NEXFIRA
Optical Fiber & Connectivity

Product Catalog

OPTICAL FIBER & CABLE PRODUCT CATALOG

Technology that connects the future — NEXFIRA Co., Ltd.
delivers faster, more reliable connections.

Global Connectivity
Worldwide reach

Reliable Quality
Trusted quality

Advanced Technology
Latest technology

Customer Success
Your success

Sole & Exclusive Distributor in Korea

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Product Line-up

PRODUCT LINE-UP

Structure of this catalog and the optical fiber & cable products included.

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Manufacturing partner

MANUFACTURING PARTNER

Our manufacturing partner, established in December 2020, is a specialist producer of optical communication cables with its plant located in an economic and technological development zone in Hubei Province, China. Within about four years it has grown to annual sales of roughly RMB 300 million. Its core business covers the R&D, manufacturing and sales of communication optical cables and related products, together with indoor soft optical cable series and phosphated steel wire.

Products are supplied to provinces, cities and counties across China and exported worldwide. As a high-tech enterprise integrating R&D, production and sales, it is recognised as a National High-tech Enterprise of China and operates an ISO 9001:2015 quality management system. It is a dedicated FiberHome manufacturer in which FiberHome (烽火通信) holds an 18% equity stake. NEXFIRA Co., Ltd. is its sole and exclusive distributor in the Republic of Korea.

Manufacturing partner production base

◆ Company facts

Established December 2020

Location Economic & technological development zone, Hubei, China

Annual sales approx. RMB 300 million

ISO 9001:2015 · National High-tech Enterprise · 18% FiberHome equity

◆ Corporate culture

Business philosophy

Integrity-based, service is eternal · Pioneering, innovating and continuously improving

Core strategy

Stick to the industry and cultivate the main business in depth.

Vision

Builder of the digital economy — laying the foundation of communication infrastructure.

Core values

Make better products · Exceed customer needs and expectations · Innovate, learn and share · Let customers and employees grow together

Core advantages & facilities

CORE ADVANTAGE & FACILITIES

01 Effect of scale

A large-scale production system with a monthly capacity of 1.3 million F·km. A complete raw-material industry cluster around the plant secures a stable supply advantage.

02 Location advantage

Adjacent to the provincial metropolitan area, enabling fast and convenient shipping nationwide with a clear transport-cost advantage.

03 Stable capacity

With an annual capacity of 15 million F·km, large projects and long-term supply contracts can be handled reliably.

04 Technical capability

One of the few factories in China able to produce multiple types of international-standard optical cables. A complete quality-management and testing capability plus a lean manufacturing and management organisation give a clear cost advantage.

◆ Production facilities

The plant features a professional optical-cable manufacturing workshop, advanced automated production lines, a waste collection and treatment system and an ERP management system. Under a lean production philosophy it pursues continuous technical upgrades, operating 22 complete production lines — coloring, loose-tube, stranding, sheathing, armored stranding, indoor cable and filler rope — upgraded from manual to fully automatic take-up. In 2022 more than RMB 20 million was invested in upgrading multiple production lines.

50+	22	1.3M F·km / month	15M F·km / year
Technical professionals	Complete production lines	Monthly capacity	Annual capacity

Automated production line

Main product series

PRODUCT SERIES

A rich product structure and production capacity covering almost all optical-cable specifications and models (38 models) support a comprehensive service.

Manufacturing partner production base

ADSS optical cable

ADSS OPTICAL CABLE

Indoor soft optical cable

INDOOR SOFT OPTICAL CABLE

OPGW optical cable

OPGW OPTICAL CABLE

Phosphated steel wire & other products

VARIOUS PRODUCTS SUCH AS PHOSPHATED STEEL WIRE

◆ Producible models (38)

GYTA	GYTS	GYTA53	GYTS53
GYTZA	GYTZS	GYTZA53	GYTA33
GYTAH58	GYTAH68	GYXTW	GYXTS
GYDTA	GYTC8A	GYTC8S	GYFTY
GYFTA	GYFTS	GYFTZY	GYFTY53
GYFTY63	GYFTA53	GYFTZY63	GYFTC8Y
GYFTC8F	GYFXTC8F	GYFC8A	GYFTAH58
GYCFHTY	ADSS	FADSS	OPGW
GJXFH	GJXH	GJIXFH	GJIXH
GJBFJH	GJPFJH		

+ Beyond the 38 models above, other specifications can be designed and produced to customer requirements. Tell us your fiber count, span, sheath material and other conditions and we will propose the optimal specification.

Exclusive distributor in Korea

SOLE & EXCLUSIVE DISTRIBUTOR

NEXFIRA Co., Ltd. is the sole and exclusive distributor of the manufacturing partner in the Republic of Korea, responsible for import, sales, distribution, technical support and after-sales service. All inquiries and orders in Korea are handled by NEXFIRA, and every product supplied by NEXFIRA is genuine and covered by the manufacturer's warranty and factory technical support. The manufacturing partner is a dedicated FiberHome manufacturer in which FiberHome holds an 18% equity stake.

