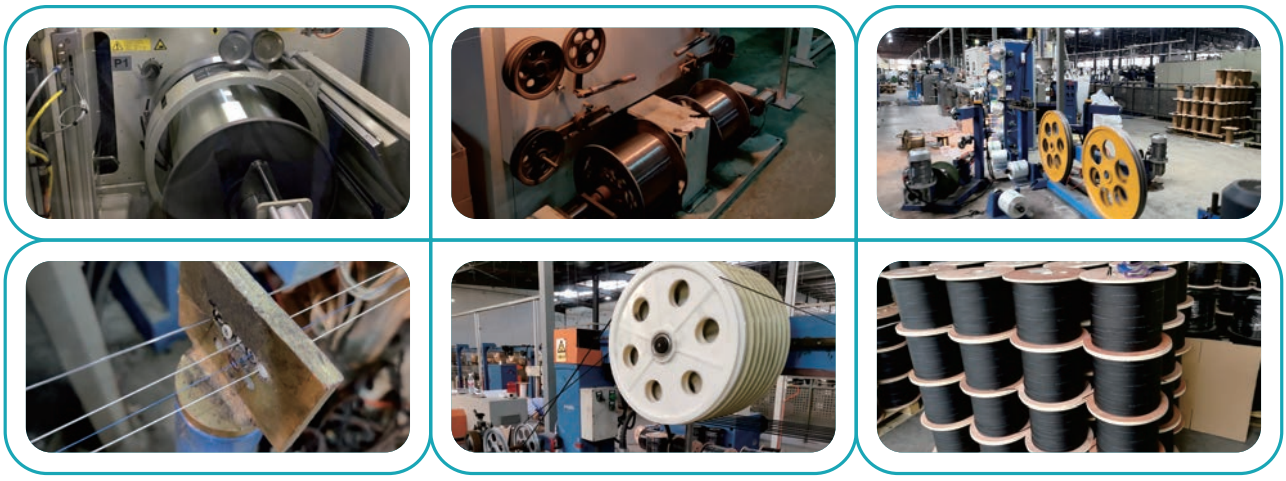
ZION communication

Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Content



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ADSS
Optical Fiber Cable

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and providing customized services for our customers

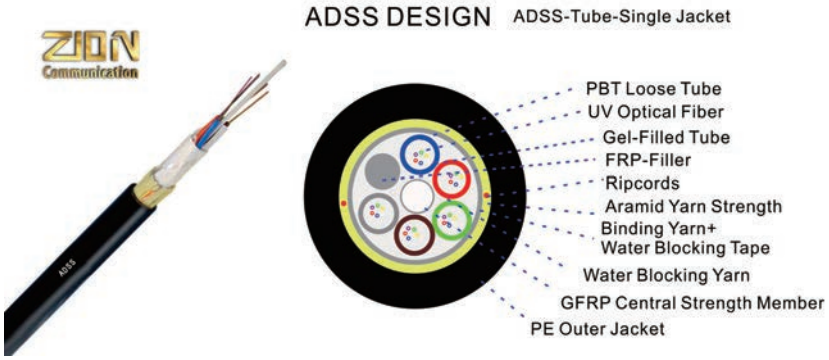
ADSS All Dielectric Self-supporting Aerial Optical Cable

Introduction:

All-dielectric self-supporting (ADSS) cable is a type of optical fiber cable that is strong enough to support itself between structures without using conductive metal elements. It is used by electrical utility companies as a communications medium, installed along existing overhead transmission lines and often sharing the same support structures as the electrical conductors.Design different specifications according to span, voltage level and tensile force(MAT)
No metal wires are used in an ADSS cable. Optical fibers are either supported in loose buffer tubes or arranged in a ribbon configuration. To prevent strain on the fibers, most types provide the fibers with excess slack length compared to the length of the supporting member.

For longer spans, the most common design gets its strength from aramid fiber yarns, which are coated to prevent water wicking. The aramid yarn strength member surrounds a core made up of multiple buffer tubes, each containing multiple fibers, all surrounding a plastic core. The outer sheath provides protection from water and sunlight.

Cross Section:



Product Series:

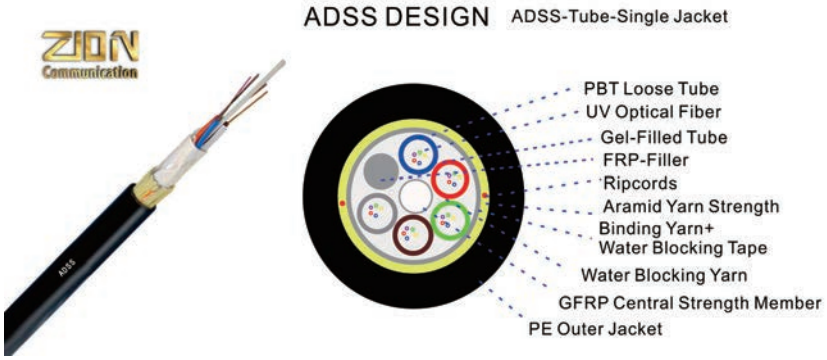
SPAN 80M	ADSS-6	9.5mmHDPE	MAT=1850N
	ADSS-12	9.5mmHDPE	MAT=1850N
	ADSS-24	9.5mmHDPE	MAT=1850N
	ADSS-48	9.5mmHDPE	MAT=1850N
	ADSS-96	11.4mmHDPE	MAT=1850N
SPAN 120M	ADSS-6	10.0mmHDPE	MAT=1850N
	ADSS-12	10.0mmHDPE	MAT=2950N
	ADSS-24	10.0mmHDPE	MAT=2950N
	ADSS-48	10.0mmHDPE	MAT=2950N
	ADSS-96	12.5mmHDPE	MAT=2950N

ADSS-SS ADSS Single Sheath Span 80m to 150m All Dielectric Self-supporting Aerial Fiber Optic Cable

Introduction:

All-dielectric self-supporting (ADSS) cable is a type of optical fiber cable that is strong enough to support itself between structures without using conductive metal elements. It is used by electrical utility companies as a communications medium, installed along existing overhead transmission lines and often sharing the same support structures as the electrical conductors.Design different specifications according to span, voltage level and tensile force(MAT)

Cross Section:



Structure Description:

1. Loose Tube: Thermoplastic material,containing optical fibres and filled with gel.
2. Filler Elements: Thermoplastic rods.
3. Central Strength Member(CSM):Glass fibre reinforced plasticrod (GFRP), Coated with polyethylene when needed.
4. Longitudinal Water Blocking Material:Water blocking tape.
5. Peripheral Strength Member: Aramid yarn.
6. Ripcord
7. Outer Sheath: Black polyethylene.

Features and Applications:

√ High tensile strength

√ All dielectric structure and semi-dry core design

√ Small diameter and light weight

√ Self-supporting aerial installation

Optical Characteristics:

		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km	-	-
	Design link value (M=20,Q=0.01%)	≤0.10 ps/√km	≤0.10 ps/√km	-	-

Technical Data:

Item	Contents	Fibers					
	Fiber Count	6|12|24	48	72	96	144	288
Loose Tube	Tubes* Fbres/Tube	1x6 | 2x6 4x6	6x 8 4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.8	2.0	2.5	2.5	2.5	2.5
	Adjustable (OEM)	1.5|2.0	1.8|2.3	2.1|2.3	2.1|2.3	2.1|2.3	2.1|2.3
Central strength member	Material	Glass Fbre Reinforced Plasticrod (GFRP)					
	Diameter (mm)	2.0	2.0	2.5	2.8	3.7	2.6
	Adjustable (OEM)	1.8|2.3	1.8|2.3	2.5	2.8	3.7	2.6
	PE coated diameter (mm)	No			4.2	7.4	4.8
Water Blocking	Material	Water blocking tape					
Peripheral Strength	Material	Aramid Yarn					
Outer Sheath	Thickness (mm)	1.8mm(1.5-2.0mm OEM)					
Cable diameter(mm)Approx.		9.5	9.5|10	12.2	13.9	17.1	20.2
Cable diameter(mm) Adjustable (OEM)		8.0|8.5|9.0	10.5|11.0				
Operating temperature range(℃)		From -40~+70					
Max. span (m)		50m | 80m | 100m | 120m | 150m					
Climate condition		No Ice,25m/s Max Wind Speed					
MAT		Design according to customer requirements					

√ Other structure and fibre count are also available according to customer requirements.

√ Cable diameter and weight in this table is typical value, which will fluctuate according to different designs

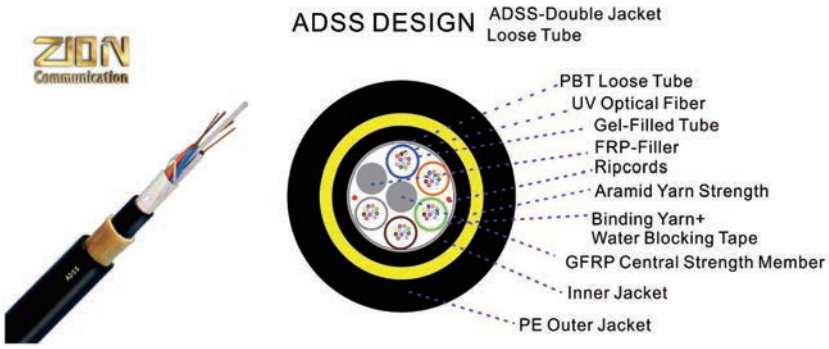
√ The span needs to be recalculated due to other climate conditions according to the installation area.

ADSS-DS ADSS Double Sheath Span 200m to 400m All Dielectric Self-supporting Aerial Fiber Optic Cable

Introduction:

All-dielectric self-supporting (ADSS) cable is a type of optical fiber cable that is strong enough to support itself between structures without using conductive metal elements. It is used by electrical utility companies as a communications medium, installed along existing overhead transmission lines and often sharing the same support structures as the electrical conductors.Design different specifications according to span, voltage level and tensile force(MAT)

Cross Section:



Structure Description:

1. Loose Tube: Thermoplastic material,containing optical fibres and filled with gel.
2. Filler Elements: Thermoplastic rods.
3. Central Strength Member(CSM):Glass fibre reinforced plasticrod (GFRP), Coated with polyethylene when needed.
4. Longitudinal Water Blocking Material:Water blocking tape.
5. Peripheral Strength Member: Aramid yarn.
6. Ripcord
7. Inner and Outer Sheath: Black Polyethylene.

Features and Applications:

√ High tensile strength

√ All dielectric structure and semi-dry core design

√ Self-supporting aerial installation

Optical Characteristics:

		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km	-	-
	Design link value (M=20,Q=0.01%)	≤0.10 ps/√km	≤0.10 ps/√km	-	-

Technical Data:

Item	Contents	Fibers					
	Fiber Count	6|12	24	48	72	96	144
Loose Tube	Tubes* Fbres/Tube	1x6 | 2x6	4x6	6x 8 4x12	6x12	8x12	12x12
	Outer diameter (mm)	1.8	1.8	2	2.5	2.5	2.5
	Adjustable (OEM)	1.5|2.0	1.5|2.0	1.8|2.3	2.1|2.3	2.1|2.3	2.1|2.3
Central strength member	Material	Glass Fbre Reinforced Plasticrod (GFRP)					
	Diameter (mm)	2.0	2.0	2.0	2.5	2.8	3.7
	Adjustable (OEM)	1.8|2.3	1.8|2.3	1.8|2.3	2.5	2.8	3.7
	PE coated diameter (mm)	No				4.2	7.4
Water Blocking	Material	Water blocking tape					
Peripheral Strength	Material	Aramid Yarn					
Innter Sheath	Thickness (mm)	1.0mm					
Outer Sheath	Thickness (mm)	1.8mm(1.5-2.0mm OEM)					
Cable diameter(mm)Approx.		12.6	12.6	13.2	14	15.3	18
Cable diameter(mm) Adjustable (OEM)							
Operating temperature range(℃)		From -40~+70					
Max. span (m)		150m | 200m | 250m | 300m | 400m					
Climate condition		No Ice,25m/s Max Wind Speed					
MAT		Design according to customer requirements					

√ Other structure and fibre count are also available according to customer requirements.

√ Cable diameter and weight in this table is typical value, which will fluctuate according to different designs

√ The span needs to be recalculated due to other climate conditions according to the installation area.

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FTTH Drop Optical Fiber Cable

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FTTH Drop Fiber Optic Cables

Introduction:

FTTH (fiber to the home) networks are installed in many areas covering indoor section, outdoor section, as well as the transition in between. To fulfill the cabling requirements from different areas, different types of fiber optic cables are well developed. Drop cable as an important part of FTTH network forms the final external link between the subscriber and the feeder cable.

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

GJXFH FTTH Drop Fiber Optic Cables
FRP Strength Member 2.0*3.0 LSZH

Introduction:

The typical GJXFH bow-type drop optical cable
includes central optical fibre(s) with 2 parallel GFRPs as the strength members placed on both sides
a LSZH sheath is extruded outside.

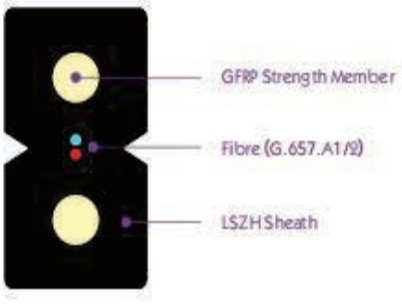
Features:

Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJXFH-1	2.0*3.0	7.5	40/80	500/1000	15/30
GJXFH-2	2.0*3.0	7.5	40/80	500/1000	15/30
GJXFH-4	2.0*3.0	7.5	40/80	500/1000	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GJXH FTTH Drop Fiber Optic Cables
Steel Wire Strength Member 2.0*3.0 LSZH

Introduction:

The typical GJXH bow-type drop optical cable
includes central optical fibre(s) with 2 parallel steel wires as the strength members placed on both sides
a LSZH sheath is extruded outside.

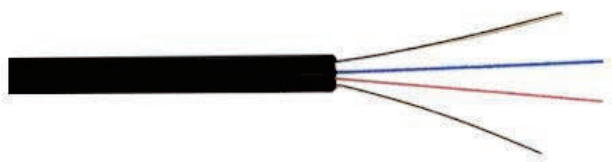
Features:

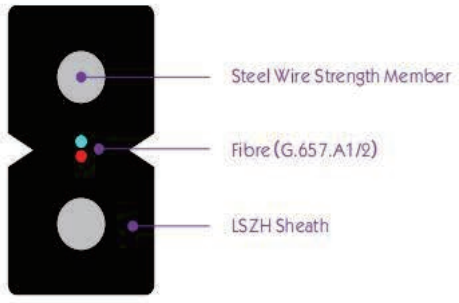
Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:





Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJXH-1	2.0*3.0	10.5	100/200	500/1000	15/30
GJXH-2	2.0*3.0	10.5	100/200	500/1000	15/30
GJXH-4	2.0*3.0	10.5	100/200	500/1000	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GJXH-Small FTTH Drop Fiber Optic Cables
Steel Wire Strength Member 1.6*2.0 LSZH

Introduction:

The typical GJXH bow-type drop optical cable
includes central optical fibre(s) with 2 parallel steel wires as the strength members placed on both sides
a LSZH sheath is extruded outside.

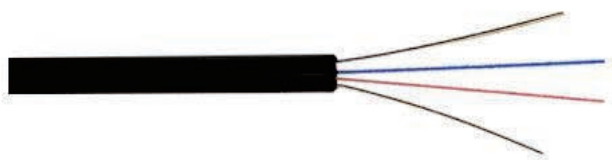
Features:

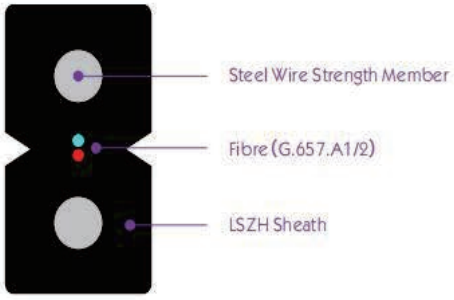
Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:





Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJXH-1	1.6*2.0	7	100/200	500/1000	15/30
GJXH-2	1.6*2.0	7	100/200	500/1000	15/30
GJXH-4	1.6*2.0	7	100/200	500/1000	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GJXFDH FTTH Drop Fiber Optic Cables
Ribbon Fibers 2.0*4.0 LSZH

Introduction:

The typical GJXFDH bow-type drop optical cable
includes central optical fibre(s) with 2 parallel FRP/Steel wires as the strength members placed on both sides
a LSZH sheath is extruded outside.

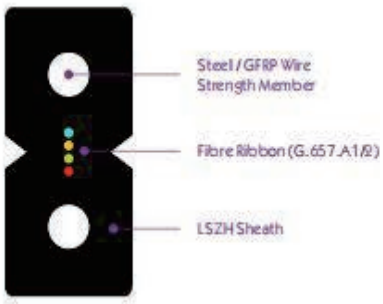
Features:

Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJXFDH-4	2.0*4.0	11.8	40/80	500/1000	15/30
GJXDH-4	2.0*4.0	15	100/200	1000/2200	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GJYXFCH(GJYXCH) FTTH Drop Fiber Optic Cables Self-Supporting Wires 2.0*5.2 LSZH

Introduction:

The typical GJYXFCH / GJYXCH Self-supporting drop optical cable includes central optical fibre(s) with 2 parallel FRP/Steel wires as the strength members placed on both sides,and an additional strength member(steel wire),Finally a LSZH sheath is extruded outside.

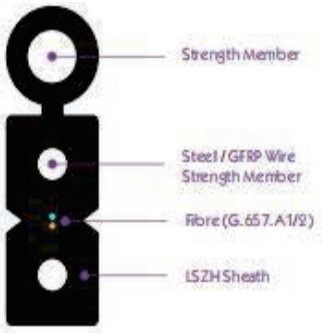
Features:

Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJYXFCH-1-2	2.0*5.2	18.9	300/600	1000/2200	15/30
GJYXCH-1-2	2.0*5.2	21	300/600	1000/2200	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GJYXFCH(GJYXCH)-Small FTTH Drop Fiber Optic Cables Self-Supporting Wires 1.7*3.8 LSZH

Introduction:

The typical GJYXFCH / GJYXCH Self-supporting drop optical cable includes central optical fibre(s) with 2 parallel FRP/Steel wires as the strength members placed on both sides,and an additional strength member(steel wire),Finally a LSZH sheath is extruded outside.

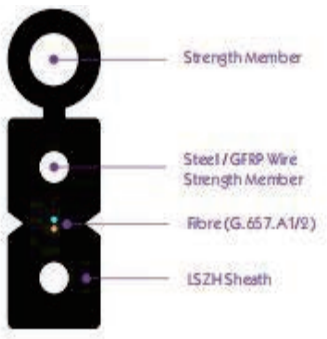
Features:

Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJYXFCH-1-2	1.7*3.8	15.5	200/400	500/1000	15/30
GJYXCH-1-2	1.7*3.8	15.5	200/400	500/1000	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GJYXFDCH(GJYXDCH) FTTH Drop Fiber Optic Cables Ribbon Fibers

Introduction:

The typical GJYXFDCH / GJYXDCH Self-supporting drop optical cable includes central optical Ribbon fibre(s) with 2 parallel FRP/Steel wires as the strength members placed on both sides,and an additional strength member(steel wire),Finally a LSZH sheath is extruded outside.

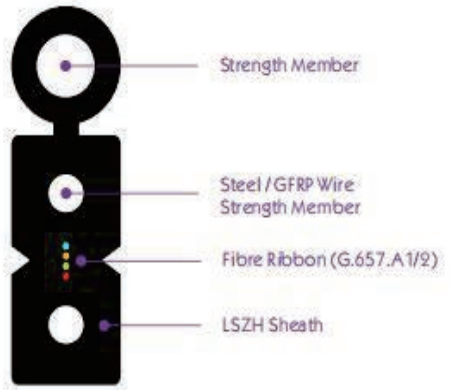
Features:

Simple structure, light weight, high tensile strength and metal-free
Novel groove design, easily strip and splice, simplified installation and maintenance
Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GJYXFDCH-4	2.0*6.2	23.6	300/600	1000/2200	15/30
GJYXDCH-4	2.0*6.2	25.6	300/600	1000/2200	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GYFJU FTTH Drop Fiber Optic Cables
Aramid Yarn Strength Round Sheath LSZH

Introduction:

The typical GYFJU Round drop optical cable
includes Tight buffer optical fibre(s) with Aramid Yarns as the strength members,
a LSZH(TPU) sheath is extruded outside.

