct Buried





Fast Connector

Features



Flexible





Abrasion Resistance



Hi-crush Resistance



Low Friction



Eco-friendly



Easy Strip

Flame Retardant



Water Blocking



Anti-lighting Strike







Low Temperature

[•] Products can be customized, included but not limited to the above

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■ Marking and Packing

Marking and Packing

Cable Marking

The outer sheath is marked in 1 meter intervals as follows:



Note: Telephone symbol $olimits_{\sim}$, laser symbol $olimits_{\sim}$

Color Identification Line

Color identification lines are horizontal lines molded integrally with the outer sheath during the manufacture process. Identification lines can be customized in color or quantity.



A sample of aluminum tape armored cable with red identification line

Cable Length

Standard length: 4000m per reel

Tolerance: \pm 1%

Drum Type

Each length of the cable shall be wound on a separate iron wooden reel.

The arbor holes provided in the reels shall be approximately 105 mm with a wood or steel hub in the arbor hole (in lieu of fiberboard).

Drum Marking

Details given below shall be distinctly marked with a weather-proof material on both outer sides of the reel flange:

Purchaser

Reel number

Manufacturer

Year

Arrow showing the direction the drum shall be rolled

Cable End Retaining Methods

Iron wooden reel: Inner retaining

Wooden reel: Outer retaining recommended, inner retaining or groove retaining available.



Wooden Drum



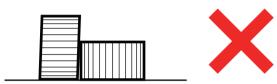
Steel-frame Drum

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▼ Storage and Transportation

Accessories

Storage









Do NOT lying or reclining

Place vertically and set up blocks

Transportation



Do NOT transportation in rolling direction



Transportation in a non-rolling direction

Accessories for Traditional Cable and OPGW Cable



Tension Assembly



Suspension Assembly



Cable Storage



Vibration Damper



Downlead Clamp



Joint Box

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■ Reference Standards



ASTM D1248-12	Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable
ASTM D3916-08	Standard Test Method for Tensile Properties of Pultruded Glass-Fiber-Reinforced Plastic Rod
EN 50290-2-27	Communication cables. Halogen free flame retardant thermoplastic sheathing compounds
ELOT EN 61034	Measurement of smoke density of cables burning under defined conditions
ELOT EN 50575	Cables for general applications in construction works subject to reaction to fire requirements
GR-409-CORE	Generic Requirements for Indoor Fiber Optic Cable
IEC 60332	Tests on Electric and Optical Fibre Cables under Fire Conditions
IEC 60754	Tests on Gases Evolved during Combustion of Materials from Cables
IEC 60794-1	Optical Fibre Cables - Generic Specification - Basic Optical Cable Test Procedures
IEC 60794-3	Optical Fibre Cables - Generic Specification - Outdoor cables - Sectional Specification
IEC 60794-4	Optical Fibre Cables - Generic Specification - Outdoor cables - Aerial optical cables along electrical power lines
IEC 60794-5	Optical Fibre Cables - Generic Specification - Outdoor cables - Microduct cabling for installation by blowing
IEC 60794-6	Optical Fibre Cables - Generic Specification - Indoor-outdoor cables - Sectional specification for indoor-outdoor cables
UL1581	UL Standard for Safety Reference Standard for Electrical Wires, Cables, and Flexible Cords