NEXFIRA = Sole & Exclusive Distributor of the Manufacturer in Korea

Sole and Exclusive Distributor of the Manufacturer in the Republic of Korea

All of Korea	Genuine products	Factory tech support	Certificate · MOU on file
Territory	Warranty	After-sales support	Evidence

◆ DISTRIBUTORSHIP SUMMARY

Territory	The entire territory of the Republic of Korea
Products	Single-mode optical fiber (G.652.D / G.657, sourced and distributed by the manufacturer), outdoor optical cables (GYTA / GYTS / GYFTY etc.), ADSS / OPGW, indoor & FTTH drop cables, other manufacturer cable products
Authorised acts	Import, sales, distribution and promotion in Korea, tender participation, technical support and after-sales service, use of the manufacturer's name and trademarks in marketing
Warranty	Genuine products — manufacturer's warranty and factory technical support apply
Evidence	Certificate of Exclusive Distributorship and MOU between both companies on file — redacted copies available separately; originals may be viewed after signing an NDA

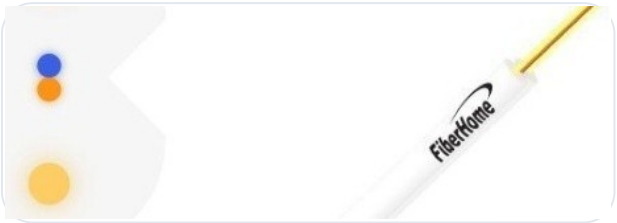
About this document Notice

This catalog has been prepared by NEXFIRA Co., Ltd., the sole and exclusive distributor in Korea of the manufacturing partner, by reorganising the manufacturer's materials for customer guidance. The manufacturer's name, address, contact details and registration numbers are withheld to protect our business and are provided separately after signing an NDA. Unauthorised copying or distribution of this document is prohibited.

Butterfly drop cable for access network GJXFH

BUTTERFLY-SHAPED OPTICAL CABLE FOR ACCESS NETWORK

Non-metallic strength member · LSZH sheath | 1–4 fibers, G.657A fiber, excellent bend performance, field-terminable



Appearance and cross-section

Application	Indoor installation in vertical shafts, embedded ducts, cable trays, walls and ceilings
Operating temperature	-20°C ~ +60°C
Product standard	YD/T 1997

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GJXFH	1~4	2.0×3.0	9	—	—	100	60	1000	500

Butterfly drop cable for access network GJXH

BUTTERFLY-SHAPED OPTICAL CABLE FOR ACCESS NETWORK

Metallic strength member · LSZH sheath | 1–4 fibers, G.657A fiber, excellent bend performance, field-terminable

Appearance and cross-section

Application	Indoor installation in vertical shafts, embedded ducts, cable trays, walls and ceilings
Operating temperature	-20°C ~ +60°C
Product standard	YD/T 1997

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GJXH	1~4	2.0×3.0	9	—	—	200	100	2200	1000

Invisible drop cable for access network GJIXFH

INVISIBLE DROP OPTICAL CABLE FOR ACCESS NETWORK

Non-metallic strength member · LSZH sheath | Transparent appearance for neat, unobtrusive wiring

Appearance and cross-section

Application	Indoor invisible (concealed) wiring
Operating temperature	-20°C ~ +60°C
Product standard	YD/T 1997

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GJIXFH	1	2.0×3.0	10	—	—	100	60	1000	500

Invisible drop cable for access network GJIXH

INVISIBLE DROP OPTICAL CABLE FOR ACCESS NETWORK

Metallic strength member · LSZH sheath | Transparent appearance for neat, unobtrusive wiring

Appearance and cross-section

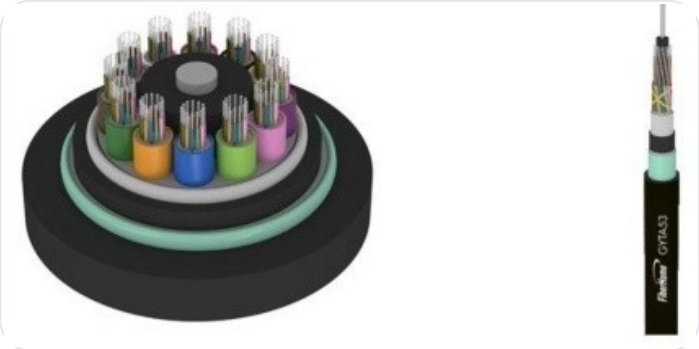
Application	Indoor invisible (concealed) wiring
Operating temperature	-20°C ~ +60°C
Product standard	YD/T 1997

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GJIXH	1	2.0×3.0	10	—	—	200	100	2200	1000