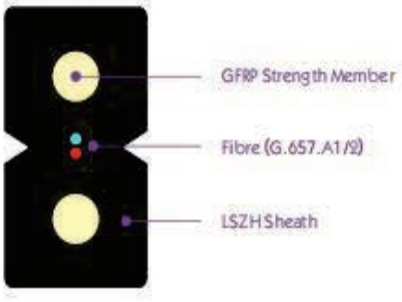
Features:

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

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GYFJU-1	3	10.2	400/800	500/1000	15/30
GYFJU-2	3.5	12.6	400/800	500/1000	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GYGXY FTTH Drop Fiber Optic Cables
Central Tube Glass Yarns armor Round Sheath HDPE

Introduction:

The typical GYGXY Round drop optical cable
includes Central Tubes with optical fibre(s),Glass Yarns and GFRP Tape as the strength members,
a HDPE sheath is extruded outside.

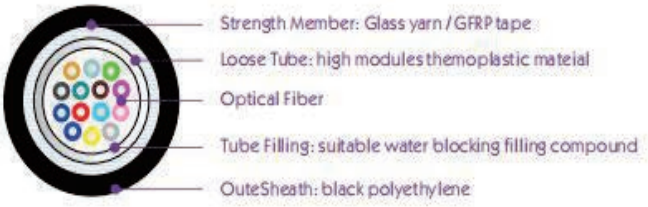
Features:

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

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
GYGXY-4-6F	6.7(3.0tube)	36	300/1000	300/1000	15/30
GYGXY-12-24F	7.0(3.2tube)	43	300/1000	300/1000	15/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

ASU FTTH Drop Fiber Optic Cables
Self-Supporting FRP Strength Tube 7.0/8.0 HDPE

Introduction:

The typical ASU Self-supporting Drop Optical cable
Includes Central Tubes with optical fibre(s),Two Glass FRP as the strength members,
a LSZH Sheath is extruded outside.

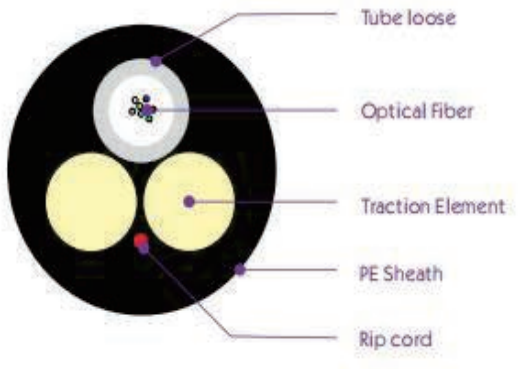
Features:

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

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
ASU-80	6.8(2.0tube)	45	300/600	300/600	10D/20D
ASU-120	7.8(2.5tube)	60	300/600	300/600	10D/20D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GYXY-8S FTTH Drop Fiber Optic Cables
Figure-8 Self-supporting Aramid Yarns Tubes 4.6*8.8HDPE

Introduction:

The typical GYXY-8S Self-supporting Drop Optical cable
Includes Central Tubes with optical fibre(s),Aramid yarns as the strength members, Steel wires as the Self supporting, a HDPE Sheath is extruded outside.

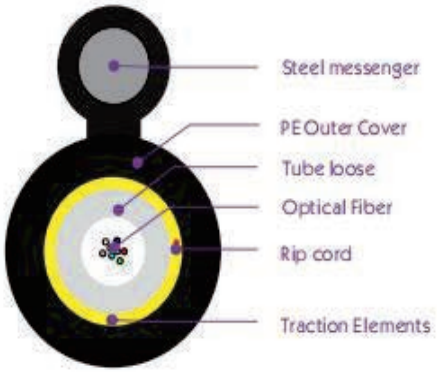
Features:

Figure-8 Self-supporting
Aerial installation
Suitable for FTTH application as drop cable

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
2-12F	2.8*4.6*8.8(2.5Tube)	41	500/1250	300/600	150/75

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

GYFXBY FTTH Drop Fiber Optic Cables Flat Drop Cable Central Tube 4.6*8.1 LSZH

Introduction:

The typical GYFXBY Flat Shape Self-supporting Drop Optical cable
Includes Central Tubes with optical fibre(s),G-FRP Rods as the strength members,
a HDPE Sheath is extruded outside.

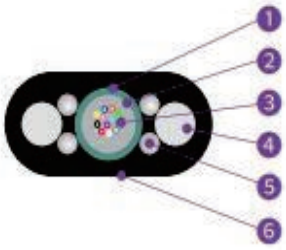
Features:

Flat Shape Self-supporting Drop Cable
Aerial installation
Suitable for FTTH application as drop cable

Product Series:

GJXFH	FRP Strength Member+2.0*3.0LSZH
GJXH	Steel Wire Strength Member+2.0*3.0 LSZH
GJXH-Small Diamter	Steel Wire Strength Member+1.6*2.0 LSZH
GJX(F)DH	Ribbon Fibers+2.0*4.0LSZH
GJYX(F)CH	Self-Supporting Wires+2.0*5.2LSZH
GJYX(F)CH-Small	Self-Supporting Wires+1.7*3.8LSZH
GJYXFDCH(GJYXDCH)	Self-Supporting Wires+Ribbon Fibers+1.7*3.8LSZH
GYFJU	Aramid Yarn Strength Round Sheath LSZH
GYGXY	Central Tube Glass Yarns armor Round Sheath HDPE
FDC	Flat Drop Cable+Central Tube+3.0*6.0 LSZH
ASU	Self-Supporting FRP Strength+Tube+7.0/8.0 HDPE
GYXY-8S	Figure-8 Self-supporting+Aramid Yarns+Tubes+4.6*8.8HDPE
GYFXBY	Flat Drop Cable+Central Tube+4.6*8.1 LSZH

Cross Section:



1.Tube Filling: Suitable water blocking filling compound.

2.Loose Tube: thermoplastic material.

3.Optic Fiber

4.Strength Member: Glass fibre reinforced plastic rod (GFRP).

5.Water Blocking Material: water blocking yarn.

6.Outer Sheath: black polyethylene.

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)	Bending Radius Static/Dynamic
2-12F	4.6*8.1(3.0Tube)	35	400/1200	1100/2200	30D/15D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics :

Transport/storage temperature: -20℃~70℃

Delivery Length :

Standard length:1000m;Other length availabe

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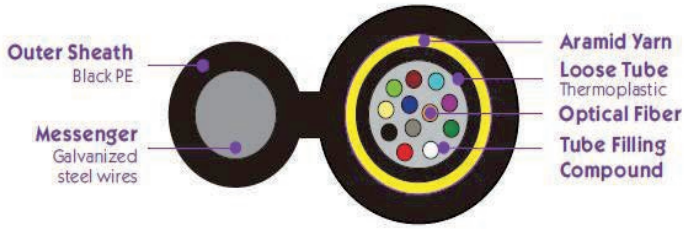
Aerial Installation Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

GYAXTC8Y
Central Tube Aerial Installation Optical Fiber Cable
Figure-8 Self-Sipporting



Application:

Good mechanical and environmental Performances.

Small size and light weight, easy for installation.

Self-supporting aerial installation.

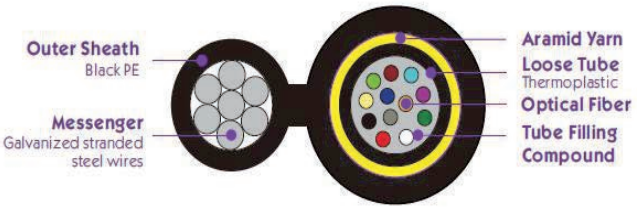
Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	2	4	6	12	18	24
Loose Tube	Outer diameter (mm)	3.0	3.0	3.0	3.0	3.2	3.2
Steel Wire	Material	Galvanized steel wire					
	Diameter (mm)	1.5					
Sheath	Material	PE					
	Thickness (mm)	Nominal:1.0					
Cable diameter(mm)Approx.		5.4/*10.5mm	5.4/*10.5mm	5.4/*10.5mm	5.4/*10.5mm	5.6/*10.5mm	5.6/*10.5mm
Cable weight(kg/km)Approx.		46	46	46	46	48	48
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		1500/600					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYAXTC8Y-Small
Central Tube Aerial Installation Optical Fiber Cable
Figure-8 Self-Sipporting



Application:

Good mechanical and environmental Performances.

Small size and light weight, easy for installation.

Self-supporting aerial installation.

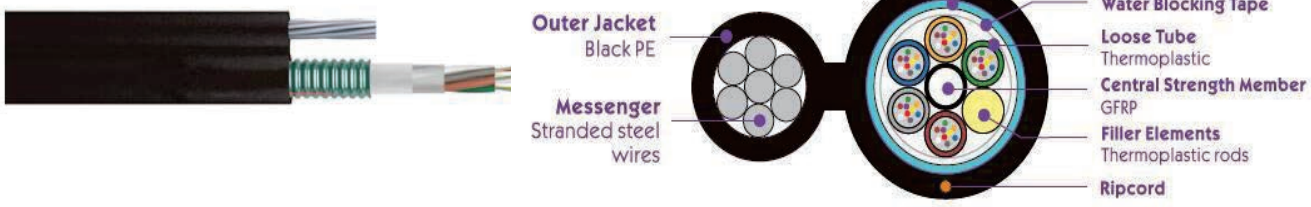
Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	2	4	6	12	18	24
Loose Tube	Outer diameter (mm)	2.8	2.8	2.8	2.8	3.2	3.2
Steel Wire	Material	Galvanized steel wire					
	Diameter (mm)	7*0.8					
Sheath	Material	PE					
	Thickness (mm)	Nominal:0.8					
Cable diameter(mm)Approx.		4.4/*9.5mm	4.4/*9.5mm	4.4/*9.5mm	4.4/*9.5mm	4.6/*9.5mm	4.6/*9.5mm
Cable weight(kg/km)Approx.		66	66	66	66	68	68
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		1500/600					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFC8S
Light Amored Self-supporting Figure 8 Cable



Application:

High tensile resistance

High crush resistance

Self-supporting aerial installation

Semi-dry core design, easy for installation and splice

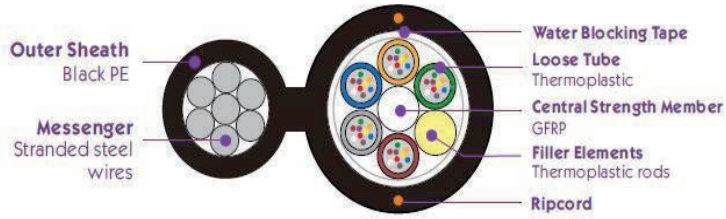
Characteristics:

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

Technical Data:

Item	Contents	Value				
	Fiber Count	24	48	72	96	144
Loose Tube	No.of tubes*fibres pertube	4*6	4*12	6*12	8*12	12*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4
Central Strength member	Material	FRP				
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4
Water Blocking material	Material	Water Blocking Tape & Yarn				
Inner Sheath	Thickness (mm)	Nominal:1.0				
Armor	Material	Corugated steel tape				
Messenger Wire	Structure and diameter (mm)	7*1.6				
Outer Sheath	Thickness (mm)	Nominal:1.8				
Cable diameter(mm)Approx.		11.1/*22.1mm	12.1/*23.1mm	12.6/*23.6mm	14.6/*25.6mm	17.6/*28.6mm
Cable weight(kg/km)Approx.		280	310	330	370	440
Operating temperature range(℃)		-40~+70				
Tensile Strength Short/ Long Term(N)		8000/2700				
Crush resistanoe short/long term (N/100mm)		2000/600				
The colour arrangement of fibre and tube is specified in the colour identification table.						
Other structure and fibre count are also available according to customer requirements.						

GYFC8Y
FRP CSM Aerial Installation Optical Fiber Cable
Figure-8 Self-supporting



Application:

High tensile strength

Self-supporting aerial installation

Semi-dry core design, easy for installation and splice

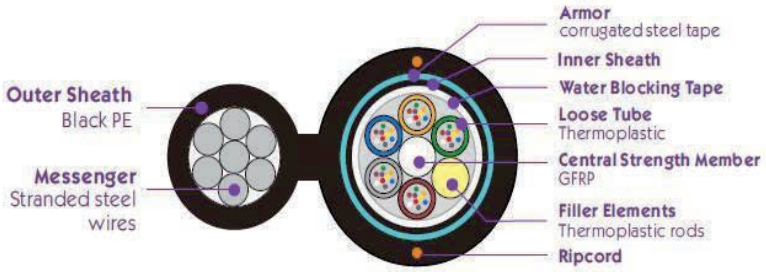
Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No.of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4	2.4
Central Strength member	Material	FRP					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water Blocking material	Material	Water Blocking Tape					
Messenger Wire	Structure and diameter (mm)	7*1.6					
Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		10.0/*21.0mm	10.8/*21.8mm	11.6/*22.6mm	13.2/*24.2mm	16.4/*27.4mm	19.2/*30.2mm
Cable weight(kg/km)Approx.		200	245	265	290	340	425
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		8000/2700					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFC8Y53
FRP CSM Double Sheath Aerial Installation Optical Fiber Cable Figure-8 Self-supporting



Application:

High tensile resistance High crush resistance

Semi-dry core design, easy for installation and splice

Self-supporting aerial installation

Characteristics:

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

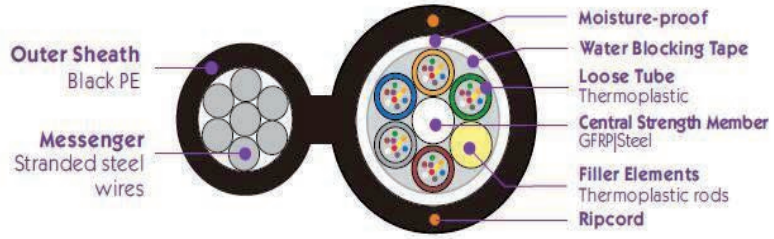
Technical Data:

Item	Contents	Value				
	Fiber Count	24	48	72	96	144
Loose Tube	No.of tubes*fibres pertube	4*6	4*12	6*12	8*12	12*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4
Central Strength member	Material	FRP				
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	4.8
Water Blocking material	Material	Water Blocking Tape & Yarn				
Inner Sheath	Thickness (mm)	Nominal:1.0				
Armor	Material	Corugated steel tape				
Messenger Wire	Structure and diameter (mm)	7*1.6				
Outer Sheath	Thickness (mm)	Nominal:2.0				
Cable diameter(mm)Approx.		13.4/*24.4mm	15.0/*26.0mm	15.4/*26.4mm	16.8/*27.8mm	20.2/*31.2mm
Cable weight(kg/km)Approx.		270	320	350	390	420
Operating temperature range(℃)		-40~+70				
Tensile Strength Short/ Long Term(N)		8000/2700				
Crush resistanoe short/long term (N/100mm)		3000/900				

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYFTC8A |GYTC8A
FRP CSM Aluminum Armored Aerial Installation Optical Fiber Cable Figure-8 Self-supporting



Application:

High tensile strength

Self-supporting aerial installation

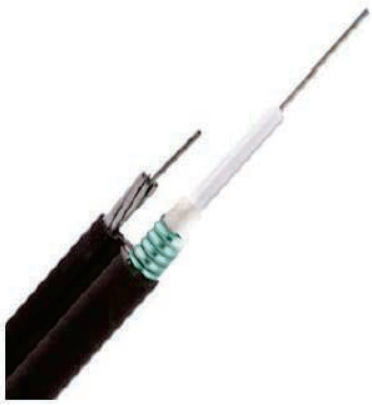
Characteristics:

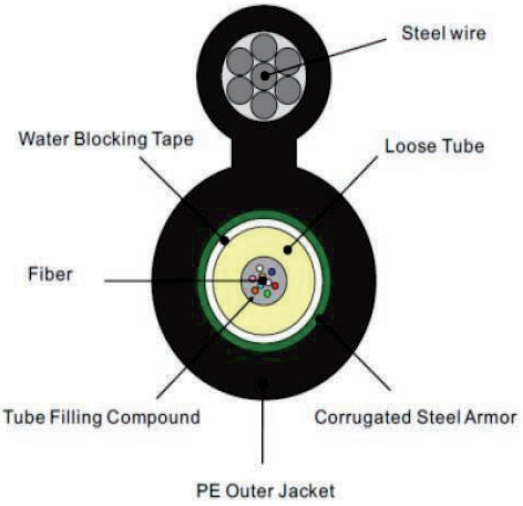
		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Polarization mode dispersion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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No.of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4	2.4
Central Strength member	Material	FRP|Steel					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water Blocking material	Material	Cable filling compound					
Moisture-proof	Material	Laminated aluminum tape					
Messenger Wire	Structure and diameter (mm)	7*1.6					
Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		10.2/*21.2mm	10.6/*21.6mm	11.4/*22.4mm	13.6/*24.6mm	16.4/*27.4mm	19.5/*30.5mm
Cable weight(kg/km)Approx.		220±10	250±10	270±10	310±10	360±10	450±10
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		8000/2700					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYXTC8S
PSP Armored Uni-tube Aerial Installation Optical Fiber Cable Figure-8 Self-supporting





Application:

Good mechanical and environmental Performances.

Small size and light weight, easy for installation.

Self-supporting aerial installation.

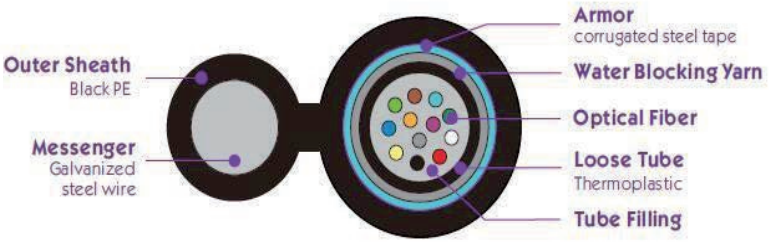
Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	2	4	6	12	18	24
Loose Tube	Outer diameter (mm)	3.0	3.0	3.0	3.0	3.2	3.2
Steel Wire	Material	galvanized steel wire					
	Diameter (mm)	7*1.2					
Sheath	Thickness (mm)	Nominal:0.8					
Cable diameter(mm)Approx.		6.3*15.0mm					
Cable weight(kg/km)Approx.		125KG					
Operating temperature range(℃)		-40~+70					
Tensile Strength Term(N)		7000					
Crush resistanoe(N/100mm)		1500					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYXTC8S-Small
PSP Armored Uni-tube Aerial Installation Optical Fiber Cable
Figure-8 Self-supporting



Application:

Good mechanical and environmental Performances.

Small size and light weight, easy for installation.

Self-supporting aerial installation.

Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	2	4	6	12	18	24
Loose Tube	Outer diameter (mm)	3.0	3.0	3.0	3.0	3.2	3.2
Steel Wire	Material	galvanized steel wire					
	Diameter (mm)	1.6					
Sheath	Thickness (mm)	Nominal:0.8					
Cable diameter(mm)Approx.		7.0*13.0mm					
Cable weight(kg/km)Approx.		82					
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		500/600					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

zion communication

Duct Installation Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

GJYXFHA / GJYXFHS
Optical Fiber Cable Light Armor Bow type Drop Duct Installation

Description:

The typical GJYXFHA/GJYXFHS duct bow-type drop cable is composed of one GJXFH cable in the middle and two strength members on both sides, longitudinal wrapped by aluminum / steel tape and HDPE sheath.