Layer-stranded direct buried optical cable GYTA53

LAYER-STRANDED DIRECT BURIED OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core, aluminum-PE inner sheath, corrugated steel tape armor and PE outer sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Direct buried
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 High-quality optical fiber and FiberHome's mature ribbon manufacturing process ensure excellent transmission performance
02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics
03 Strict process and raw-material control guarantees stable use for more than 30 years
04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance
05 Special jelly filling in the loose tubes provides core protection for the fibers
06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire
07 Ribbon cable offers high fiber density, easy installation, identification and branching, shorter splicing time, easier maintenance and lower overall project cost
08 Widely used in access networks (especially FTTC/FTTB), inter-office trunks and CATV networks

◆ Specifications

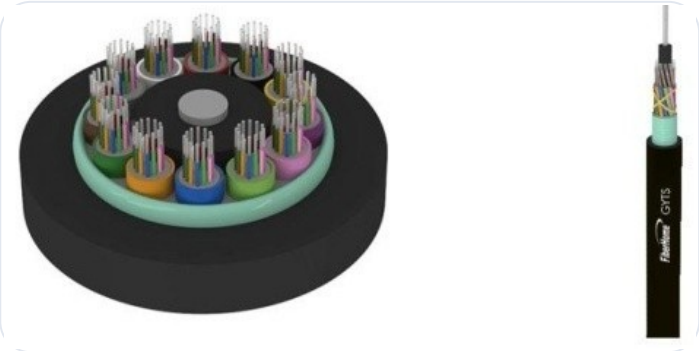
Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTA53	2-36	13.9	202	6	6	3000	1000	3000	1000
	38-72	15.1	241	12	6	3000	1000	3000	1000
	74-96	17.1	290	12	8	3000	1000	3000	1000
	98-120	18.6	333	12	10	3000	1000	3000	1000
	122-144	20.2	381	12	12	3000	1000	3000	1000
	Above 144 fibers	Designed to customer requirements							

※ Max. fibers per unit: maximum fiber count per loose tube / Short / Long: allowable tensile and crush force basis

Steel tape wrapped layer-stranded optical cable GYTS

STEEL TAPE LONGITUDINALLY WRAPPED LAYER-STRANDED OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core and steel-PE bonded sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct, aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

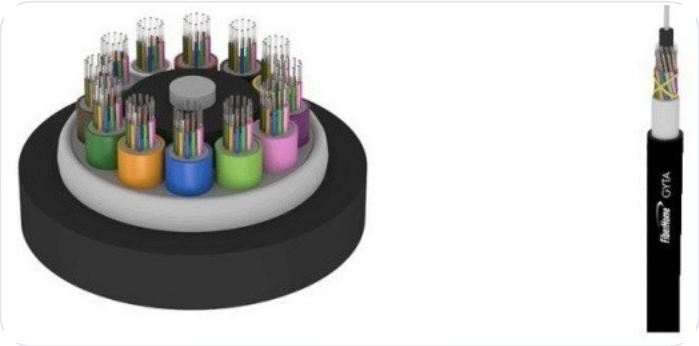
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTS	2-30	9.2	83.8	6	5	1500	600	1000	300
	32-36	9.9	106.9	6	6	1500	600	1000	300
	38-60	11	116.8	12	5	1500	600	1000	300
	62-72	12	135.2	12	6	1500	600	1000	300
	74-96	14.4	194.2	12	8	2000	600	1000	300
	98-120	16.1	235	12	10	2000	600	1000	300
	122-144	18.1	287.7	12	12	2500	600	1000	300
	146-216	18.7	319.6	12	18	2500	600	1000	300
	218-288	21.2	383.9	12	24	3000	600	1000	300

Aluminum tape wrapped layer-stranded optical cable GYTA

ALUMINUM TAPE LONGITUDINALLY WRAPPED LAYER-STRANDED OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core and aluminum-PE bonded sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct, aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

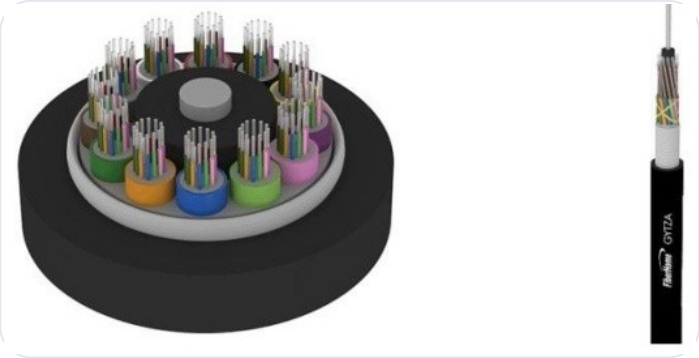
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTA	2-30	9.2	72.7	6	5	1500	600	1000	300
	32-36	9.9	94.6	6	6	1500	600	1000	300
	38-60	11	103.4	12	5	1500	600	1000	300
	62-72	12	119.4	12	6	1500	600	1000	300
	74-96	13.6	158.8	12	8	1500	600	1000	300
	98-120	15.3	191.8	12	10	1700	600	1000	300
	122-144	16.9	229.3	12	12	2000	600	1000	300
	146-216	17.1	249.3	12	18	2000	600	1000	300
	218-288	19.6	303.3	12	24	2500	600	1000	300

Aluminum tape wrapped layer-stranded flame-retardant optical cable GYTZA

ALUMINUM TAPE LONGITUDINALLY WRAPPED LAYER-STRANDED FLAME-RETARDANT OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core and aluminum-PE bonded LSZH flame-retardant sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct, aerial
Operating temperature	-40°C ~ +70°C

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

07 Special sheath material provides excellent flame-retardant performance

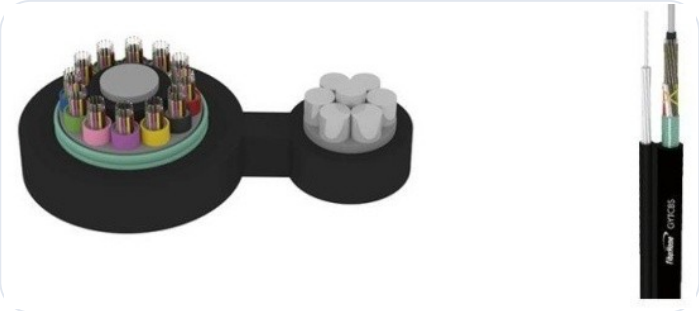
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTZA	2-30	9.2	93.5	6	5	1500	600	1000	300
	32-36	9.9	116.6	6	6	1500	600	1000	300
	38-60	11	128.8	12	5	1500	600	1000	300
	62-72	12	147.5	12	6	1500	600	1000	300
	74-96	13.6	191.1	12	8	1500	600	1000	300
	98-120	15.3	217.4	12	10	1700	600	1000	300
	122-144	16.9	229.3	12	12	2000	600	1000	300
	146-216	17.1	342.4	12	18	2000	600	1000	300
	218-288	19.6	410.8	12	24	2500	600	1000	300

Figure-8 self-supporting optical cable GYTC8S

FIGURE-8 SELF-SUPPORTING OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core, steel-PE bonded sheath and figure-8 self-supporting structure



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Self-supporting aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

07 Longitudinally wrapped steel tape strengthens crush resistance

08 Figure-8 self-supporting structure gives high tensile strength, easy aerial installation and lower installation cost

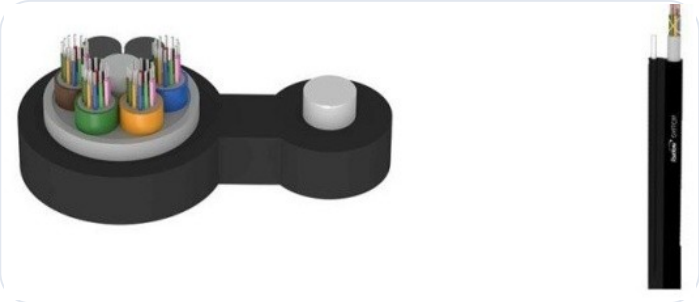
◆ Specifications

Cable type	Fiber count	Size (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTC8S	2-30	10.0×18.0	220	6	5	7000	4000	1000	300
	32-36	10.7×18.7	244	6	6	7000	4000	1000	300
	38-60	11.4×19.4	253	12	5	7000	4000	1000	300
	62-72	12.0×20.0	280	12	6	7000	4000	1000	300
	Above 72 fibers	Designed to customer requirements							

Figure-8 self-supporting layer-stranded non-metallic optical cable GYFTC8F

FIGURE-8 SELF-SUPPORTING LAYER-STRANDED NON-METALLIC OPTICAL CABLE

Outdoor communication cable with non-metallic strength member, loose-tube layer-stranded filled core, PE bonded sheath and figure-8 self-supporting structure



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Self-supporting aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Figure-8 self-supporting structure gives high tensile strength, easy aerial installation and lower installation cost

◆ Specifications

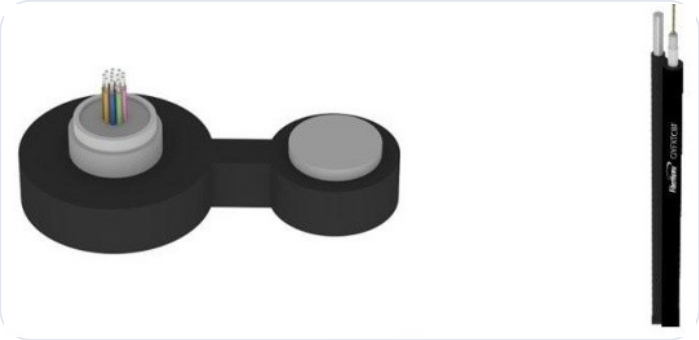
Cable type	Fiber count	Size (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYFTC8F	24	5.4×16.8	960.9	6	4	6000	3000	1000	300
	48	5.4×17.6	1110.8	12	4	6000	3000	1000	300

※ Weight values are as stated in the original catalog

Figure-8 self-supporting central-tube non-metallic optical cable GYFXTC8F

FIGURE-8 SELF-SUPPORTING CENTRAL TUBE NON-METALLIC OPTICAL CABLE

Outdoor communication cable with non-metallic strength member, central-tube filled core, PE bonded sheath and figure-8 self-supporting structure