Novel groove design, easily strip and splice, simplified installation and maintenance, higher tensile strength

Suitable as duct cable

Waterproof, good safety

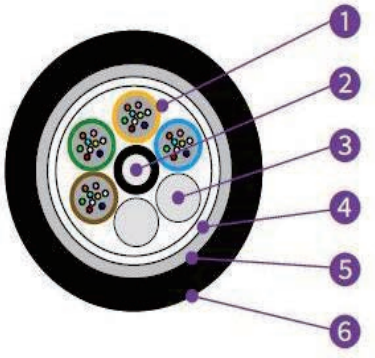
Standard:

ITU-T Rec. G.657A	IEC 60794	GR-409
ISO9001	ICEA-596	YD/T 1997-2009

Structure and technical parameters:

Cable Type	Cable Size(mm)	Cable Weight (Kg/km)	Tensile Strength Long/Short Term(N)	Crush Resistance Long/Short Term (N/100mm)	Bending Radius Static/Dynamic (mm)	Storage, operating Temperature(℃)
GJYXFHA-1	7.2±0.3	42	300/600	1000/2200	10/20	-20~+60
GJYXFHA-2	7.2±0.3	42	300/600	1000/2200	10/20	-20~+60
GJYXFHS-1	7.4±0.3	59	500/1000	1000/2200	10/20	-20~+60
GJYXFHS-2	7.4±0.3	59	500/1000	1000/2200	10/20	-20~+60

GYFA
Optical Fiber Cable APL Armored Stranded Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing opticalfibres and water blocking yarm.
2. Central Strength Mlember: glass fibre reinforced plasticrod (GFRP) coated with PE when needed.
3. Filler Elements: thermoplastic rods.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Armor: APL
6. Outer Sheath: black polyethylene

Features and Applications:

Gel-free cable structure.

Easy for installation and splicing.

Duct installation and aerial installation.

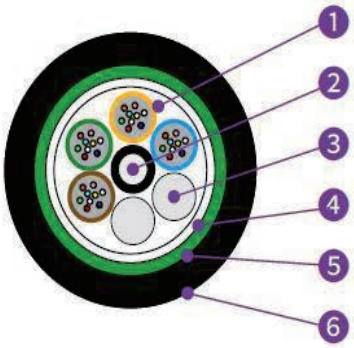
Optical Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	2x12	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	2.4					
Central strength member	Material	GFPR					
	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		12.0	12.0	12.5	14.0	17.0	19.5
Cable weight(kg/km)Approx.		120	120	125	155	225	295
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFS
Optical Fiber Cable PSP Armored Stranded Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing opticalfibres and water blocking yarm.
2. Central Strength Mlember: glass fibre reinforced plasticrod (GFRP) coated with PE when needed.
3. Filler Elements: thermoplastic rods.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Armor: corrugated steel tape.
6. Outer Sheath: black polyethylene

Features and Applications:

Gel-free cable structure.

Easy for installation and splicing.

Duct installation and aerial installation.

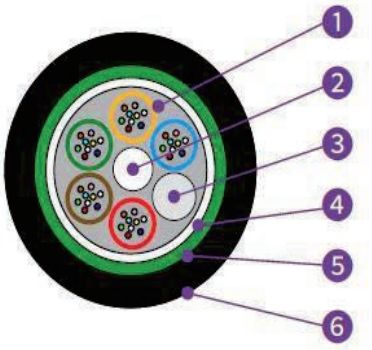
Optical Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	2x12	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	2.4					
Central strength member	Material	GFPR					
	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		12.5	12.5	13.0	14.5	17.5	20.0
Cable weight(kg/km)Approx.		130	130	140	175	255	320
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFS-Semi dry
Optical Fiber Cable PSP Armored Stranded Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing opticalfibres and water blocking yarm.

2.Central Strength Member (CSM): Glass fibre reinforcedplastic rod (GFRP), coated with polyethylene when needed.

3. Filler Elements: thermoplastic rods.

4. Longitudinal Water Blocking Material: Water blocking tape.

5. Armor:corrugated steel tape

6. Outer Sheath: black polyethylene

Features and Applications:

Good crush resistance

Duct installation or aerial installation

Semi-dry core design, easy for installation and splice

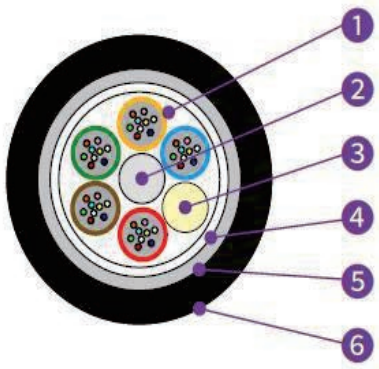
Optical Characteristics:

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

Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4x6	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	GFPR					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
water blocking material	Material	Water blocking tape					
Armor	Material	Corrugated steel tape					
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		11.1	12.1	12.6	14.6	17.6	20.6
Cable weight(kg/km)Approx.		110	130	165	205	280	350
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush resistanoe short/long term (N/100mm)		2000/600					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFTA
Optical Fiber Cable GFRP CSM APL Armored Stranded Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing opticalfibres and water blocking yarm.

2.Central Strength Member (CSM): Glass fibre reinforcedplastic rod (GFRP), coated with polyethylene when needed.

3. Filler Elements: thermoplastic rods.

4. Longitudinal Water Blocking Material: Water blocking tape.

5. Moisture-proof: laminated aluminum tape.

6. Outer Sheath: black polyethylene

Features and Applications:

Good flexibility

Duct installation or aerial installation

Optical Characteristics:

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

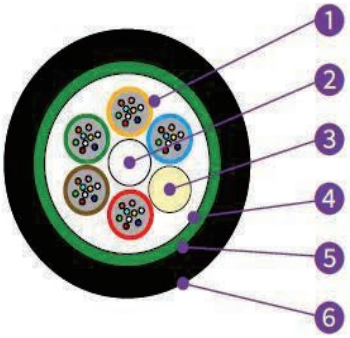
Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4x6	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	GFPR					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Moisture-proof	Material	Cable filling compound					
Armor	Material	Laminated aluminum tape					
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		10.2	10.6	11.4	13.6	16.4	19.5
Cable weight(kg/km)Approx.		90	110	130	165	240	290
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush resistanoe short/long term (N/100mm)		1000/300					

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYFTS
Optical Fiber Cable GFRP CSM PSP Armored Stranded Loose Tube Duct Installation



1.Loose Tube: thermoplastic material, containing opticalfibres and filled with a suitable water tightness compound.

2. Central Strength Member (CSM): Glass fibre reinforcedplastic rod (GFRP), coated with polyethylene when needed.

3. Filler Elements: thermoplastic rods.

4. Longitudinal Water Blocking Material: cable filling compound.

5. Armor:corrugated steel tape

6. Outer Sheath: black polyethylene

Features and Applications:

Good crush resistance

Duct installation or aerial installation

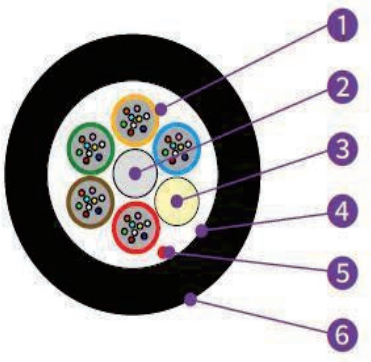
Optical Characteristics:

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

Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4x6	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	GFPR					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Moisture-proof	Material	Cable filling compound					
Armor	Material	Corrugated steel tape					
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		10.4	11.1	12.1	14.0	17.2	19.5
Cable weight(kg/km)Approx.		100	120	150	190	270	340
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush resistanoe short/long term (N/100mm)		2000/600					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFTY
Optical Fiber Cable GFRP CSM Stranded Loose Tube Duct Installation



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

Features and Applications:

Non-metallic structure

Lighting resistance

Duct installation or aerial installation

Optical Characteristics:

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

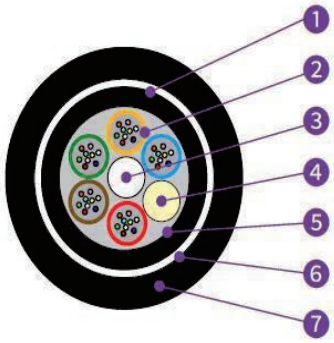
Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4x6	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	GFPR					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water Blocking Material	Material	Cable filling compound					
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		9.8	10.2	11.1	13.2	16.4	18.8
Cable weight(kg/km)Approx.		80	90	105	150	220	270
Operating temperature range(℃)		-10~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush resistanoe short/long term (N/100mm)		1000/300					

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYFTY73-2
Anti-Rodent Anti Bird FRP Tape Double Sheath Stranded Loose Tube Duct Installation



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

Features and Applications:

Good crush resistance

Duct installation or aerial installation

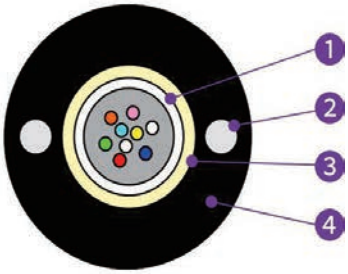
Optical Characteristics:

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

Technical Data:

Item	Contents	Value				
	Fiber Count	24	48	72	96	144
Loose Tube	No. of tubes*fibres per tube	2x12	4x12	6x12	8x12	12x12
	Outer diameter (mm)	2.2				
Central strength member	Material	GFPR				
	Diameter (mm)	2.25			2.6	2.8
	Coated CSM diameter (mm)	-			3.7	6.1
Inner Sheath	Material	HDPE				
	Thickness (mm)	Nominal:1.0				
Outer Sheath	Material	PE				
	Thickness (mm)	Nominal:1.8				
Cable diameter(mm)Approx.		13.0			14.6	16.8
Cable weight(kg/km)Approx.		132			152	196
Operating temperature range(℃)		-40~+70				
Tensile Strength Short/ Long Term(N)		2700/900				
Crush resistanoe short/long term (N/100mm)		1000/300				
The colour arrangement of fibre and tube is specified in the colour identification table.						
Other structure and fibre count are also available according to customer requirements.						

GYFXY
Optical Fiber Cable FRP rods Uni-Tube Duct Installation



1. Loose Tube: thermoplastic material, containing optical fibres and filled with gel.
2. Strength Member: two glass fibre reinforced plasticrods (GFRP).
3. Longitudinal Water Blocking Material: Water blocking yarn.
4. Outer Sheath: black polyethylene.

Features and Applications:

Small diameter, light weight,easy for transportation and installation.

Duct installation or aerial installation

Lighting resistance

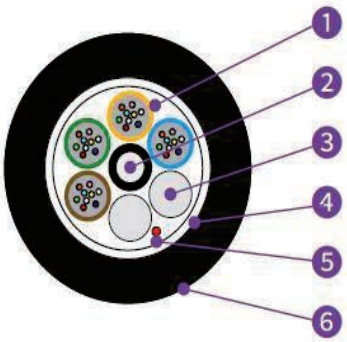
Optical Characteristics:

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

Technical Data:

Item	Contents	Value	
	Fiber Count	6	12
Loose Tube	No. of tubes*fibres per tube	1x6	1x12
	Outer diameter (mm)	2.0	
Strength member	Material	GFPR	
	Diameter (mm)	1.0	
water blocking material	Material	Water blocking yarn	
Outer Sheath	Thickness (mm)	Nominal:2.5	
Cable diameter(mm)Approx.		7.5	
Cable weight(kg/km)Approx.		65	
Operating temperature range(℃)		-20~+70	
Tensile Strength Short/ Long Term(N)		2000/600	
Crush resistanoe short/long term (N/100mm)		2000/600	
The colour arrangement of fibre and tube is specified in the colour identification table.			
Other structure and fibre count are also available according to customer requirements.			

GYFY
All-Dielectric Optical Fiber Cable GFRP CSM
Stranded Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing opticalfibres and water blocking yarm.
2. Central Strength Mlember: glass fibre reinforced plasticrod (GFRP) coated with PE when needed.
3. Filler Elements: thermoplastic rods.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Ripcord
6. Outer Sheath: black polyethylene

Features and Applications:

Lighting resistance.

Gel-free and Non-metallic structure.

Duct installation and aerial installation.

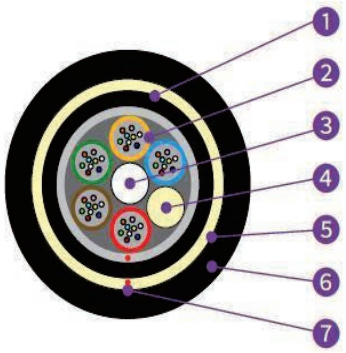
Optical Characteristics:

		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km	-	-
	Design link value (M=20,Q=0.01%)	≤0.10 ps/√km	≤0.10 ps/√km	-	-

Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	2x12	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	2.4					
Central strength member	Material	GFPR					
	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		11.0	11.0	11.6	13.0	16.0	18.5
Cable weight(kg/km)Approx.		100	100	105	120	180	225
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFY63
All-Dielectric Optical Fiber Cable Anti rodent Glass Yarns Double Sheath Duct Installation



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

Features and Applications:

Non-metallic design，good tensile and crush resistance.

Excellent anti-rodent performance.

Duct or direct buried installation.

Semi-dry core design,easy for installation and splice.

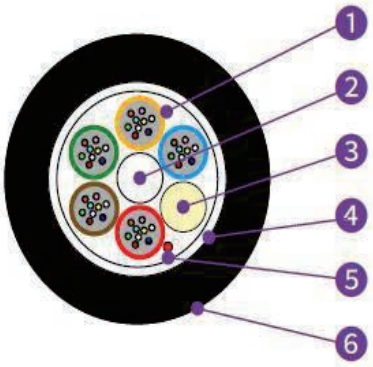
Optical Characteristics:

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

Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4x6	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	Phosphated steel wire					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
water blocking material	Material	Water blocking tape					
Inner Sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Glass yarn					
Outer Sheath	Thickness (mm)	Nominal:2.0					
Cable diameter(mm)Approx.		13.0	13.8	14.6	16.2	19.4	22.2
Cable weight(kg/km)Approx.		145	165	175	205	270	340
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		2200/700					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFY-Semi dry
All-Dielectric Optical Fiber Cable GFRP CSM Stranded Semi-Dry Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing optical fibers and filled with gel.
2. Central Strength Mlember: glass fibre reinforced plasticrod (GFRP) coated with PE when needed.
3. Filler Elements: thermoplastic rods.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Ripcord
6. Outer Sheath: black polyethylene.

Features and Applications:

Non-metallic structureLighting resistance

Duct installation or aerial installation

Semi-dry core design, easy for installation and splice

Optical Characteristics:

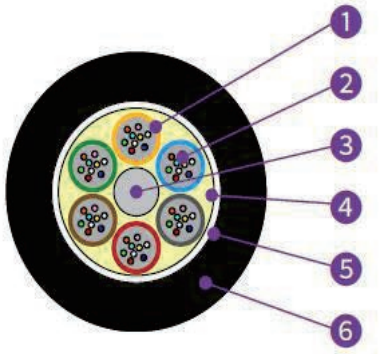
		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Polarization mode dispersion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

Technical Data:

Item	Contents		Value				
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4x6	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	1.9	2.4				
Central strength member	Material	GFPR					
	Diameter (mm)	2.0	2.0	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
water blocking material	Material	Water blocking tape					
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		10.0	10.8	11.6	13.2	16.4	19.2
Cable weight(kg/km)Approx.		85	100	120	155	220	275
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2000/600					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYTA-1
Optical Fiber Cable APL Armored Stranded Loose Tube Duct Installation

The bending insensitive optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The loose tubes with smaller size are stranded to form a cable core. The core is armored with laminated aluminum tape. Then a PE outer sheath is extruded. This structure has a smaller size to enhance installation density of fibres in ducts.



1. Loose Tube: thermoplastic material, containing filled with gel.

2. Optical Fiber: 200um B6a2 Fibre

3. Central Strength Member(CSM): phosphate steel wire.

4. Cable Filling Compound.

5. Longitudinal Water Blocking Material: Water blocking tape.

6 Outer Sheath: black polyethylene with APL Tapes.

Features and Applications:

Accurate process control ensuring good mechanical and temperature performances

The material of loose tubes with good hydrolysis resistance and relatively high strength

Tube filling compound providing the key protection for fibres

Using small-sized B6a2 fibres with good micro and macro bending performance

Comply with IEC60794-3-11(2007): Optical fibre cables- Part 3-11

Water resistance of optical cable is ensured by the following measures: Special water-blocking compound filled in loose tubes Laminated aluminum tape armorCable filling compound ensuring longitudinal water resistance

Technical Characteristics:

Cable Type	Fiber Count	Stranded units	Cable Diameter (mm)	Cable Weight (kg/km)	Bending Radius Dynamic/Static (MM)	Tensile Strength Long/Short Term (N)	Crush Resistance Long/Short Term (N/100 mm)
GYTA≤60	≤60	5	9.8	108	20D/10D	240/800	300/1000
GYTA-62~72	62~72	6	10.4	129	20D/10D	300/850	300/1000
GYTA-74~96	74~96	8	10.6	132	20D/10D	350/1200	300/1000
GYTA-98~120	98~120	10	12.1	161	20D/10D	450/1400	300/1000
GYTA-122~144	122~144	12	13.6	198	20D/10D	700/2000	300/1000

Environmental Characteristics:

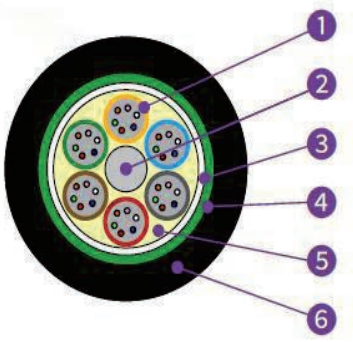
Transport/storage temperature: -40℃ to +70℃

Compound flow: No filling compound or coating compound drop out of optical cable at 70℃

Water penetration: No water comes out within 24 hours after 1m water head is applied to the entire cross section of 3m long optical cable

GYTS-1
Optical Fiber Cable PSP Armored Stranded Loose Tube Duct Installation

In the GYTS cable, single-mode/multimode fibres are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core, and the PSP is longitudinally applied around the cable core before a PE sheath is extruded over it.



1. Loose Tube: thermoplastic material, containing optical fibers and filled with gel.
2. Central Strength Member(CSM): phosphate steel wire.
3. Armor: corrugated steel tape.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Cable Filling Compound
6. Outer Sheath: black polyethylene.

Features:

Excellent mechanical and temperature performance guaranteed by the accurate excess fibre length

Critical protection to fibres, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube

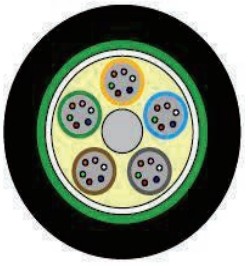
Excellent crush resistance and flexibility

Excellent ultraviolet prevention with PE sheath

The following measures are taken to ensure the water blocking performance of the cable:
- Single steel wire used as the central strength member
- Special water-blocking filling compound in the loose tube
- 100% cable core filling
- PSP moisture barrier

Technical Characteristics:

Cable Type	Fiber Count	Tubes + Fillers	Max. No. of Fibers in Tube	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short Term (N)	Crush Resistance Long/Short Term (N/100 mm)
GYTS-2~30	2~30	5	6	9.8	-	600/1500	300/1000
GYTS-32~36	32~36	6	6	10.4	-	600/1500	300/1000
GYTS-38~60	38~60	6	12	10.6	-	600/1500	300/1000
GYTS-62~72	62~72	6	12	12.1	-	600/1500	300/1000
GYTS-74~96	74~96	8	12	12.1	-	600/2000	300/1000
GYTS-98~120	98~120	10	12	15.8	-	600/2500	300/1000
GYTS-122~144	122~144	12	12	15.8	-	600/2500	300/1000

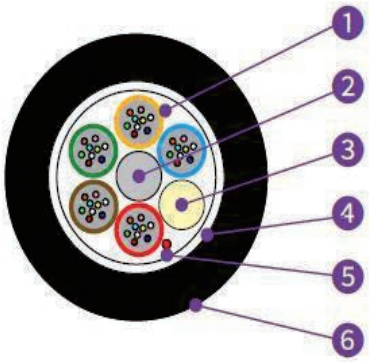


GYTS-30

GYTS-36

GYTS-96

GYTY
Optical Fiber Cable Non Armored Stranded Loose Tube Duct Installation



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

Features and Applications:

High tensile strength and semi-dry core design.

Specially designed for easy sheath removal.

Duct installation or aerial installation.

Optical Characteristics:

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

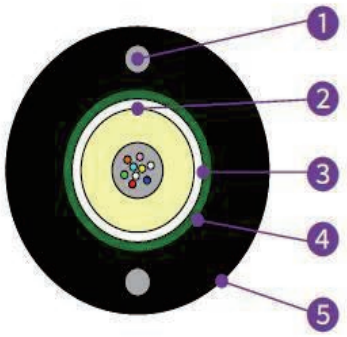
Technical Data:

Item	Contents		Value				
	Fiber Count	12	24	48	72	96	144
Loose Tube	No. of tubes*fibres per tube	2x6	2x12	4x12	6x12	8x12	12x12
	Outer diameter (mm)	1.9	2.1				
Central strength member	Material	Phosphate steel wire					
	Diameter (mm)	1.8				2.0	2.0
	Coated CSM diameter (mm)	2.3				3.5	6.1
water blocking material	Material	Water blocking tape					
Outer Sheath	Thickness (mm)	Nominal:1.6					
Cable diameter(mm)Approx.		9.9	10.4	10.4	10.4	11.5	14.2
Cable weight(kg/km)Approx.		88	88	90	92	120	160
Operating temperature range(℃)		-20~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		2000/600					

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYXTW
Optical Fiber Cable PSP Armored Central Tube Duct Installation



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

Features and Applications:

High crush resistance.