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Self-supporting aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Figure-8 self-supporting structure gives high tensile strength, easy aerial installation and lower installation cost

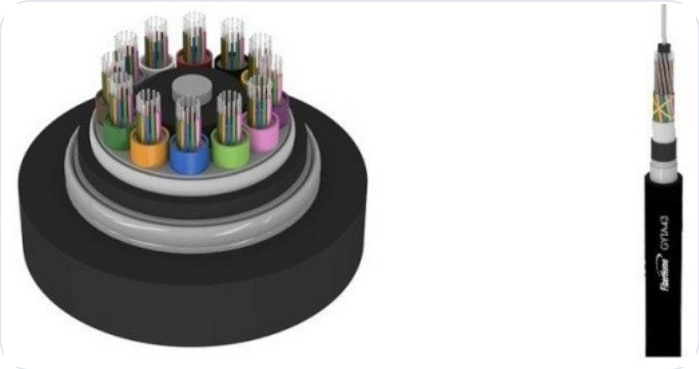
◆ Specifications

Cable type	Fiber count	Size (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYFXTC8F	6	7.1×13.9	82	6	1	1500	750	1000	300
	8	7.1×13.9	83	8	1	1500	750	1000	300
	12	7.1×13.9	84	12	1	1500	750	1000	300

Stainless steel tape armored layer-stranded direct buried optical cable GYTA43

STAINLESS STEEL TAPE ARMORED LAYER-STRANDED DIRECT BURIED OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core, aluminum-PE inner sheath, stainless steel tape armor and PE outer sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Direct buried
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

07 Stainless steel tape armor provides excellent crush resistance together with rodent and bird-peck protection

◆ Specifications

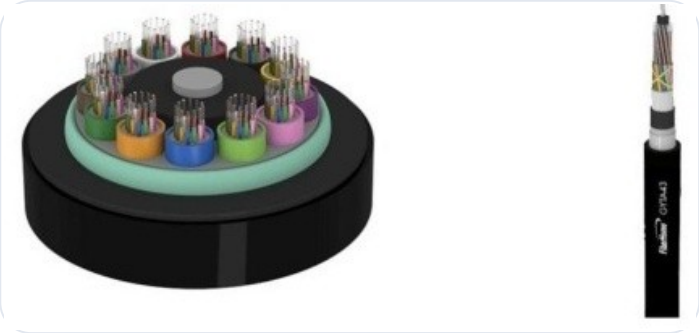
Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTA43	2-36	13.4	171.8	6	6	3000	1000	3000	1000
	38-72	15.8	237.5	12	6	3000	1000	3000	1000
	74-96	18	282.4	12	8	3000	1000	3000	1000
	98-120	20.4	346.9	12	10	3000	1000	3000	1000
	122-144	21.8	392.5	12	12	3000	1000	3000	1000
	Above 144 fibers	Designed to customer requirements							

※ *The tube count "0" for 98–120 fibers in the original catalog appears to be a typo and is shown as 10.*

Layer-stranded anti-termite optical cable GYTS04

LAYER-STRANDED ANT-PROOF OPTICAL CABLE

Outdoor rodent-proof communication cable with metallic strength member, loose-tube layer-stranded filled core, steel-PE bonded outer sheath and nylon jacket



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

07 Special nylon jacket provides anti-termite and anti-rodent protection

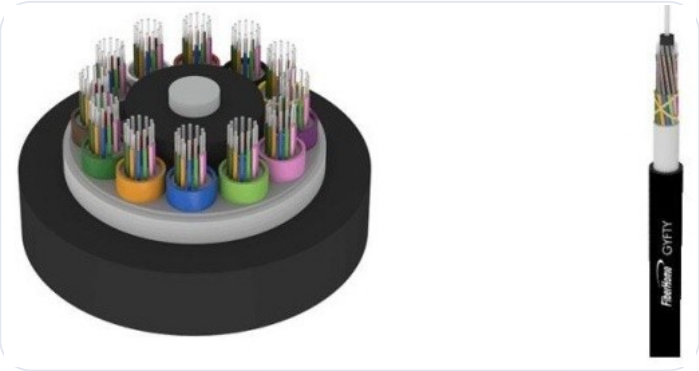
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTS04	2-30	10.1	89	6	5	1500	600	1000	300
	32-36	10.7	99	6	6	1500	600	1000	300
	38-60	10.6	98	12	5	1500	600	1000	300
	62-72	11.0	129	12	6	1500	600	1000	300
	74-96	12.4	152	12	8	1500	600	1000	300
	98-120	14.0	192	12	10	1500	600	1000	300
	122-144	15.1	217	12	12	1500	600	1000	300
	146-216	15.9	245	12	18	1500	600	1000	300
	218-288	18.4	308	12	24	1500	600	1000	300

Layer-stranded non-metallic optical cable GYFTY

LAYER-STRANDED NON-METALLIC OPTICAL CABLE

Outdoor communication cable with non-metallic strength member, loose-tube layer-stranded filled core and PE bonded sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct, aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of high-modulus FRP (fiber-reinforced plastic)

07 All-dielectric non-metallic structure: lightweight, easy to install, strong EMI immunity — suitable for power systems and lightning-prone areas

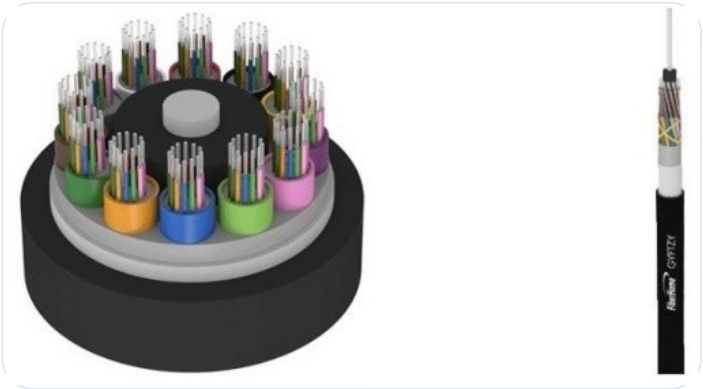
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYFTY	2-36	10.6	82.6	6	6	1500	600	1000	300
	38-72	11.3	92.5	12	6	1500	600	1000	300
	74-96	13	120	12	8	1500	600	1000	300
	98-144	16.2	190	12	12	1500	600	1000	300
	146-216	18.9	262.2	12	24	1500	600	1000	300
	Above 216 fibers	Designed to customer requirements							

Layer-stranded non-metallic optical cable GYFTZY (GYFHTH)

LAYER-STRANDED NON-METALLIC OPTICAL CABLE

Outdoor communication cable with non-metallic strength member, loose-tube layer-stranded semi-dry core and LSZH flame-retardant polyolefin sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of high-modulus FRP

07 Special sheath material gives excellent flame-retardant performance

08 All-dielectric (non-metallic) structure: lightweight, easy to install, strong EMI immunity — suitable for power systems and lightning-prone areas

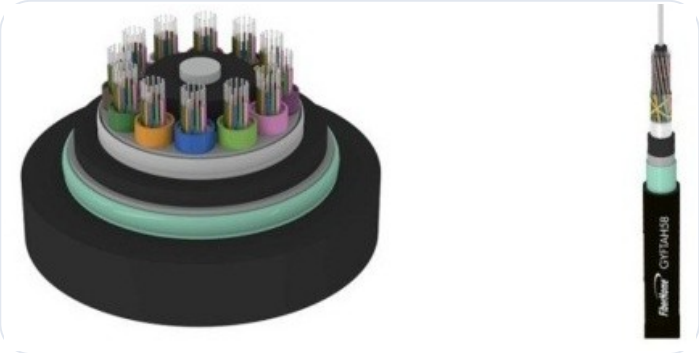
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYFTZY	2-36	10.9	120	6	6	1500	600	1000	300
	38-72	11.5	132	12	6	1500	600	1000	300
	74-96	13	165	12	8	1500	600	1000	300
	Above 96 fibers	Designed to customer requirements							

Layer-stranded non-metallic central strength member direct buried optical cable GYFTAH58

LAYER-STRANDED NON-METALLIC CENTRAL STRENGTH MEMBER DIRECT BURIED OPTICAL CABLE

Outdoor communication cable with non-metallic strength member, loose-tube layer-stranded filled core, aluminum-LSZH flame-retardant polyolefin bonded sheath, longitudinally wrapped corrugated steel tape armor and LSZH flame-retardant polyolefin outer sheath



Appearance and cross-section

Application	Subways and tunnels, long-distance and inter-office communication
Installation	Direct buried, trough
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of high-modulus FRP

07 Double-side-coated corrugated steel tape armor effectively improves crush resistance

08 Special sheath material gives excellent flame-retardant performance

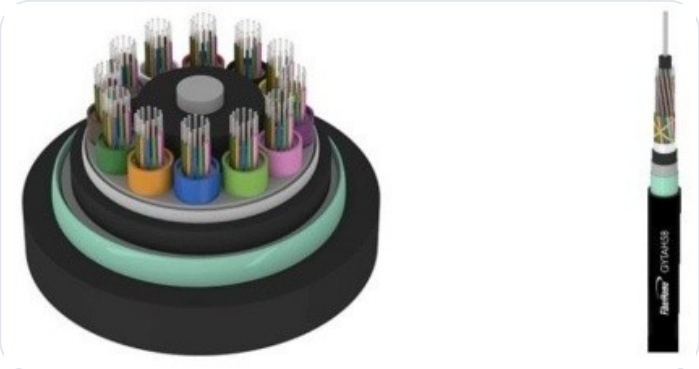
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYFTAH58	2-36	14.2	214	6	6	3000	1000	3000	1000
	38-72	15.4	240	12	6	3000	1000	3000	1000
	74-96	17.4	305	12	8	3000	1000	3000	1000
	98-120	18.8	347	12	10	3000	1000	3000	1000
	122-144	20.8	429	12	12	3000	1000	3000	1000
	Above 144 fibers	Designed to customer requirements							