Small diameter and light weight.

Duct or direct buried installation or aerial installation together with tension strand wire.

Optical Characteristics:

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

Technical Data:

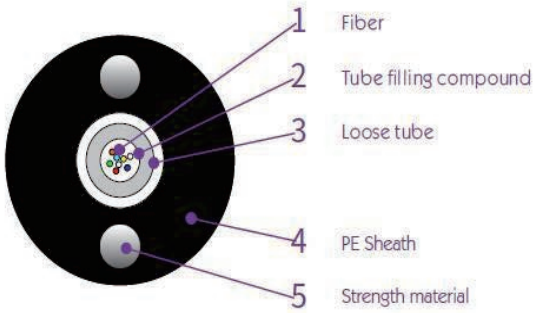
Item	Contents	Value		
	Fibre Count	6	12	24
Loose Tube	No. of tubes*fibres per tube	1x6	1x12	1x24
	Outer diameter (mm)	3.0	3.0	3.2
Water blocking tape	Longitudinal Water Blocking Material			
Armor	Corrugated steel tape			
Outer Sheath	Black polyethylene			
Strength Member	Two phosphate steel wires (Diameter 1.2mm)			
Cable diameter(mm) Approx.	10.6			
Cable weight(kg/km) Approx.	100			
Operating temperature range(℃)	-40~+70			
Tensile Strength Short/ Long Term(N)	1500/600			
Crush resistance short/long term (N/100mm)	3000/1000			

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYXY
Optical Fiber Cable Non Armored Central Tube Duct Installation

The fibers, 250 μ m, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel steel wires are placed at the two sides. The cable is completed with a polyethylene (PE) sheath.



Characteristics:

Good mechanical and temperature performance

High strength loose tube that is hydrolysis resistant

Special tube filling compound ensure a critical protection of fiber

Two parallel steel wires ensure tensile strength

PE sheath protects cable from ultraviolet radiation

Two parallel steel wires ensure tensile strength

Small diameter, light weight and friendly installation

Optical Characteristics:

		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Numerical Aperture		-	-	0.200±0.015NA	0.275±0.015NA
Cable Cut-off Wavelength λcc		≤1260nm	≤1260nm	-	-

Technical Characteristics:

Cable Type	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Bending Radius Dynamic/Static (MM)	Tensile Strength Long/Short Term (N)	Crush Resistance Long/Short Term (N/100 mm)
GYXY-2~12	2~12	9.5	90	10D/20D	600/1500	300/1000
GYXY-12~24	12~24	10.2	100	10D/20D	1000/3000	300/1000

Storage/Operating temperature: -40℃ to +70℃

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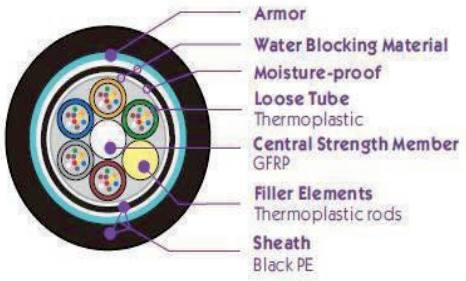
Direct Buried Installation Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

GYFTA53 -1
Direct Buried Installation Optical Fiber Cable
Double Sheath PSP APL Enhanced Armor



Application:

Good crush resistance

Direct buried installation

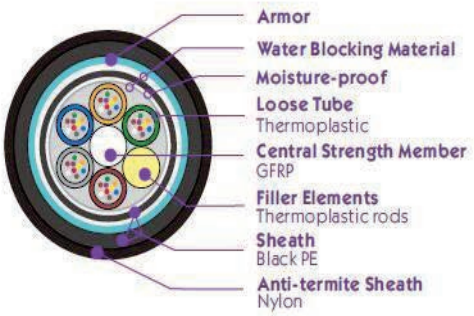
Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4	2.4
Central strength member	Material	FRP					
	Diameter (mm)	2.25	2.6	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.2	4.8
Water Blocking material	Material	Cable filling compound					
Moisture-proof	Material	Laminated aluminum tape					
Inner Sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Corrugated steel tape					
Outer Sheath	Thickness (mm)	Nominal:2.0					
Cable diameter(mm)Approx.		14.2	15.0	15.0	16.8	20.0	22.4
Cable weight(kg/km)Approx.		210	230	230	280	350	440
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		1000/300					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFTA54-1
Anti-Rodent Direct Buried Installation Optical Fiber Cable
Double PE Nylon Sheath PSP Glass Yarns Tape Enhanced Armor



Application:

Rodent and termite resistance

Good crush resistance

Direct buried installation

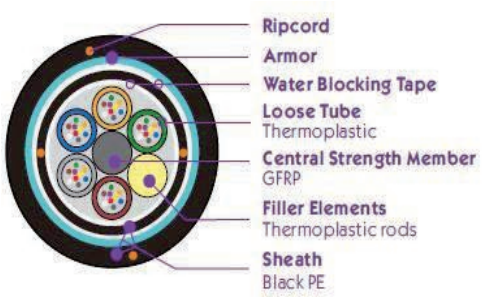
Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4	2.4
Central strength member	Material	FRP					
	Diameter (mm)	2.25	2.6	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.2	4.8
Water Blocking material	Material	Cable filling compound					
Moisture-proof	Material	Laminated aluminum tape					
Inner Sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Corrugated steel tape					
Middle Sheath	Thickness (mm)	Nominal:1.5					
Outer Sheath	Thickness (mm)	Nominal:0.5					
Cable diameter(mm)Approx.		14.4	15.0	15.0	16.8	20.0	22.4
Cable weight(kg/km)Approx.		225	250	250	300	370	465
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		3000/1000					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

GYFY53
Direct Buried Optical Fiber Cable
FRP CSM Double Sheath PSP Enhanced Armor



Application:

Excellent crush resistance

Direct buried installation

Semi-dry core design, easy for installation and splice

Characteristics:

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

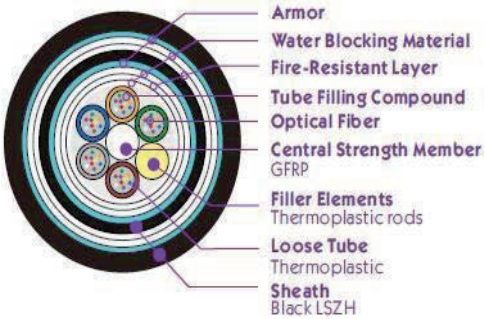
Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4	2.4
Central strength member	Material	FRP					
	Diameter (mm)	2.25	2.6	2.6	2.6	2.6	2.6
	Coated CSM diameter (mm)	-	-	-	4.2	7.4	4.8
Water Blocking material	Material	water blocking tape					
Inner Sheath	Thickness (mm)	Nominal:1.0					
Armor	Material	Corrugated steel tape					
Outer Sheath	Thickness (mm)	Nominal:2.0					
Cable diameter(mm)Approx.		14.4	15.4	15.4	16.8	20.2	22.4
Cable weight(kg/km)Approx.		200	230	230	270	350	430
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		3000/1000					

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYFZS53
Direct Buried Fire resistant Optical Fiber Cable
Double Sheath PSP Enhanced Armor



Application:

Semi-dry core design, easy for installation and splice. Good flame retardant and fire resistance performance.

Fully comply with IEC 60332-1-2, IEC 60332-3-24, IEC 60331-11/25 (comply 750°C*90Minutes), IEC 60754-1~2, IEC 61034(smoke density ≥50%)

Suitable for the telecom system in the subway, tunnel and mine.

Characteristics:

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

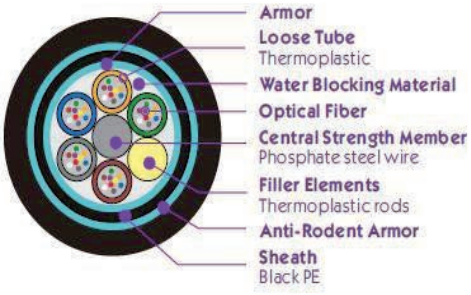
Technical Data:

Item	Contents	Value					
	Fiber Count	12	36	72	96	144	192
Loose Tube	No. of tubes*fibres per tube	1*12	3*12	6*12	8*12	12*12	16*12
	Outer diameter (mm)	2.1	2.1	2.1	2.1	2.1	2.1
Central strength member	Material	FRP					
	Diameter (mm)	2.25	2.25	2.25	2.25	2.6	2.25
	Coated CSM diameter (mm)	-	-	-	3.7	6.1	-
Water Blocking material	Material	Water blocking yarn or tape					
Fire-Resistant Layer	1ST Inner Layer	Mica tape.					
Armor	Material	Corrugated steel tape					
Outer Sheath	Thickness (mm)	Nominal:2.0					
Cable diameter(mm)Approx.		16.5	16.5	16.5	18.1	21.5	21.5
Cable weight(kg/km)Approx.		280	280	280	350	520	560
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistanoe short/long term (N/100mm)		3000/1000					

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.

GYTS53
Direct Buried Installation Optical Fiber Cable
Double Sheath PSP Enhanced Armor



Application:

Excellent Anti-rodent performance.

Excellent crush resistance

Direct-buried installation and aerial installation.

Characteristics:

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

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	4*6	4*12	6*12	8*12	12*12	24*12
	Outer diameter (mm)	1.9	2.4	2.4	2.4	2.4	2.4
Central strength member	Material	Phosphated steel wire					
	Diameter (mm)	2.0	2.0	2.0	2.0	2.0	2.0
	Coated CSM diameter (mm)	-	2.6	2.6	4.2	7.4	4.8
Water Blocking material	Material	Cable filling compound					
Armor	Material	Corrugated steel tape					
Inner Sheath	Thickness (mm)	Nominal:1.0					
Anti-Rodent Armor	Material	Corrugated steel tape					
Outer Sheath	Thickness (mm)	Nominal:2.0					
Cable diameter(mm)Approx.		14.2	15.7	15.7	17.5	21.0	23.0
Cable weight(kg/km)Approx.		230	265	265	305	390	460
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		3000/1000					
Crush resistanoe short/long term (N/100mm)		3000/1000					
The colour arrangement of fibre and tube is specified in the colour identification table.							
Other structure and fibre count are also available according to customer requirements.							

zion communication

Air Blown Micro Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Air Blown Micro Optical Fiber Cable for FTTx Network

Introduction:

Merits of Air-blown Micro Ducts and Micro Cables
The technology of air-blown micro ducts and micro cables is a kind of high-tech.Compared with optical cables laid in the traditional ways, air-blown micro cables have the following merits:
·It improves duct utilization and increases fibre density The technology of air-blown micro ducts and micro cables minimizesthe sizes ofcables, ducts and accessories,fully exploiting duct space and saving construction costs.
·It reduces construction costs and thus increases
economic benefits
Compared with the traditional ways of laying cables, construction costs with this technology are low. Thus duct rent can be reduced remarkably and the management interface can be defined clearly.It is the best technology for collaborative construction and sharing of resources.
· It allows more flexible network construction
Airblown micro ducts and micro cables are applicable to the whole FTTx network. They require only one-time installation in the feeder segment and can be branched at the drop section on request. Complex procedures like splice of traditional cables are avoided, thus allowing much more flexible network construction.

Performance Comparison of Air-blown Micro Cables:

ZION provides a full range of air-blown micro cables including enhanced performance fibre units,uni-tube air-blown micro cable,stranded loose tube air-blown micro cable,and down sized air-blown micro cable using special fibres. Different categories of air-blown micro cables have different features and applications.

Category	Characteristics	Blowing effect	Application
Enhanced Performance Fibre Unit (EPFU)	1.Small size 2.Light Weight 3. Good Bending performance 4. Suitable Indoor installation	3Stars***	FTTH
Uni-Tube air-blown micro cable (GCYFXTY)	1.Small size 2.Light Weight 3.Good tensile and crush resistance	4Stars****	Power system Lighting-prone areas
Stranded Loose Tube air-blown micro cable (GCYFY)	1.High fibre density 2.High duct utilization 3.Much less initialvestment	5Stars*****	FTTH Metropolitan area Access networks

EPFU
Enhanced Performance Fibre Units Air-Blown Micro Optical Fiber Cable For FTTx Network FTTH

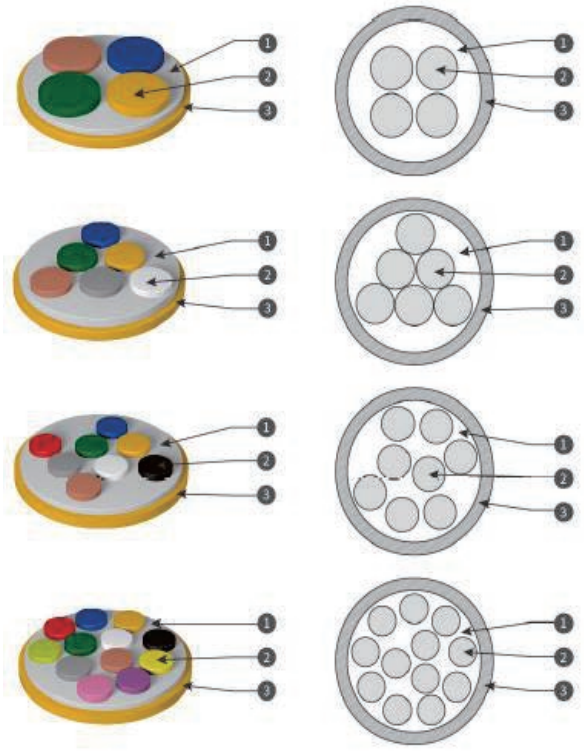
Introduction:

Optical fibers and filler elements are placed in parallel in the photosensitive resin to form the cable core. Finally, a low-friction material is extruded outside the core to form an outer sheath, Designed with special grooves to advance blowing distance and can be used to lay the optical cable using air blowing equipment.

Features:

- 2、4、6、8 and 12 fibres options. G657A2 Bending insensitive fibers.
- Stable structure, good mechanical and temperature performance.
- Designed with special grooves to advance blowing distance.
- Lightweight and proper stiffness , repeat installation.
- Designed with no gel, easy stripping and handling.
- Better costs advantage compared to traditional product.
- Complete accessories, less manpower, lower installation time.

Cross Section:



1, Resin 2, Fibress 3, Low Friction Groove Sheath

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Performance Comparison of Air-blown Micro Cables:

Category	Characteristics	Blowing effect	Application
Enhanced Performance Fibre Unit (EPFU)	1.Small size 2.Light Weight 3. Good Bending performance 4. Suitable Indoor installation	3Stars***	FTTH
Uni-Tube air-blown micro cable (GCYFXTY)	1.Small size 2.Light Weight 3.Good tensile and crush resistance	4Stars****	Power system Lighting-prone areas
Stranded Loose Tube air-blown micro cable (GCYFY)	1.High fibre density 2.High duct utilization 3.Much less initialvestment	5Stars*****	FTTH Metropolitan area Access networks

Technical Characteristics:

Type	Fiber count	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance short(N/100mm)
EPFU-02 G657A2	2	1.15±0.05	1.15±0.05	0.15G/0.5G	100
EPFU-04 G657A2	4	1.15±0.05	1.15±0.05	0.15G/0.5G	100
EPFU-06 G657A2	6	1.15±0.05	1.15±0.05	0.15G/0.5G	100
EPFU-08 G657A2	8	1.15±0.05	1.15±0.05	0.15G/0.5G	100
EPFU-12 G657A2	12	1.15±0.05	1.15±0.05	0.15G/0.5G	100

Note: G is the weight of optical cable 1kilometer

Blowing Characteristics:

Fibre Count	2	4	6	8	12
Duct diameter	5.0/3.5 mm	5.0/3.5 mm	5.0/3.5 mm	5.0/3.5 mm	5.0/3.5 mm
Blowing pressure	8bar/10bar	8bar/10bar	8bar/10bar	8bar/10bar	8bar/10bar
Blowing distance	500m/1000m	500m/1000m	500m/1000m	500m/1000m	500m/800m
Blowing time	15min/30min	15min/30min	15min/30min	15min/30min	15min/30min

Applications:

The cable can be used as the indoor drop cable in FTTH networks and can be laid by air blowing with a handheld device,to connect the family multimedia information boxes with the access point for subscribers.

Delivery Length:

Standard length:2000m;Other length availabe

Enhanced Performance Fibre Units (EPFU)
Air-blown Micro Optical Fibre Cables for C-NET

Micro air-blown fiber unit (MABFU)

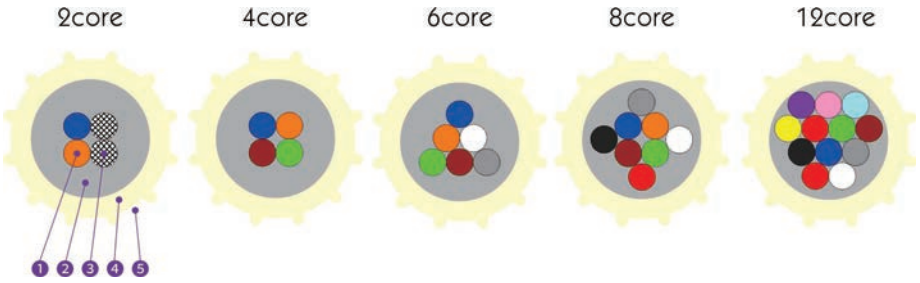
Introduction:

MABFU is the important part of the air blown fibre cable, and it is the most popular product of the indoor optical fibre cables for generic cabling in Europe、Japan 、South Korea and so on.
The MABFU is the product that with small diameter, lightweight, highly flexibility and proper stiffness, and it can be blown into the microduct of 5.0/3.5mm. The fibres are coated with a soft acrylate resin which provides excellent dimensional and thermal stability to cushion the fibres, in addition, the resin can be easily stripped in connecting the fibres. The outer sheath is a thermoplastic that is of low friction.
The surface of the sheath is designed with special grooves, compared to the surface of the traditional optical fibre cable, it provides not only the high level of mechanical protection, but also the perfect blowing performance.

Features and Benefits:

- 2、4、6、8 and 12 fibres options.
- Stable structure, good mechanical and temperature performance.
- Designed with special grooves to advance blowing distance.
- Lightweight and proper stiffness , repeat installation.
- Designed with no gel, easy stripping and handling.
- Better costs advantage compared to traditional product.
- Complete accessories, less manpower, lower installation time.

Cross Section:



1,Optical Fibre 2,Resin 3,+2"Filled" Fibress 4, Low Friction Sheath 5, Groove

Standards:

Unless otherwise specified in this specification, all requirements shall be mainly in accordance with the following standard specifications.

Optical Fibre:	ITU-T G.652、G.657 IEC 60793-2-50
Optica Cable:	IEC 60794-1-2、IEC 60794-5

Basic Performance :

Fibre Count	2 Fibres	4 Fibres	6 Fibres	8 Fibres	12 Fibres
Outer Diameter (mm)	1.15±0.05	1.15±0.05	1.35±0.05	1.15±0.05	1.65±0.05
Weight (g/m)	1.0	1.0	1.3	1.8	2.2
Min Bend radius (mm)	50	50	60	80	80
Temperature	Storage：-30℃ ～ +70℃ Operation：-30℃ ～ +70℃ Installation：-5℃ ～ +50℃				
Cable service life	25 years				

Note: It is recommended that the structure of 2 fibres unit consist of 2 filled fibres, for it is proved that 2 fibres unit with 2 filled fibres is better than the one with zero or one filled fibre in the blowing performance and the fibre stripping-ability

Testing parameter :

Fibre Unit Attenuation

Fibre Type	SM G.652D 、G.657
Attenuation	0.40dB/km max @1310nm
	0.30dB/km max @1550nm

Blowing Test :

Fibre Count	2 Fibres	4 Fibres	6 Fibres	8 Fibres	12 Fibres
Test equipment	PLUMETTAZ：UM25, ERICSSON：F, CATWAY：FBT-1.1				
Standard duct	5.0/3.5 mm				
Pressure	7bar / 10bar				
Typical blowing distance	500m/1000 m	500m/1000 m	500m/1000 m	500m/1000 m	500m/800 m
Typical blowing time	10min/18min	10min/18min	12min/18min	13min/18min	15min/18min

Mechanical Performance :

Test	Standard	Parameters	Test Results
Tension	EN 18700 A1/501 IEC 60794-1-2-E1	Load is 1×W	Additional attenuation ≤0.05dB after test
Bend	IEC 60794-1-2--E11A	Diam 40mm×3turns 5 cycles at 20℃	Additional attenuation ≤0.05dB,after test
Crush	IEC 60794-1-2-E3	100 N, 60s	Additional attenuation ≤0.05dB,after test

All optical testing proceeded at 1550 nm

Environment Performance :

Test	Standard	Parameters	Test Results
Temperature Cycle	IEC 60794-1-2-F1	-30℃, +70℃, (2 cycles)	Absolute attenuation ≤0.5dB/km,during test Additional attenuation ≤0.1dB/km, during and after test
Water Soak	IEC 60794-5	1000 hours in water, 18℃～22℃	(Test after temp cycle) ≤0.07dB/km Change compared to start value
Damp Heat Cycle	IEC 60068-2-38	25℃, 65℃, 25℃, 65℃, 25℃,-10℃, 25℃	Absolute attenuation ≤0.5dB/km,during test Additional attenuation ≤0.1dB/km, during and after test

All optical testing proceeded at 1550 nm

Fibre Color Code :

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

Sheath Color:

- Yellow

Delivery Length :

Standard delivery lengths are 1000m, 2000m, 3000m, 4000m, 6000m with a tolerance of -0.5～+1%.
For more options, please contact the customer service.

Packaging :

Free coiling in the pan.

Fibre Count	Length (m)	Pan Size Φ×H (mm)	Weight (Gross) (kg)
2～4 Fibres	2000 m	φ510 × 200	8
	4000 m	φ510 × 200	10
	6000 m	φ510 × 300	13
6 Fibres	2000 m	φ510 × 200	9
	4000 m	φ510 × 300	12
8 Fibres	2000 m	φ510 × 200	9
	4000 m	φ510 × 300	14
12 Fibres	1000 m	φ510 × 200	8
	2000 m	φ510 × 200	10
	3000 m	φ510 × 300	14
	4000 m	φ510 × 300	15

GCYFXTY
Uni-tube Air-Blown Micro Optical Fiber Cable
For FTTx Network Power system Lighting-prone areas

Introduction:

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube filling compounds.Aramid yarns are placed outside the loose tube as the strength member, then a sheath with grooves is extruded. This type of cable is particularly applicable to air-blowing constructions in access networks.

Features:

- Small size and light weight
- Tube filling compound providing key protection for fibres
- Unique design of sheath with grooves ensuring good air blowing performance
- Allowing to blow by phases to reduce initial investment
- High blowing speed up to 50m/min, and long blowing distance up to 1000m
- Allowing to blow out and replace with new cables to keep technical superiority
- Allowing to cut micro ducts anywhere anytime for branch without influences on other cables, saving manholes, hand holes and cable joints

Cross Section:

1, PE Sheath with Groove 2, Aramid Yarn 3, Fibress 4, Tube Filling Compound 5,Loose Tube

Performance Comparison of Air-blown Micro Cables:

Category	Characteristics	Blowing effect	Application
Enhanced Performance Fibre Unit (EPFU)	1.Small size 2.Light Weight 3. Good Bending performance 4. Suitable Indoor installation	3Stars***	FTTH
Uni-Tube air-blown micro cable (GCYFXTY)	1.Small size 2.Light Weight 3.Good tensile and crush resistance	4Stars****	Power system Lighting-prone areas
Stranded Loose Tube air-blown micro cable (GCYFY)	1.High fibre density 2.High duct utilization 3.Much less initialvestment	5Stars*****	FTTH Metropolitan area Access networks

Technical Characteristics:

Type	Fiber count	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance Long/short (N/100mm)
GCYFXTY-02 G657A2	2	2.3±0.05	4.0±0.1	0.15G/0.5G	150/450
GCYFXTY-04 G657A2	4	2.3±0.05	4.0±0.1	0.15G/0.5G	150/450
GCYFXTY-06 G657A2	6	2.3±0.05	4.0±0.1	0.15G/0.5G	150/450
GCYFXTY-08 G657A2	8	2.3±0.05	4.0±0.1	0.15G/0.5G	150/450
GCYFXTY-12 G657A2	12	2.3±0.05	4.0±0.1	0.15G/0.5G	150/450
GCYFXTY-24 G657A2	24	2.7±0.05	6.5±0.1	0.15G/0.5G	150/450

Note: G is the weight of optical cable 1kilometer

Blowing Characteristics:

Fibre Count	2	4	6	8	12
Duct diameter	5.0/3.5 mm	5.0/3.5 mm	5.0/3.5 mm	5.0/3.5 mm	5.0/3.5 mm
Blowing pressure	8bar/10bar	8bar/10bar	8bar/10bar	8bar/10bar	8bar/10bar
Blowing distance	500m/1000m	500m/1000m	500m/1000m	500m/1000m	500m/800m
Blowing time	15min/30min	15min/30min	15min/30min	15min/30min	15min/30min

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

Applications:

The cable can be used as the drop cable of distribution segments in FTTH networks and can be laid by air blowingto connect the branch point with the access point for subscribers. The cable is also applicable in backbone networks,metropolitan area networks and access networks

Delivery Length:

Standard length:2000m;Other length availabe

GCYFY
Stranded Loose Tube Air-blown Micro Fiber Optic Cable for FTTH Metropolitan area Access networks

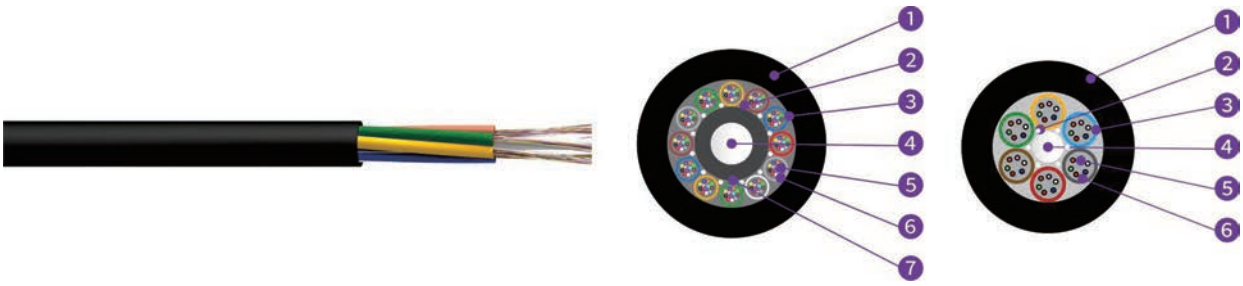
Introduction:

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube filling compounds.Aramid yarns are placed outside the loose tube as the strength member, then a sheath with grooves is extruded. This type of cable is particularly applicable to air-blowing constructions in access networks.

Features:

- Small size and light weight
- Tube filling compound providing key protection for fibres
- Unique design of sheath with grooves ensuring good air blowing performance
- Allowing to blow by phases to reduce initial investment
- High blowing speed up to 50m/min, and long blowing distance up to 1000m
- Allowing to blow out and replace with new cables to keep technical superiority
- Allowing to cut micro ducts anywhere anytime for branch without influences on other cables, saving manholes, hand holes and cable joints

Cross Section:



1, PE Sheath 2, Water Blocking Yarn 3, Loose Tube 4, Strength Member 5, Fibre 6, Tube Filling Compound 7, PE Layer

Performance Comparison of Air-blown Micro Cables:

Category	Characteristics	Blowing effect	Application
Enhanced Performance Fibre Unit (EPFU)	1.Small size 2.Light Weight 3. Good Bending performance 4. Suitable Indoor installation	3Stars***	FTTH
Uni-Tube air-blown micro cable (GCYFXTY)	1.Small size 2.Light Weight 3.Good tensile and crush resistance	4Stars****	Power system Lighting-prone areas
Stranded Loose Tube air-blown micro cable (GCYFY)	1.High fibre density 2.High duct utilization 3.Much less initialvestment	5Stars*****	FTTH Metropolitan area Access networks

Applications:

The cab le can be used as the drop cable of feeder segments in FTTH networks and can be laid by air blowing to connect the branch point with the access point for subscribers. The cab le is also applicable in backbone networks, metropolitan area networks and access networks.

Delivery Length:

Standard length:2000m;Other length availabe

Technical Characteristics:

Type	Fiber count Tube*Fibers	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance Long/short (N/100mm)
GCYFY-12 G657A2	12（2*6）	4.5±0.1	16	0.3G/1.0G	150/500
GCYFY-24 G657A2	24（4*6）	4.5±0.1	16	0.3G/1.0G	150/500
GCYFY-36 G657A2	36（6*6）	4.5±0.1	16	0.3G/1.0G	150/500
GCYFY-24 G657A2	24（2*12）	5.4±0.1	26	0.3G/1.0G	150/500
GCYFY-48 G657A2	48（4*12）	5.4±0.1	26	0.3G/1.0G	150/500
GCYFY-72 G657A2	72（6*12）	5.4±0.1	26	0.3G/1.0G	150/500
GCYFY-96 G657A2	96（8*12）	6.1±0.1	33	0.3G/1.0G	150/500
GCYFY-144 G657A2	144（12*12）	7.9±0.1	52	0.3G/1.0G	150/500
GCYFY-192 G657A2	192（16*12）	7.9±0.1	52	0.3G/1.0G	150/500
GCYFY-216 G657A2	216（18*12）	7.9±0.1	52	0.3G/1.0G	150/500
GCYFY-288 G657A2	288（24*12）	9.3±0.1	80	0.3G/1.0G	150/500
GCYFY-144 G657A2	144（6*24）	7.3±0.1	42	0.3G/1.0G	150/500
GCYFY-192 G657A2	192（8*24）	8.8±0.1	76	0.3G/1.0G	150/500
GCYFY-288 G657A2	288（12*24）	11.4±0.1	110	0.3G/1.0G	150/500
GCYFY-432 G657A2	432（18*24）	11.4±0.1	115	0.3G/1.0G	150/500
GCYFY-576 G657A2	576（24*24）	13.4±0.1	140	0.3G/1.0G	150/500

Note: G is the weight of optical cable 1kilometer

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

GCYFY-Small
Stranded Loose Tube Air-blown Micro Fiber Optic Cable for FTTH

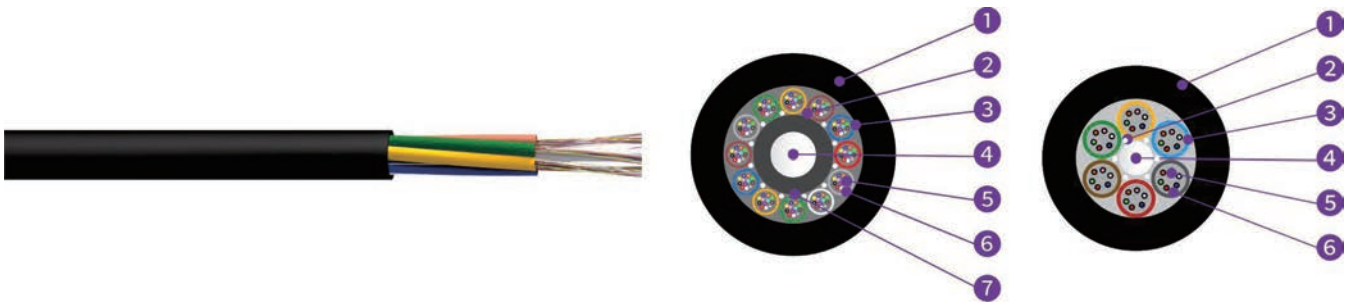
Introduction:

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube filling compounds.Aramid yarns are placed outside the loose tube as the strength member, then a sheath with grooves is extruded. This type of cable is particularly applicable to air-blowing constructions in access networks.

Features:

- Smaller Diameter and light weight
- Tube filling compound providing key protection for fibres
- Unique design of sheath with grooves ensuring good air blowing performance
- Allowing to blow by phases to reduce initial investment
- High blowing speed up to 50m/min, and long blowing distance up to 1000m
- Allowing to blow out and replace with new cables to keep technical superiority
- Allowing to cut micro ducts anywhere anytime for branch without influences on other cables, saving manholes, hand holes and cable joints

Cross Section:



1, PE Sheath 2, Water Blocking Yarn 3, Loose Tube 4, Strength Member 5, Fibre 6, Tube Filling Compound 7, PE Layer

Performance Comparison of Air-blown Micro Cables:

Category	Characteristics	Blowing effect	Application
Enhanced Performance Fibre Unit (EPFU)	1.Small size 2.Light Weight 3. Good Bending performance 4. Suitable Indoor installation	3Stars***	FTTH
Uni-Tube air-blown micro cable (GCYFXTY)	1.Small size 2.Light Weight 3.Good tensile and crush resistance	4Stars****	Power system Lighting-prone areas
Stranded Loose Tube air-blown micro cable (GCYFY)	1.High fibre density 2.High duct utilization 3.Much less initialvestment	5Stars*****	FTTH Metropolitan area Access networks

Applications:

The cab le can be used as the drop cable of feeder segments in FTTH networks and can be laid by air blowing to connect the branch point with the access point for subscribers. The cab le is also applicable in backbone networks, metropolitan area networks and access networks.

Delivery Length:

Standard length:2000m;Other length availabe

Technical Characteristics:

Type	Fiber count Tube*Fibers	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance Long/short (N/100mm)
GCYFY-24 G657A2	24（2*12）	4.5±0.1	16	0.3G/1.0G	150/500
GCYFY-48 G657A2	48（4*12）	4.5±0.1	16	0.3G/1.0G	150/500
GCYFY-72 G657A2	72（6*12）	4.5±0.1	16	0.3G/1.0G	150/500
GCYFY-96 G657A2	96（8*12）	5.6±0.1	26	0.3G/1.0G	150/500
GCYFY-144 G657A2	144（12*12）	7.2±0.1	43	0.3G/1.0G	150/500
GCYFY-192 G657A2	192（16*12）	7.8±0.1	48	0.3G/1.0G	150/500
GCYFY-216 G657A2	216（18*12）	7.8±0.1	48	0.3G/1.0G	150/500
GCYFY-240 G657A2	240（20*12）	7.8±0.1	48	0.3G/1.0G	150/500
GCYFY-288 G657A2	288（24*12）	8.1±0.1	58	0.3G/1.0G	150/500
GCYFY-144 G657A2	144（6*24）	6.2±0.1	32	0.3G/1.0G	150/500
GCYFY-192 G657A2	192（8*24）	7.2±0.1	48	0.3G/1.0G	150/500
GCYFY-240 G657A2	240（10*24）	8.1±0.1	58	0.3G/1.0G	150/500
GCYFY-288 G657A2	288（12*24）	9.3±0.1	80	0.3G/1.0G	150/500
GCYFY-432 G657A2	432（18*24）	9.6±0.1	78	0.3G/1.0G	150/500
GCYFY-576 G657A2	576（24*24）	11.2±0.1	110	0.3G/1.0G	150/500

Note: G is the weight of optical cable 1kilometer

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

zion communication

Cabling in Buildings
Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Optical Fiber Cable for Cabling in Buildings

Introduction:

Optical cables for cabling vertical wiring in buildings, which is a major component of the drop segment in FTTxnetworks, refer to the drop cables going from ducts in buildings into rooms.Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.

Features:

Good flame-retardant performance ensuring communication under fire conditions
Small size and light weight, allowing large transmission capacity in limited space
Good mechanical performance, including anti-bending and good tensile performances
Anti-corrosion, water blocking, flame-retardant and environment-friendly
Allowing branching, easy for connection

Product Series:

GJJA	0.9mm Tight buffer
GJFJH	Duplex Tight buffer Fibers with Aramid yarns
GJFJBV	Flat Duplex Tight buffer Fibers with Aramid yarns
GJPFJV	Multi-core Tigh buffer Bundle with Aramid yarns
GJBFV-I	Multi-core Branch with CSM
GJBFJV-II	Multi-core Branch without CSM
GJBFVH	Large Fibre Count Mixed Branch with CSM
GJPFH	Micro-tube Breakout with CSM
GJPFXJH	Breakout Tight Buffer fibers with FRP Strength
GJPFWQH	Micro-tube Breakout with FRP Strength

GJJA
Indoor Fishing-line 0.9mm Tight buffer Fiber Optic Cable for Cabling in Buildings

Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.

Features:

Using G657B3/G657A2 optical fibres, with excellent anti-bending performance
Small size, precisely controlled route
Transparent, suitable for indoor application
Compatiable with G.652D and G.657A2 optical fibres

Cross Section:

1,Transparent Thermopiastic Buffer 2,Fibre

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJJA	0.9	0.7	3.0/6.0	100/500	60/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJFJH
Indoor Duplex Tight buffer Fibers with Aramid yarns Fiber Optic Cable for Cabling in Buildings

Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.The duplex cable uses two 900 μ m or 600 μ m tight buffered fibres as optical transmission medium, covered with aramid yarns as the strength member, then aLSZH sheath is extruded. Other sheath materials are available on request.

Features:

Tight buffered fibres with excellent strippability
Good flame-retardant performance
Aramid yarns providing excellent tensile performance
Anti-corrosion, water blocking, flame-retardant and environment-friendly

Cross Section:

1,TPU/LSZH Sheath 2,Tight Buffered Fibre 3,Aramid Yarn

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJFJH-2Xn	3.5	12.6	400/800	500/1000	60/30

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJFJBV
Indoor Flat Duplex Tight buffer Fibers with Aramid yarns Fiber Optic Cable for Cabling in Buildings

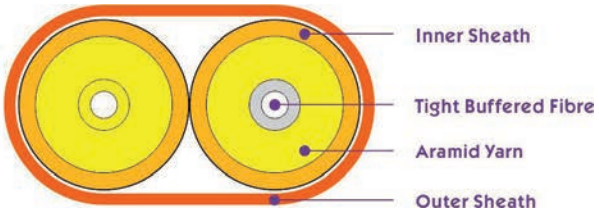
Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The duplex flat optical cable uses two 900 μ m or 600 μ m tight buffered fibres as optical transmission medium, covered with aramid yarns as the strength member. A PVC inner sheath is extruded on each fibres, then a flat PVC outer sheath is extruded. Other sheath materials are available on request.

Features:

Tight buffered fibres with excellent strippability
Good flame-retardant performance
Aramid yarns providing excellent tensile performance
Compact arrangement of fibers due to flat structure
Anti-corrosion, water blocking, flame-retardant and environment-friendly

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJFJBV-2Xn	3.0*5.4	13.8	100/200	100/500	60/30
GJFJBV-2Xn	3.8*7.0	20	100/200	100/500	80/40

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJPFJV
Indoor Multi-core Tigh buffer Bundle with Aramid yarns Fiber Optic Cable for Cabling in Buildings

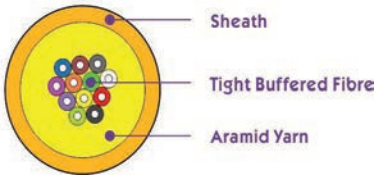
Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The multi-core bundle optical cable uses several 900 μ m or 600um tight buffered fibres as optical transmission medium, covered with aramid yarns as the strength member, then a PVC sheath is extruded.Other sheath materials are available on request.

Features:

Tight buffered fibres with excellent strippability
Good flame-retardant performance
Aramid yarns providing excellent tensile performance
All dielectric design,applicable to lightning prone areas
Anti-corrosion, water blocking, flame-retardant and environment-friendly

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJPFJV-4Xn	5.2	16.2	200/660	300/1000	20D/10D
GJPFJV-6Xn	5.5	20	200/660	300/1000	20D/10D
GJPFJV-8Xn	6.2	26	200/660	300/1000	20D/10D
GJPFJV-12Xn	6.5	31.5	200/660	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJBFJV-I
Indoor Multi-core Branch with CSM Fiber Optic Cable for Cabling in Buildings

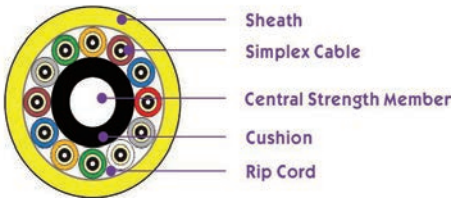
Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The multi-core branch cable luses several simplex optical cables （made of 900 μ m tight buffered fibre and aramid yarns) as optical sub-units. Sub-units are stranded around a non-metallic central strength member to form a cable core. Then a PVC sheath is extruded on the core.Other sheath materials are available on request.