Layer-stranded direct buried flame-retardant optical cable GYTAH58

LAYER-STRANDED DIRECT BURIED FLAME-RETARDANT OPTICAL CABLE

Outdoor communication cable with metallic strength member, loose-tube layer-stranded filled core, aluminum-LSZH flame-retardant polyolefin bonded sheath, longitudinally wrapped corrugated steel tape armor and LSZH flame-retardant polyolefin outer sheath



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Direct buried, trough
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of corrosion-resistant, high-modulus phosphated steel wire

07 Double-side-coated corrugated steel tape armor effectively improves crush resistance

08 Special sheath material gives excellent flame-retardant performance

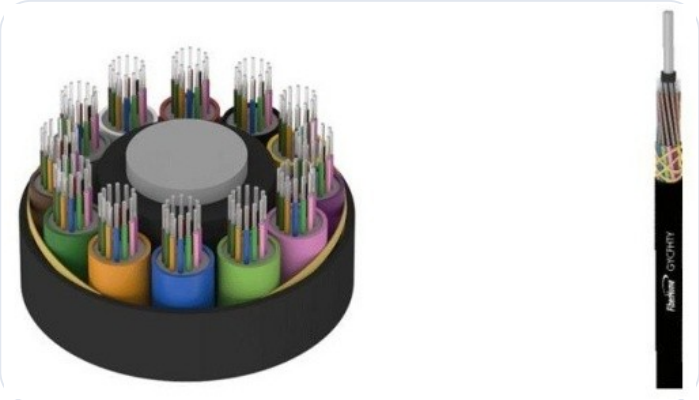
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYTAH58	2-36	13.2	204	6	6	3000	1000	3000	1000
	38-60	13.1	194	12	5	3000	1000	3000	1000
	62-72	13.4	208	12	6	3000	1000	3000	1000
	74-96	15.2	256	12	8	3000	1000	3000	1000
	98-120	16.4	284	12	10	3000	1000	3000	1000
	122-144	18.1	346	12	12	3000	1000	3000	1000
	Above 144 fibers	Designed to customer requirements							

Air-blown micro optical cable GYCFHTY

AIR-BLOWN MICRO OPTICAL CABLE

Outdoor air-blown micro communication cable with non-metallic strength member, loose-tube layer-stranded semi-dry core and PE sheath



Appearance and cross-section

Application	Access and metro networks
Installation	Duct (microduct)
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 Small, lightweight design with high fiber packing density

02 Excellent air-blown installation performance

03 Excellent temperature characteristics for a wide range of environments

04 Crush- and bend-resistant design

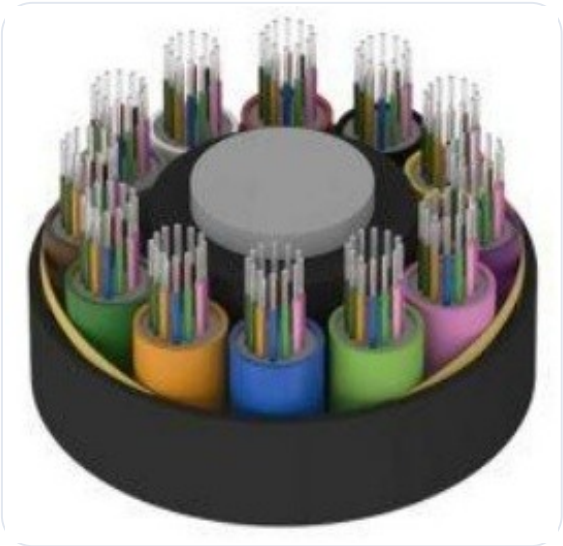
◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYCFHTY	12-72	5.6	26	12	6	200	100	450	150
	74-96	6.4	34	12	8	300	200	450	150
	98-144	8.0	54	12	12	400	300	450	150
	Above 144 fibers	Designed to customer requirements							

All-dielectric self-supporting optical cable ADSS

ALL-DIELECTRIC SELF-SUPPORTING OPTICAL CABLE

Outdoor all-dielectric self-supporting communication cable with non-metallic strength member, loose-tube layer-stranded filled core, PE sheath, non-metallic yarn armor and PE outer sheath



Appearance and cross-section

Application	Communication lines installed on power transmission towers
Installation	Self-supporting aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	12.5 × cable diameter
Dynamic bend radius	25 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Central strength member of high-modulus FRP

07 All-dielectric self-supporting structure — high-strength aramid yarn reinforcement prevents significant fiber strain even under harsh conditions; unaffected by lightning induction