Features:

High tensile strength due tp stranded structure and non metallic central strength member
All dielectric design,applicable to lightning prone areas
Anti-corrosion, water blocking, flame-retardant and environment-friendly

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJBFJV-4Xn	7.2	45.5	200/660	300/1000	20D/10D
GJBFJV-6Xn	9	63	200/660	300/1000	20D/10D
GJBFJV-8Xn	10	84	200/660	300/1000	20D/10D
GJBFJV-12Xn	12.5	148	200/660	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJBFJV-II
Indoor Multi-core Branch
Fiber Optic Cable for Cabling in Buildings

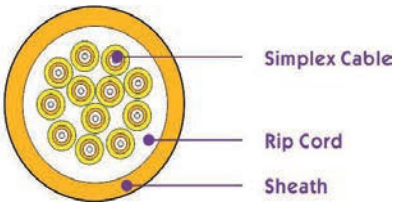
Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The multi-core branch cable II uses several simplex optical cables（made of 900 μ m tight buffered fibre and aramid yarns) as optical sub-units. Sub-units are stranded together to form a cable core. Then a PVCsheath is extruded on the core.Other sheath materials are available on request.

Features:

High tensile strength due tp stranded structure and non metallic central strength member
All dielectric design,applicable to lightning prone areas
Anti-corrosion, water blocking, flame-retardant and environment-friendly

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJBFJV-II -12Xn	10.8	115	200/660	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJBFJVH
Indoor Large Fibre Count Mixed Branch with CSM Fiber Optic Cable for Cabling in Buildings

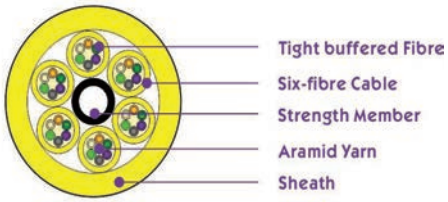
Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The large fibre count mixed branchoptical cable uses 6F optical cables（made of 900 μ m tight buffered fibre and aramid yarns) as optical sub-units. Sub-units are stranded around a non-metallic central strength member to form a cable core. Then a PVC sheath is extruded on the core.Other sheath materials are available on request.

Features:

High tensile strength due tp stranded structure and non metallic central strength member
High fiber density,large capacity and compact structure
All dielectric design,applicable to lightning prone areas
Anti-corrosion, water blocking, flame-retardant and environment-friendly

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJBFJVH -36Xn	15.6	320	400/1320	300/1000	680/340
GJBFJVH -48Xn	17.6	340	400/1320	300/1000	680/340
GJBFJVH -64Xn	22	360	400/1320	300/1000	680/340
GJBFJVH -72Xn	22.5	650	400/1320	300/1000	680/340
GJBFJVH -96Xn	25.5	680	400/1320	300/1000	680/340

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJPFH
Indoor Micro-tube Breakout with CSM Fiber Optic Cable for Cabling in Buildings

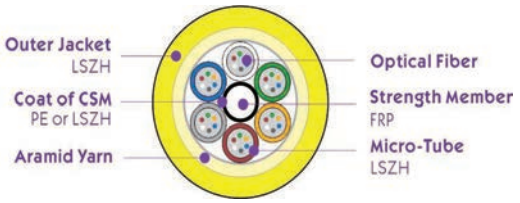
Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The indoor micro-tube breakout optical cable uses micro-tubes(made of optical fibres and special material) as optical sub-units. Sub-units are stranded around a non-metallic central strength memberto form a cable core. Then a PVC sheath isextruded on the core. Other sheath materials are available on request.

Features:

Accurate process controlensuring good mechanical and temperature performances
Good structure design, easy for branching and splicing
Small ize and light weight, easy for installation
LSZH sheath ensuring good flame-retardant performance
Especially applicable to vertical wiring in buildings

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJPFH -12Xn	5.5	25	200/600	300/1000	20D/10D
GJPFH -24Xn	7.1	40	200/660	300/1000	20D/10D
GJPFH -48Xn	7.6	47	400/1320	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJPFXJH
Indoor Breakout Tight Buffer fibers with FRP Strength Fiber Optic Cable for Cabling in Buildings

Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
Several 900 μ m tight buffered fibres are housed in the LSZH sheath with a special cross section. Two FRPs are placed in parallel as the strength member. An external mark of the sheath indicates the direction of opening.

Features:

Accurate process controlensuring good mechanical and temperature performances
Good structure design, easy for branching and splicing
Small ize and light weight, easy for installation
LSZH sheath ensuring good flame-retardant performance
Especially applicable to vertical wiring in buildings

Cross Section:

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJPFXJH -2-12Xn	8.5	60	200/500	300/1000	20D/10D
GJPFXJH -16-24Xn	10.5	125	200/500	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

GJPFWQH
Indoor Micro-tube Breakout with FRP Strength Fiber Optic Cable for Cabling in Buildings

Introduction:

Optical cables for vertical wiring in buildings, which is a major component of the drop segment in FTTx networks,refer to the drop cables going from ducts in buildings into rooms. Vertical wiring is mainly applied to high-storey buildings, super high-storey buildings, buildings with high-density subscribers and large information processing centers such as data centers.
The indoor micro-tube breakout optical cable uses micro-tube(made of optical fibres and special material) as optical sub-units. Sub-units are housed in theLSZH sheath with a special cross section. Two FRPs are placed in parallel as the strength member.An external mark of the sheath indicates the direction of opening.

Features:

Accurate process controlensuring good mechanical and temperature performances
Good structure design, easy for branching and splicing
Small ize and light weight, easy for installation
LSZH sheath ensuring good flame-retardant performance
Especially applicable to vertical wiring in buildings

Cross Section:

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static mm
GJPFWQH -12-36Xn	8.5	60	200/500	300/1000	20D/10D
GJPFWQH -48-96Xn	13.5	138	200/500	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Delivery Length:

Standard length:2000m;Other length availabe

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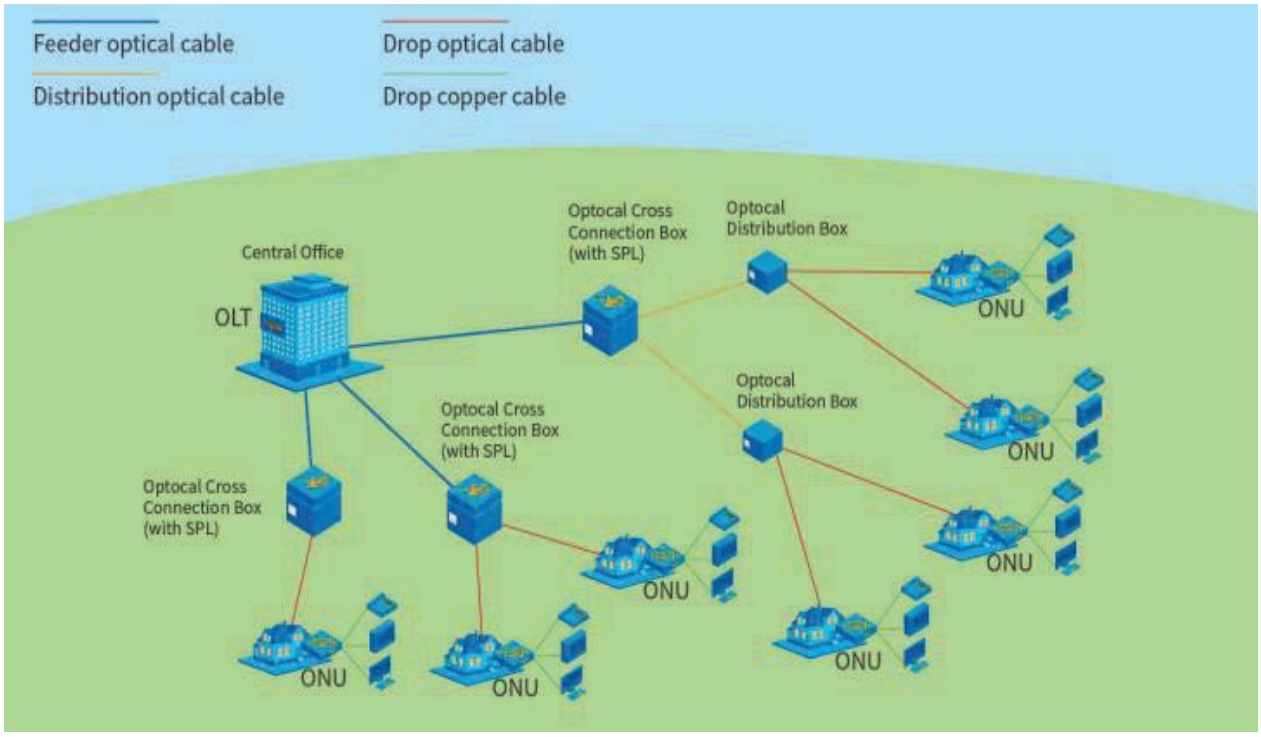
Networks in Rural Areas Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Optical Fiber Cable for Networks in Rural Areas(Vast Countryside)

Introduction:

FTTH networks are divided into urban FTTH networks and non-urban FTTH networks. The optical network in rural areas, which is a non-urban network, is also consisted of the feeder segment, the distribution segment, and the drop segment. The central office is connected to the optical distribution point via feeder cables, then connected to the access point via distribution cables, and finally to the home via drop cables. Compared to the urban FTTH networks, the construction of networks in rural areas is distinctive in cabling due to the environmental differences. At first, the villages with large areas are irregularly scattered and the number of subscribers is small. Secondly, it is difficult to deploy cable in rural areas which are often hilly regions, where cabling in a straight line is not possible. Furthermore, in the lightning-prone and rainy areas of the hilly regions, resistance to electromagnetic interference is required for optical cables. Therefore. the following aspects should be taken into consideration in the construction of optical networks in rural areas:



Low cost: The construction costs of networks should be as low as possible since the return on investment(ROI) in rural areas is low

Interregional differences: Conditions like temperature, humidity, and rodent control differ violently among regions, which have influences on products and construction

Utilization of existing resources: Existing resources in rural areas, such as poles, lines and ducts, should be used as much as possible

Simple construction: Construction in rural areas should be as simple as possible since the operators and constructors are less skillful

Product Series:

1	Feeder segment	GYTA/GYTS	Stranded Loose Tube
2	Distribution segment	GYAXZY	Uni-tube Aramid LSZH Sheath
		GYGXZY	Uni-tube Glass Yarn PE Sheath
		GTJGA	Slotted TBF APL CSM
		GYFXBY	Flat-shape & Self-supporting Uni-tube
		GYAXTC8Y	Figure-8 Self-supporting Uni-tube Aramid
		GYFC8A-3U	3-Unit FRP APL Figure-8 Self-supporting
3	Drop segment	GJXH	Bow-type drop cable

GYAXZY
Uni-tube Non-metallic Aramid Armored LSZH Fire Resistant Sheath Fiber Optic Cable for Networks in Rural Areas Vast Countryside

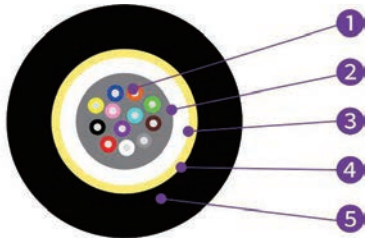
Introduction:

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube fulling compound. The tube is armored with a layer of aramid yarns as the strength member. Then a LSZH sheath is extruded.
In the distribution segment of optical cable networks in rural areas, the cable can be used as drop cables for self-supporting aerial installation to connect branching points with access points for subscribers.

Features:

Good mechanical and temperature performances
All-dielectric design, applicable to lightning-prone areas
Aramid yarns ensuring tensile strength of optical cable
Small size and light weight, easy for installation
Different tensile strength can be designed on request for short-distance self-supporting aerial and duct installations

Cross Section:



1, Fibers 2, Tube Filling Compound 3, Loose Tube 4, Aramid Yarns 5,LSZH sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static
GYAXZY-02-12Xn	6.0(3.0optical unit)	42	600/1500	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYGXY
Uni-tube Non-metallic Glass Yarns Tapes Armored HDPE Sheath Fiber Optic Cable for Networks in Rural Areas Vast Countryside

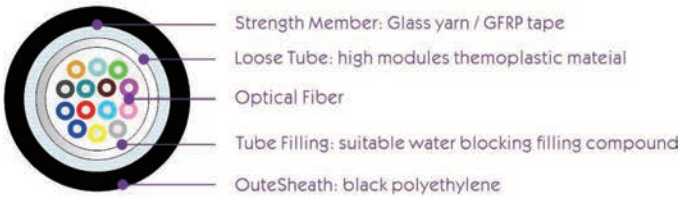
Introduction:

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube fulling compound. The tube is armored with a layer of glass fiber tapes as the strength member. Then a LSZH sheath is extruded.
In the distribution segment of optical cable networks in rural areas, the cable can be used as drop cables for self-supporting aerial installation to connect branching points with access points for subscribers.

Features:

Good mechanical and temperature performances
All-dielectric design, applicable to lightning-prone areas
Aramid yarns ensuring tensile strength of optical cable
Small size and light weight, easy for installation
Glass fiber tape armor providing certin anti-rodent performance

Cross Section:



Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static
GYGXY-02-12Xn	6.0(3.0optical unit)	35	600/1500	300/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GTJGA
Slotted-core Tight Buffered Fibers APL Armored with CSM Fiber Optic Cable for Networks in Rural Areas Vast Countryside

Introduction:

Tight buffered fibres are housed in slots in different numbers as needed. A phosphated steel wire is used as the central strength member. The slotted core is wrapped with water-blocking tape and a rip cord is placed outside the tape. Then the core is armored with laminated aluminum tape and a PE sheath is extruded.
In the distribution segment of optical networks in rural areas, the cable can be used as drop cables for non self-supporting aerial installation to connect branching points with access points for subscribers.

Features:

All-dry design,improving efficiency of construction and splicing
Easy for branching of a singlefibre
Good mechanical and temperature performances
Applicable to outdoor duct or aerial installations,and vertical installation

Cross Section:

1, Rib Mark 2, Strength Member 3, Tight Buffered Fibre 4, Slot 5,Sheath 6,Ripcord 7,APL
8,Water Blocking Tape

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Slot No.	Fiber count per slot	Fiber Diameter
GTJGA-24Xn	11.5(1.2Thickness)	125	6	4	0.55
GTJGA-48Xn	12.8(1.2Thickness)	140	6	8	0.55

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFXBY
Flat-shape & Self-supporting Uni-tube Fiber Optic Cable for Networks in Rural Areas Vast Countryside

Introduction:

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube filling compound. Two glass fibre reinforced plastic(FRP)rods are placed outside the tube in parallel, and water-blockingyarns is placed between the tube and the rods, then a flat-shape PE sheath is extruded.
In the distribution segment of optical networks in rural areas, the cable can be used as drop cables for self-supporting aerial installation to connect branching points with access points for subscribers.

Features:

Accurate process control ensuring good mechanical and temperature performances
Unique flat shape providing excellent crush resistance,applicable to special wedge clamps for installation
Two FRP strength members in parallel close to the tube, easy for stripping
All-dielectric design, applicable to lightning-prone areas
Uni-tube,small ize and light weight, easy for installation

Cross Section:

1, Fibre 2, Strength Member 3, Sheath 4, Tube Filling Compound 5,Water Blocking Yarn 6,Loose Tube

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Diameter FRP	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYFXBY-02-24Xn	4.6*8.1(3.0tube)	35	1.6	400/1400	1000/5000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYAXTC8Y
Figure-8 Steel wire Self-supporting Uni-tube with Aramid Yarns Fiber Optic Cable for Networks in Rural Areas Vast Countryside

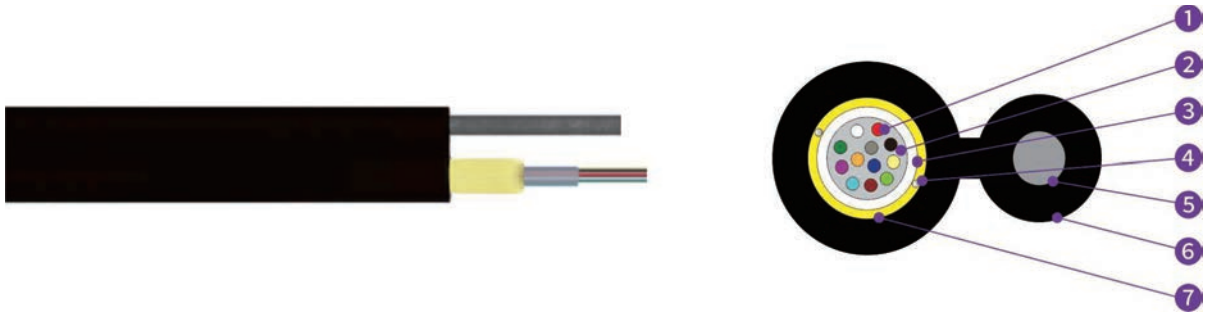
Introduction:

Optical fibres are housed in aloose tube that is made of high-modulus plastic and filled with tube filling compound. The tube is surrounded with dry water blocking materials and armored with aramid yarns. A single steel wire or stranded steel wires are applied as the messenger. Finally, a figure-8 PE sheath is extruded.
In the distribution segment of optical networks in rural areas, the cable can be used as drop cables for self-supporting aerial installation to connect branching points with access points for subscribers.

Features:

Figure-8 design,easy for self-supporting aerial installation,reducing installation costs
Good mechanical and temperature performances
Small size,light weight and soft, easy for installation
Applicable to short distance self-supporting aerial installation

Cross Section:



1, Fibre 2, Tube Filling Compound 3, Loose Tube 4, Water Blocking Tape 5,Steel Wire 6,PE Sheath 7,Aramid Yarn

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Diameter wires	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYAXTC8Y-02-12Xn	5.4*9.5(3.0tube)	45	1.6	600/1500	300/1000
GYAXTC8Y-12-24Xn	5.6*9.8(3.0tube)	45	1.6	600/1500	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFC8A-3U
3-Unit Tube with Fibers FRP Strength APL Tapes Figure-8 Steel wire Self-supporting Micro Optical Cable

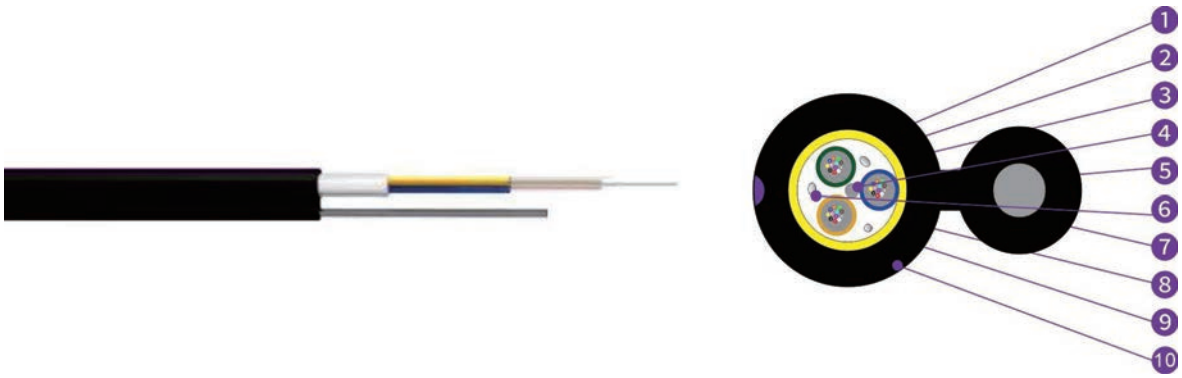
Introduction:

Optical fibres are housed in 3 loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes are stranded around the central strength member to form a cable core.The core is surrounded with water blocking yarns and armored with laminated aluminum tape.A steel wire is applied as the messenger. Finally,a figure-8 PE sheath is extruded.This type of cable is typically applicable to self-supporting aerial installation.