08 High-performance PE / anti-tracking (AT) sheath ensures safety in high induced-voltage environments

Design range

Span 100–800 m · 4–96 fibers · MAT 4.4–25.9 kN · RTS 11.0–64.7 kN

▶️ **Detailed specification tables are on the next page.**

All-dielectric self-supporting optical cable ADSS

ALL-DIELECTRIC SELF-SUPPORTING OPTICAL CABLE — Specifications

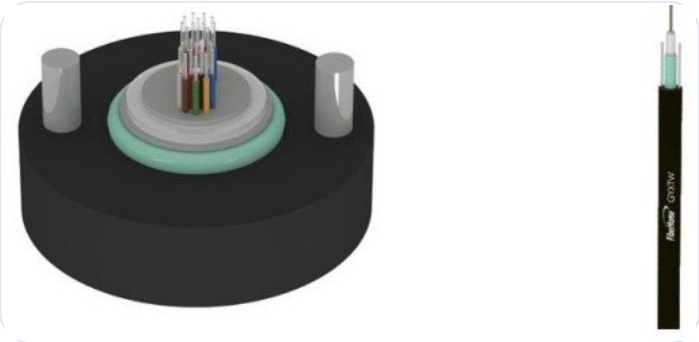
Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Span (m)	MAT (kN)	RTS (kN)
ADSS	4-36	12.5	128	6	6	100	4.4	11.0
	4-36	12.7	133	6	6	200	6.4	16.0
	4-36	13.1	142	6	6	300	9.6	24.0
	4-36	13.4	149	6	6	400	12.2	30.6
	4-36	13.8	158	6	6	500	15.6	39.0
	4-36	14.3	167	6	6	600	19.2	48.0
	4-36	14.9	181	6	6	700	22.0	55.0
	4-36	15.3	187	6	6	800	24.8	62.0
	48-72	13.6	152	12	6	100	5.0	12.4
	48-72	14.0	158	12	6	200	7.3	18.2
	48-72	14.5	172	12	6	300	12.4	31.0
	48-72	14.6	176	12	6	400	13.8	34.5
	48-72	15.0	182	12	6	500	16.1	40.3
	48-72	15.5	193	12	6	600	19.8	49.6
	48-72	16.1	208	12	6	700	23.1	57.8
	48-72	16.5	215	12	6	800	25.9	64.7
	96	16.1	203	12	8	100	10.1	25.2
	96	16.4	212	12	8	200	14.7	36.8
	96	16.6	219	12	8	300	17.0	42.6

※ ADSS technical parameters are closely related to fiber count, span, weather conditions and sag requirements, so each project requires an individual design.

Central-tube duct optical cable GYXTW

CENTRAL TUBE DUCT OPTICAL CABLE

Outdoor communication cable with central-tube filled core and steel-PE bonded sheath with embedded parallel steel wires



Appearance and cross-section

Application	Long-distance and inter-office communication
Installation	Duct or aerial
Operating temperature	-40°C ~ +70°C
Static bend radius	10 × cable diameter
Dynamic bend radius	20 × cable diameter

◆ Product features

01 High-quality optical fiber ensures excellent transmission performance

02 Precise control of fiber excess length ensures excellent mechanical and temperature characteristics

03 Strict process and raw-material control guarantees stable use for more than 30 years

04 Full cross-section water-blocking structure gives excellent waterproof and moisture-proof performance

05 Special jelly filling in the loose tubes provides core protection for the fibers

06 Two parallel round steel wires resist tension and crush simultaneously for excellent mechanical performance

07 Small diameter, light weight, compact structure and good bend performance; the loose tube sits at the physical center of the cable for easy installation

◆ Specifications

Cable type	Fiber count	Nominal diameter (mm)	Nominal weight (kg/km)	Max. fibers per unit	Tube count	Allowable tensile (N)		Allowable crush (N/100mm)	
						Short	Long	Short	Long
GYXTW	4	8.7	79	4	1	1500	600	1000	300
	6-8	8.9	83	8	1	1500	600	1000	300
	10-12	9.1	86	12	1	1500	600	1000	300
	14-24	10.3	105	24	1	1500	600	1000	300
	Above 24 fibers	Designed to customer requirements							

Quality

QUALITY ASSURANCE — HIGH-QUALITY, RELIABLE AND DURABLE

"Zero Complaint" is the manufacturing partner's management goal. Recognising that quality is the life of the enterprise, it applies strict standards to product quality and drives high-quality growth through quality management. A modern corporate management system and strict inspection standards support total quality management (TQM), while advanced technology and production equipment are continuously introduced to guarantee product quality. More than 50 technical professionals and fully equipped laboratories provide comprehensive testing capability.

Emphasising in-process inspection, the whole process — incoming inspection, first-article inspection, process tracking and finished-product inspection — is supervised so that delivered products meet customer requirements. The ISO 9001:2015 quality management system is strictly operated to ensure traceability of all production information. Every product supplied by NEXFIRA is genuine and covered by the manufacturer's warranty and factory technical support.

Laboratory and test equipment

◆ **Full-process quality inspection**

Incoming inspection ▶ **First-article inspection** ▶ **Process tracking** ▶ **Final inspection**

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