Features:

Figure-8 design,easy for self-supporting aerial installation,reducing installation costs
Good mechanical and temperature performances
Small size,light weight and soft, easy for installation
Applicable to short distance self-supporting aerial installation

Cross Section:



1, Fibre 2,Stripe 3, Loose Tube 4, FRP 5,Tube Filling Compound 6,Water Blocking Yarn 7,Steel Wire 8,APL 9,PE Sheath 10,Ripcord

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Diameter wires	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYFC8A(3U)-02-12Xn	7.5*12.5	62	1.6	600/1500	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

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Route Shortage Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Optical Fiber Cable for Short-Distance Line (Route Shortage)

Introduction:

With the rapid development of metropolitan area networks and access networks, fewer and fewer urban duct and hole resources are available. The improvement of urban municipal construction management makes it harder and harder to acquire approval for excavation and installation of cable systems. However, the communication network structure is scattered geographically, thus the mass installation of optical cables is facing the conflict between high costs and low utilization.The above problems bring challenges such as routing selection and routing shortage to the construction of optical cable cabling.
Based on network construction experience and considerable advantages in optical cable manufacturing,
ZION proposes dedicated optical cables for line shortages.
Optical cable products for different routing scenarios are listed as follows:

GLFXTS Roader Micro-trench Uni-Tube Fibers Aramid PSP Armored
GPTCA63 Ducting laying in Waiver Sewer Stranded Loose Tubes APL Aramid Yarns Armored
GYTA Small 60-144F High-density fibers in Duct Micro Stranded Loose tubes CSM APL Armored

GLFXTS
Roader Micro-trench Uni-Tube Fibers Aramid PSP Armored Fiber Optic Cable for Short-Distance Line (Route Shortage)

Introduction:

It is a kind of optical cable with small diameter,can be laid by cutting a narrow trench on the road surface,burying the optical cable in it and then back filling it to the original road conditions.This optical cable consists of single-mode/multimode fibres,a loose tube,aramid yarns as the strength member,a steel tape armor and a pe sheath.It is featured with light weight,good flexibility,easy installation,low costs and fast installation speed,etc.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Tube filling compound providing key protection for fibres
- Unique design of sheath with steel tapes ensuring good rush performance
- Allowing to laid by micro trench on the road surface directly

Cross Section:

1, Fibers 2, Loose Tube 3, Aramid Yarns 4, PSP 5, Tube Filling Compound 6, Water-Blocking Tape 7,PE sheath

Technical Characteristics:

Type	Fiber count Tube*Fibers	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance Long/short (N/100mm)
GLFXTS-02-12Xn	2-12（1*12）	8.5±0.1(3.0Tube)	70	300/1000	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

Applications:

The cab le can be used as the drop cable of feeder segments in FTTH networks and can be laid by air blowing to connect the branch point with the access point for subscribers. The cab le is also applicable in backbone networks, metropolitan area networks and access networks.

Delivery Length:

Standard length:2000m;Other length availabe

GPTCA63
Ducting laying in Waiver Sewer Stranded Loose Tubes APL Aramid Yarns Armored Fiber Optic Cable for Short-Distance Line (Route Shortage)

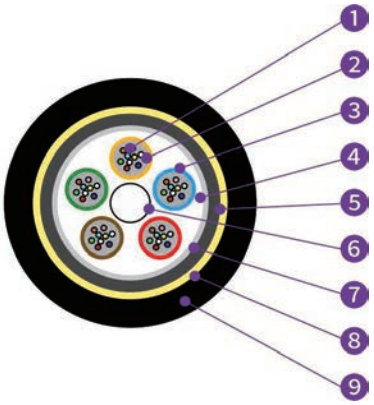
Introduction:

It is a kind of optical cable with self-supporting,can be laid in the storm sewers.Optical fibers are housed in loose tubes that are made of high modulus plastic and filled with tube filling compound,The tubes are stranded around a metallic central strength member to form a cable core,The core is filled with water blocking compound and armored with laminated aluminum tape.Then pe sheath is extruded and aramid yarn are placed outside the inner sheath as the strength member,Final,A PE outer sheath is extruded.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Tube filling compound providing key protection for fibres
- Unique design of sheath with aramid yarn ensuring good tension performance
- Water resistance of optical cable is ensured by the water blocking compound,aluminum tape armor

Cross Section:



1, Fibers 2,Tube Filling Compound 3 Loose Tube with Gel 4,Cable Filling Compound 5,PE Inner Sheath 6,CSM 7, Aluminum Tape(APL) 8, Aramid Yarns 9,PE Outer sheath

Technical Characteristics:

Type	Stranded Units	Max Fibers /Tube	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance Long/short (N/100mm)
GPTCA63-04-30Xn	5	6	13.0±0.1	143	2500	1000/2200
GPTCA63-32-36Xn	6	6	14.0±0.1	190	2500	1000/2200
GPTCA63-38-48Xn	8	6	14.0±0.1	195	3500	1000/2200
GPTCA63-50-72Xn	6	12	15.3±0.1	202	4500	1000/2200
GPTCA63-74-96Xn	8	12	17.0±0.1	260	5500	1000/2200
GPTCA63-98-120Xn	10	12	19.2±0.1	305	6500	1000/2200

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

Applications:

The cab le can be used as the drop cable of feeder segments in FTTH networks and can be laid by air blowing to connect the branch point with the access point for subscribers. The cab le is also applicable in backbone networks, metropolitan area networks and access networks.

Delivery Length:

Standard length:2000m;Other length availabe

GYTA Small 60-144F
High-density fibers in Duct Micro Stranded Loose tubes CSM APL Armored Fiber Optic Cable for Short-Distance Line (Route Shortage)

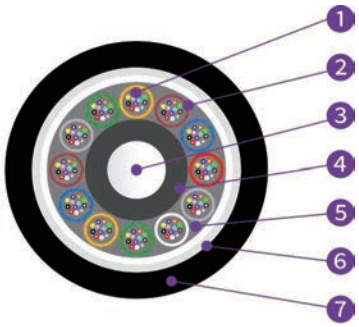
Introduction:

It is a kind of optical cable with bending insensitive optical fibers.Optical fibers are housed in loose tubes that are made of high modulus plastic and filled with tube filling compound,The tubes are stranded around a central strength member to form a cable core,armored with laminated aluminum tape.Final,A PE outer sheath is extruded.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Tube filling compound providing key protection for fibres
- Using small sized fibers with good micro and marco bending performance
- Water resistance of optical cable is ensured by the water blocking compound,aluminum tape armor,cable filling compound ensuring longitudinal water resistance

Cross Section:



1.Fibers, 2.Loose Tube with Gel, 3.CSM, 4.PE Layer, 5.Compound, 6.Aluminum Tape, 7.PE Outer sheath

Technical Characteristics:

Type	Stranded Units	Max Fibers /Tube	Diameter mm	Weight (kg/km)	Tensile Strength Long/Short(N)	Crush Resistance Long/short (N/100mm)
GYTA≤60	5	12	6.9±0.1(1.2Thickness)	48	240/800	300/1000
GYTA 62-72	6	12	7.1±0.1(1.2Thickness)	53	300/850	300/1000
GYTA 74-96	8	12	8.1±0.1(1.2Thickness)	72	350/1200	300/1000
GYTA 98-120	10	12	9.0±0.1(1.2Thickness)	89	450/1400	300/1000
GYTA 122-144	12	12	9.8±0.1(1.2Thickness)	110	700/2000	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

Compound flow:No filling compound or coating compound drop out of optical cable at 70℃

Water penetration:No water comes out within 24 hours after 1m water head is applied to the entire cross section of 3m long optical cable

Delivery Length:

Standard length:2000m;Other length availabe

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Distributed Base Stations Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Optical cables for Distributed Base Stations

Solutions for 4G Business:

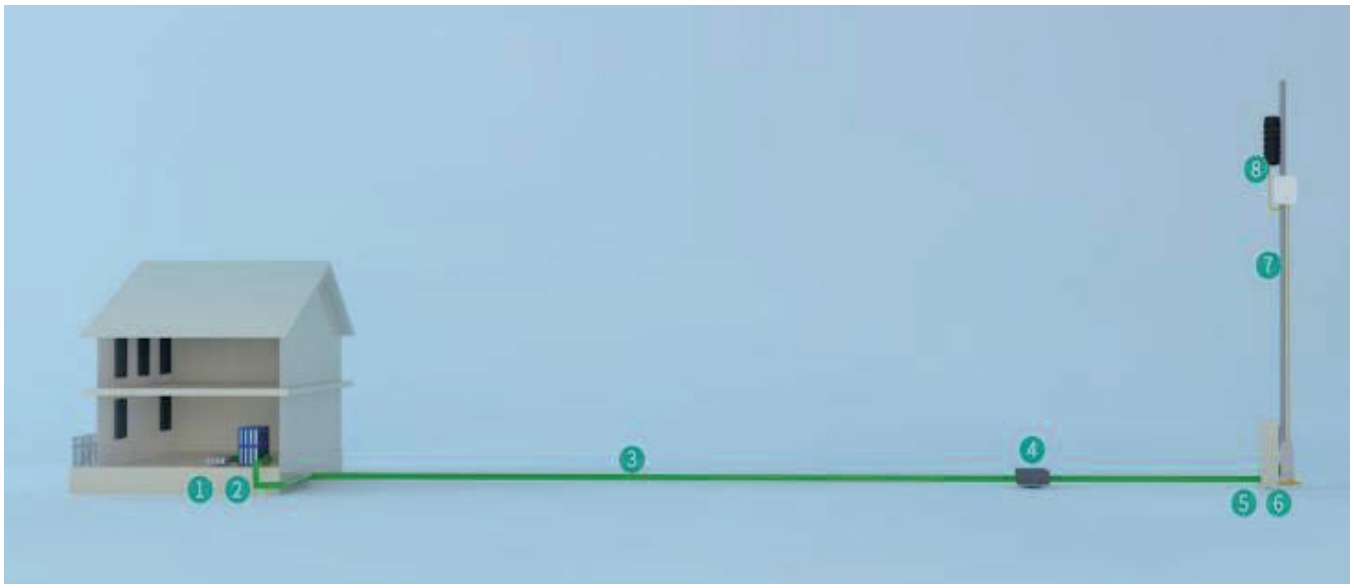
With the construction of 4G networks communication cables and equipment keep extending toward the subscribers. The power supply for equipments of remote base stations.communication rooms,access points for subscribers has become a tough problem. The solution of DC remote power supply by hybrid optical and electrical cables can not only facilitate the centralized construction and maintenance of power supply devices in the network, but also realize the efficient cable transmission of electric energy and optical signals. In addition to solving the aforesaid problems, the solution of DC remote power supply by hybrid optical and electrical cables can reduce the costs of construction and maintenance, and enhance efficiency.

Principle of remote power supply:

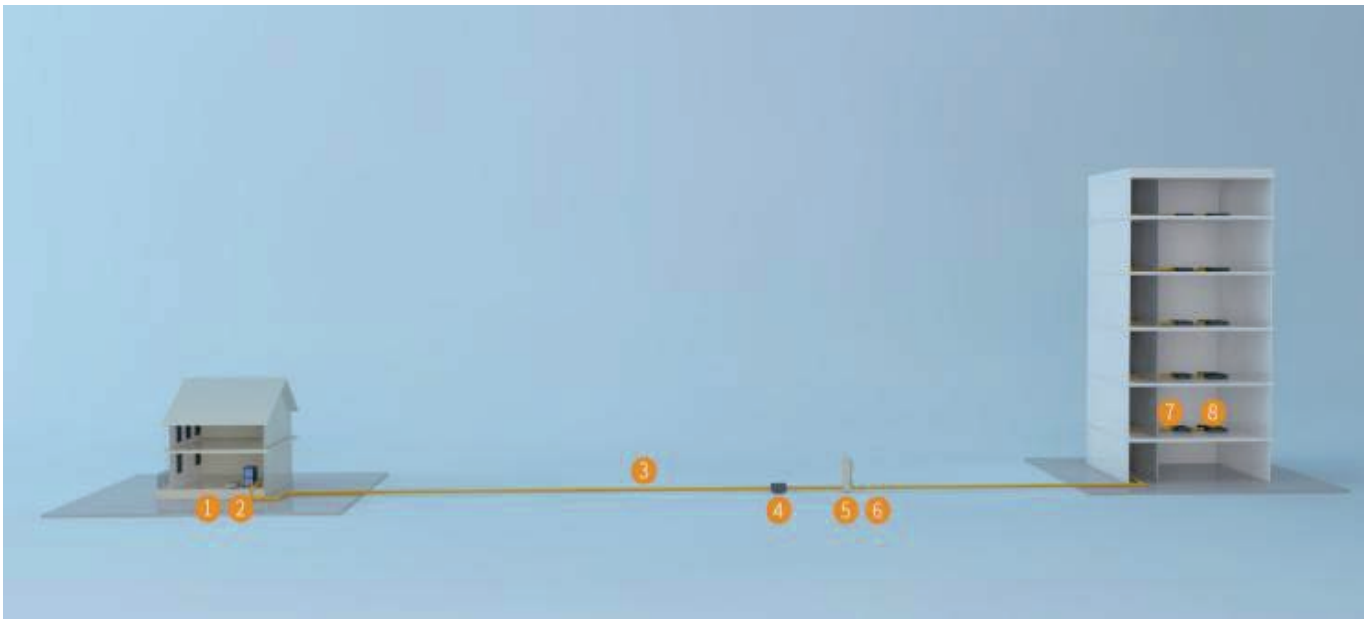
DC remote power supply system consists of a central office terminal (COT) and a remote terminal (RT). The power of COT can be boosted from DC 48V to DC 220~410V(adjustable) and transmitted to RT by hybrid optical and electrical cables, and then dropped to DC 48V(DC 280V might be converted to AC220V) to supply to the loads(RRU, optical fiber repeater, small micro base station, ONU, etc.).In this way, maintenance-free power is all-weather supplied.

Applications:

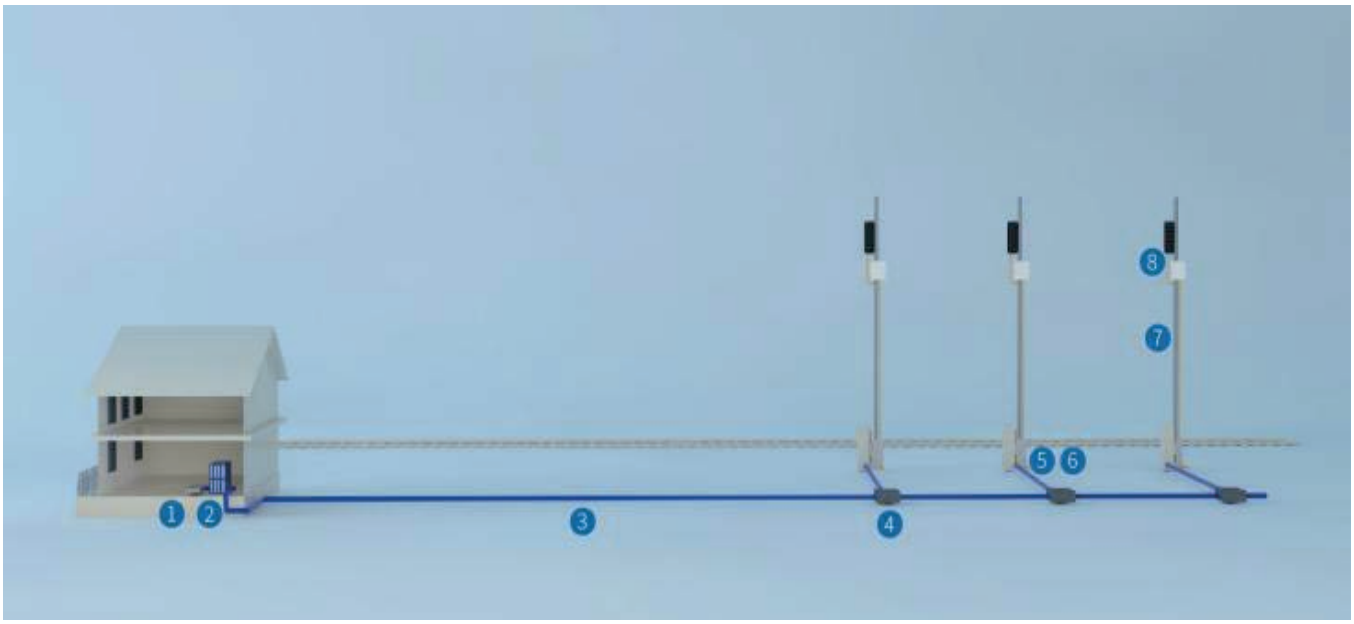
1.Point-to-point
Scenario: network with single RRU or multple RRUs
Applicable to the situationwhere RT devices are gathered at one point but far away from COT
1-COT 2-ODB 3-Hybrid optical and electrical stranded loose tube cable 4-Joint box for hybid cable
5-ODB((lightning-proof) 6-RT 7-Hybrid optical and electrical tight buffered patch cord 8-RF patch cords



2. Point-to-multipoint
Scenarlio: Iindoor 4G coverage
Applicable to the situation where RT devices are scattered far away
Joint box forhybrid cable
1-COT 2-ODB 3-Hybrid optical and electrical stranded loose tube cable 4-Joint box for Hybrid cable
5-ODB((lightning-proof) 6-RT 7-Hybrid optical and electrical tight buffered patch cord 8-RF patch cord



3.Cascade
Scenario: network covering highways, railways and tunnels ·
Applicable to the situation where multiple base stations are distributed far away from each other in one direction.
1-OCT 2-ODB 3-Hybrid optical and electricalstranded loose tube cable 4-Joint box for hybrid cable
5-ODB (lightning-proof) 6-RT 7-Hybrid optical and electrical tight buffered patch cord 8-RF patch cord



Product Series:

1	Hybrid Optical and Electrical Cable Applied in Access Network	GDTC8S	Self-supporting Aerial PSP
		GDTA53	Buired Installation
		GDTA,GDTS	Duct or Aerial Installation
2	Hybrid Optical Cable Applied in Wireless RRU	GDFJAH	Hybrid Optical Fiber Electrical APL LSZH
		GDFJAHP	Hybrid Optical Fiber Electrical APL LSZH
		GJYFJH	Sub-unit Aramid yarn LSZH Sheath
		GJYWFJH	TBF Aramid LSZH Sheath
		GJYXFH	Multi-core Aramid Yarns Double Sheath
		GDFJH	Hybrid Optical and Electrical steel hose

GDTC8S
Figure-8 Steel Wire Hybrid Optical Fiber and Electrical Cable PSP Armored for Distributed Base Station

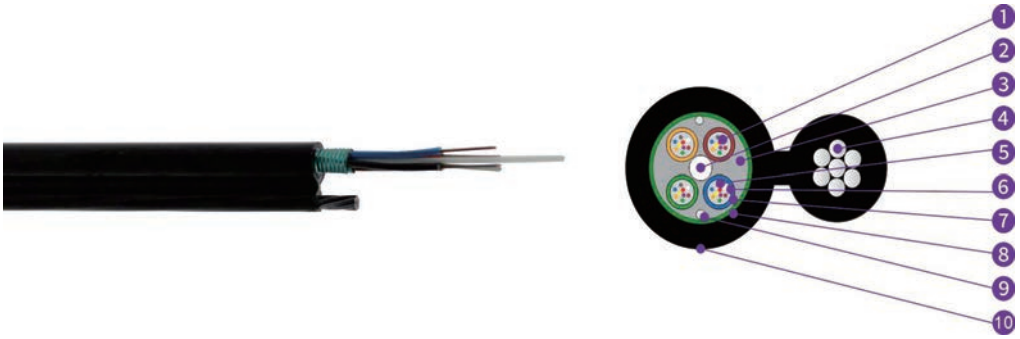
Introduction:

Single-mode or multimode fibers are housed in loose tubes that are made of high modulus plastic and filled with tube filiing compund,In the center of cable is a metallic strength member,The tubes and copper wires are stranded around the central strength member to form a cable core.The core is filled with cable filling compound and armored with corrugated steel tapes.Stranded steel wires are applied as the messenger.Finally.a figure-8 PE Outer sheath is extruded.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Optical and electrical hybrid design,solving the problem of power supply and signal transmission
- Providing manageability of power and reducing coordination and maintenance of power supply
- Reduing procurement costs and saving construction costs
- Mainly used to connect BBU,RRU in DC remote power supply system for distributed base station
- Applicable to self-supporting aerial installation

Cross Section:



1,Copper Wire 2,Strength Member 3,Cable Filling Compound 4,Steel Wire 5,Fibre 6,Tube Filling Compound
7,Loose Tube 8,PSP 9,Ripcord 10,PE Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending radius Dynamic/static mm
GDTC8S- -02-24Xn+2×2.5	13.1*20.6	297	1000/3000	1000/3000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GDTA
Hybrid Optical Fiber and Electrical Cable
APL Armored for Distributed Base Station

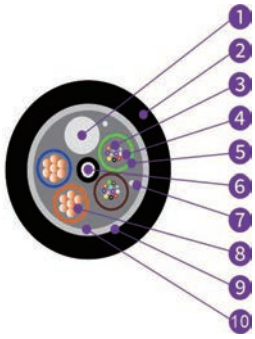
Introduction:

Single-mode or multimode fibers are housed in loose tubes that are made of high modulus plastic and filled with tube filiing compund,In the center of cable is a metallic strength member,The tubes and copper wires are stranded around the central strength member to form a cable core.The core is filled with cable filling compound and armored with Aluminum tapes.Finally, PE Outer sheath is extruded.

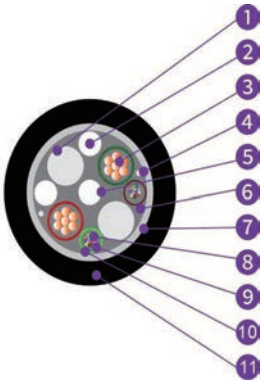
Features:

- Accurate process control ensuring good mechanical and temperature performances
- Optical and electrical hybrid design,solving the problem of power supply and signal transmission
- Providing manageability of power and reducing coordination and maintenance of power supply
- Reduing procurement costs and saving construction costs
- Mainly used to connect BBU,RRU in DC remote power supply system for distributed base station
- Applicable to Duct aerial installation

Cross Section:



1,Filler 2,PE Sheath 3,Fibre 4,Tube Filling Compound 5,Loose Tube 6,Strength Member 7,Ripcord 8,Copper Wire 9,APL 10,Cable Filling Compound



1,Filler 2,Filler 3,Copper Wire 4,Ripcord 5,Strength Member 6,Cable Filling Compound 7,APL 8,Fibre 9,Tube Filling Compound 10,Loose Tube 11,PE Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Structure
GDTA-02-24Xn+2×1.5	11.2	132	600/1500	300/1000	Structure I
GDTA-02-24Xn+2×2.5	12.3	164	600/1500	300/1000	Structure I
GDTA-02-24Xn+2×4.0	14.4	212	600/1500	300/1000	Structure II
GDTA-02-24Xn+2×5.0	14.6	258	600/1500	300/1000	Structure II
GDTA-02-24Xn+2×6.0	15.4	287	600/1500	300/1000	Structure II
GDTA-02-24Xn+2×8.0	16.5	350	600/1500	300/1000	Structure II

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GDTS
Hybrid Optical Fiber and Electrical Cable
PSP Armored for Distributed Base Station

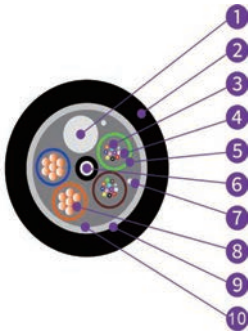
Introduction:

Single-mode or multimode fibers are housed in loose tubes that are made of high modulus plastic and filled with tube filiing compund,In the center of cable is a metallic strength member,The tubes and copper wires are stranded around the central strength member to form a cable core.The core is filled with cable filling compound and armored with Corrugated steel tapes.Finally, PE Outer sheath is extruded.

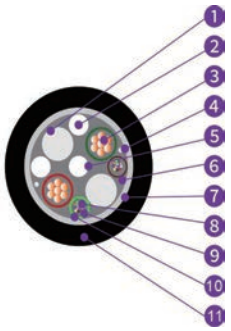
Features:

- Accurate process control ensuring good mechanical and temperature performances
- Optical and electrical hybrid design,solving the problem of power supply and signal transmission
- Providing manageability of power and reducing coordination and maintenance of power supply
- Reduing procurement costs and saving construction costs
- Mainly used to connect BBU,RRU in DC remote power supply system for distributed base station
- Applicable to Duct aerial installation

Cross Section:



1,Filler 2,Strength Member 3,Fibre 4,Tube Filling Compound 5,Loose Tube 6,Cable Filling Compound
7,PSP 8,Ripcord 9,Copper Wire 10,PE Sheath



1,Filler 2,Filler 3,Copper Wire 4,Ripcord 5,Cable Filling Compound 6,Strength Member 7,PSP
8,Fibre 9,Tube Filling Compound 10,Loose Tube 11,PE Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Structure
GDTS-02-24Xn+2×1.5	11.6	157	600/1500	300/1000	Structure I
GDTS-02-24Xn+2×2.5	12.5	190	600/1500	300/1000	Structure I
GDTS-02-24Xn+2×4.0	14.6	241	600/1500	300/1000	Structure II
GDTS-02-24Xn+2×5.0	15	282	600/1500	300/1000	Structure II
GDTS-02-24Xn+2×6.0	15.7	300	600/1500	300/1000	Structure II
GDTS-02-24Xn+2×8.0	16.9	383	600/1500	300/1000	Structure II

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GDTA53
Hybrid Optical Fiber and Electrical Cable
Double Sheath APL PSP Armored for Distributed Base Station

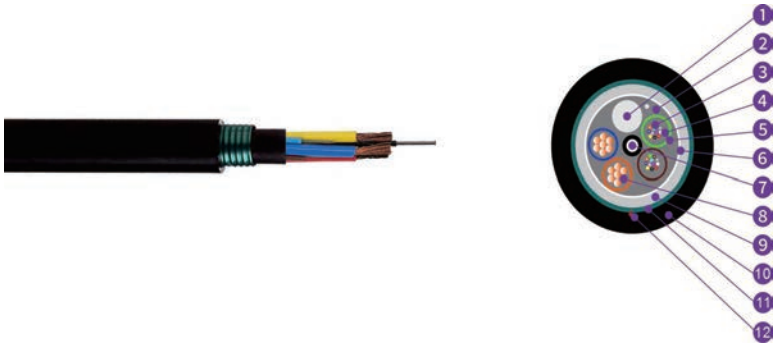
Introduction:

Single-mode or multimode fibers are housed in loose tubes that are made of high modulus plastic and filled with tube filiing compund,In the center of cable is a metallic strength member,The tubes and copper wires are stranded around the central strength member to form a cable core.The core is filled with cable filling compound and armored with Aluminum Tape,then an PE inner sheath is extruded and armored Corrugated steel tapes.Finally, PE Outer sheath is extruded.

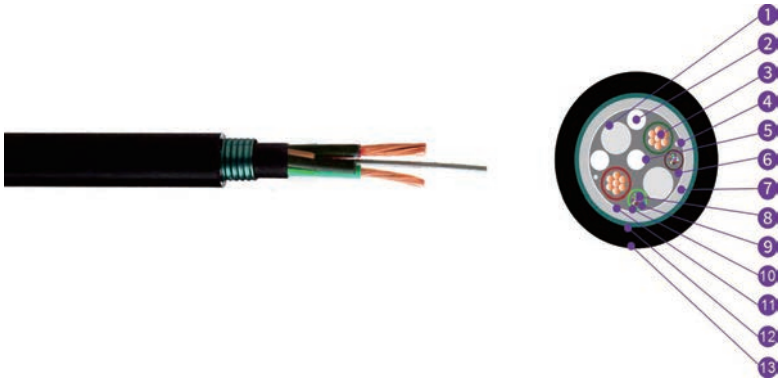
Features:

- Accurate process control ensuring good mechanical and temperature performances
- Optical and electrical hybrid design,solving the problem of power supply and signal transmission
- Providing manageability of power and reducing coordination and maintenance of power supply
- Reduing procurement costs and saving construction costs
- Mainly used to connect BBU,RRU in DC remote power supply system for distributed base station
- Applicable to Duct aerial installation

Cross Section:



1,Filler 2,Cable Filling Compound 3,Fibre 4,Tube Filling Compound 5,Loose Tube 6,APL
7,Strength Member 8,Copper Wire 9,PE Inner Sheath 10,PE Outer Sheath 11,PSP 12,Ripcord



1,Filler 2,Filler 3,Copper Wire 4,Ripcord 5,Strength Member 6,Cable Filling Compound 7,PE Inner Sheath
8,Fibre 9,Tube Filling Compound 10,Loose Tube 11,APL 12,PSP 13,PE Outer Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Structure
GDTA53-02-24Xn+2×1.5	15.1	290	1000/3000	1000/3000	Structure I
GDTA53-02-24Xn+2×2.5	15.5	312	1000/3000	1000/3000	Structure I
GDTA53-02-24Xn+2×4.0	18.2	358	1000/3000	1000/3000	Structure II
GDTA53-02-24Xn+2×5.0	18.6	390	1000/3000	1000/3000	Structure II
GDTA53-02-24Xn+2×6.0	19.9	435	1000/3000	1000/3000	Structure II
GDTA53-02-24Xn+2×8.0	20.8	478	1000/3000	1000/3000	Structure II

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GDFJAH
Hybrid Optical Fiber sub-unit and Electrical Cable
APL Armored LSZH Sheath for Distributed Base Station

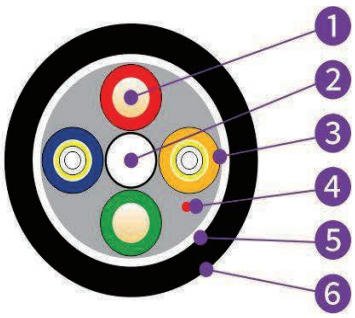
Introduction:

Tigh buffer fibers are surrouded with a layer of aramid yarns as the strength member.A LSZH inner sheath is extruded on the tight buffered fiber to form an optical sub unit.Then optical sub unit and copper wires are stranded around a non metallic central strength member to form a cable core.The core is armored with laminated aluminum tape.Finally,A LSZH outer sheath is extruded,Other sheath material are available on request.

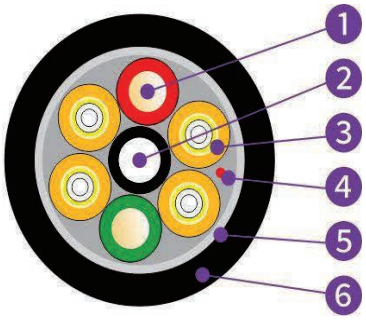
Features:

- Accurate process control ensuring good mechanical and temperature performances
- Optical and electrical hybrid design,solving the problem of power supply and signal transmission
- Providing manageability of power and reducing coordination and maintenance of power supply
- Reduing procurement costs and saving construction costs
- Mainly applied to local fibre remote for short distance at wireless base stations
- Applicable to Duct aerial installation

Cross Section:



1,Copper Wire 2,Strength Member 3,Optical Sub-unit 4,Ripcord 5,APL 6,LSZH Sheath



1,Copper Wire 2,Strength Member 3,Optical Sub-unit 4,Ripcord 5,APL 6,LSZH Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Structure
GDFJAH-2Xn+2×0.75	7.5	80	200/400	500/1000	Structure I
GDFJAH-2Xn+2×1.0	8	88	200/400	500/1000	Structure I
GDFJAH-2Xn+2×1.5	9.6	105	200/400	500/1000	Structure I
GDFJAH-2Xn+2×2.0	10.3	119	200/400	500/1000	Structure I
GDFJAH-2Xn+2×4.0	11.5	159	200/400	500/1000	Structure I
GDFJAH-6Xn+2×0.5	10.5	110	200/400	500/1000	Structure II

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GJYFJH
Sub-unit Aramid yarn LSZH Sheath Fiber Optic Cable for Distributed Base Station

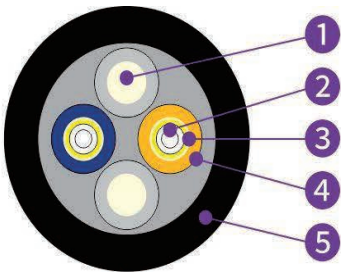
Introduction:

Tigh buffer fibers are surrouded with a layer of aramid yarns as the strength member.A LSZH inner sheath is extruded on the tight buffered fiber to form an optical sub unit.Then optical sub unit and fillers are stranded into a cable core.Finally,A LSZH outer sheath is extruded,Other sheath material are available on request.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Excellent crush resistance and flexibility
- Small size and light weight,supporting bulk data transmission
- Reduing procurement costs and saving construction costs
- Mainly applied to horizontal and vertical cabling wireless base station,applicable to FTTA

Cross Section:



1,Strength Filler 2,Tight Buffered Fibre 3,Aramid Yarn 4,Sub-unit Sheath 5,Outer Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending Radius Dynamic/static
GJYFJH-2Xn	7	42.3	200/400	500/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GJYWFJH
Tight Buffered Fiber with Aramid LSZH Sheath Fiber Optic Cable for Distributed Base Station

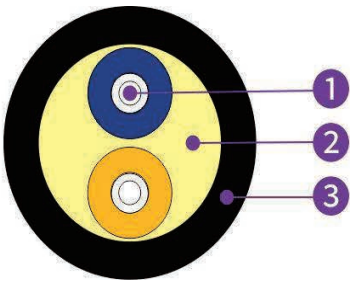
Introduction:

Tigh buffer fibers are surrouded with a layer of aramid yarns as the strength member.Then A LSZH sheath is extruded,Other sheath material are available on request.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Excellent crush resistance and flexibility
- Small size and light weight,supporting bulk data transmission
- Mainly applied to horizontal and vertical cabling wireless base station,applicable to FTTA

Cross Section:



1,Tight Buffered Fibre 2,Aramid Yarn 3,Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending radius Dynamic/static mm
GJYWFJH-2Xn	4.8	28.3	200/400	500/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GJYXFH
Multi-core Fibers Aramid Yarns Double Sheath Optic Cable for Distributed Base Station

Introduction:

Optical fibers are surrouded with a layer of aramid yarns as the strength member.Then A LSZH sheath is extruded and another layer of aramid yarns is places outside the inner sheath, Finally a LSZH outer sheath is extruded.The strength members can be made of other high strength yarns and Other sheath material are available on request.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Excellent crush resistance and flexibility
- Small size and light weight,supporting bulk data transmission
- Mainly applied to horizontal and vertical cabling wireless base station,applicable to FTTA

Cross Section:

1,Fiber 2,Aramid Yarn 3,Ripcord 4,InnerSheath 5,Aramid Yarn 6,Outer Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending radius Dynamic/static mm
GJYXFH-2Xn	7.0(2.8mm Inner)	38.3	200/400	500/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GDFJH
Hybrid Optical and Electrical with steel hose Fiber Optic Cable for Distributed Base Station

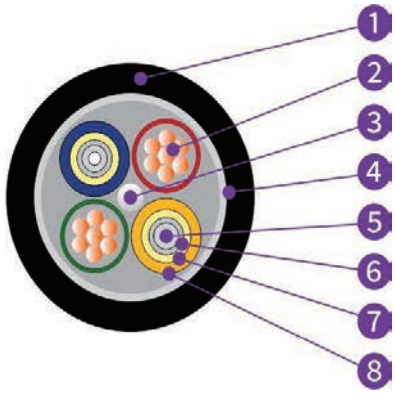
Introduction:

Tight bufferd fibers are surrouded with a helical steel hose and a layer of aramid yarns as the strength member.Then A LSZH sheath is extruded to form an optical sub unit.Optical sub units and copper wires are stranded around a non metallic central strength member to form a cable core,The core is wrapped with water blocking tape.Finally,a LSZH outer sheath is extruded,Other sheath materials are available on request.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- Stainless steel hose armor providing better protection to fibers
- All dry hybrid structure,supporting bulk data transmission and power supply for RRU devices
- Mainly applied to local fibre remote for short distance at wireless base stations

Cross Section:



1,Outer Sheath 2,Copper Wire 3,Strength Member 4,Water Blocking Tape 5,Tight Buffered Fibre
6,Helical Steel Hose 7,Aramid Yarn 8,Sub-unit Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)	Bending radius Dynamic/static mm
GDFJH-2Xn+2*1.5	9.5(3.0optical unit)	110	400/800	500/1000	20D/10D

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

zion communication

Biological Protection Optical Fiber Cable

Specializing in designing, manufacturing cables and providing customized services for our customers

Biological Protection (Anti-Rodent, Anti-Termite, Anti-Birds) Optical Fiber Cable

Introduction:

ZION provides optical cables that resistant to biological hazards caused by rodents,termites and birds,etc. after installation.Optical cables are often damaged by rodents.Termites not only bite,but also release formic acid to the cables.We design methods include physical(include metallic and glass fiber armor and nylon sheath) and chemical methods(Spicy additives) agsinst biological hazards

Features:

- Accurate process control ensuring good mechanical and temperature performances
- All-dielectric design,applicable to lightning-prone areas
- Small size and light weight
- Glass fibre yarns providing certain anti-rodent performance
- Nylon outer sheath with high hardness providing certain anti-termite performance

Main Methods:

Physical methods	Metallic armors	Stainless steel tape	Rodent and Birds
		Steel wires	
	Non-Metallic armors	FRP	Rodent and Birds
		Glass Yarn	Rodent
	Nylon sheath	Nylon outer sheath	Termite
Chemical methods	Chemical additives	Spicy additives	Rodent and Termite

Product Series:

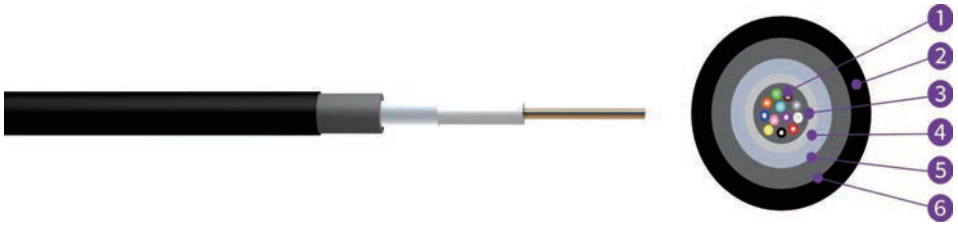
Uni-Tube	GYGXZY04	Glass fibre tape+Nylon sheath	Rodent,Termite,Lightning
	GYXTY53	Stainless steel tape+wire	Rodent,Birds
	GYXTS	Stainless steel tape+wire	Rodent,Birds
	GYXTY	Stainless steel wire	Rodent,Birds
	GYFXTY	FRP Armor	Rodent,Birds,Lightning
Stranded loose tube	GYFTA53	Aluminum tape+steel tape	Rodent
	GYFTA54	steel tape+nylon sheath	Rodent,Termite
	GYFTY83(FS)	Flat FRP tape	Rodent
	GYFTY73	FRP tape armor	Rodent,Birds,Lightning
	GYFTS	Stainless steel tape	Rodent,Birds
Special	GJFJKH	Stainless Steel Flexible Hose	Indoor protection from Rodent

GYGXZY04
Anti-Rodent Anti-Termite Glass Fibre Tape Nylon Sheath Uni-tube Fiber Optic Cable

Features:

- Accurate process control ensuring good mechanical and temperature performances
- All-dielectric design,applicable to lightning-prone areas
- Small size and light weight
- Glass fibre yarns providing certain anti-rodent performance
- Nylon outer sheath with high hardness providing certain anti-termite performance

Cross Section:



1, Fibers 2,PA Outer Sheath 3,Tube Filling Compound 4,Loose Tube 5,Glass fiber Yarn 6, LSZH Inner sheath

Technical Characteristics:

Type	Diameter of Uni-tube	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYGXZY04 -02-12Xn	2.8	7.5±0.1	50	600/1500	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -20℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYXTY53
Anti-Rodent Anti-Birds Steel Tape Uni-tube Double Sheath Fiber Optic Cable

Features:

- Accurate process control ensuring good mechanical and temperature performances
- The material of loose tubes with good hydrolysis resistance and high strength
- Tube filling compound providing the key protection for fibres
- Excellent crush resistance and flexibility
- Steel wire and steel tape armors providing excellent anti-rodent performance

Cross Section:

1, Fibers 2,Tube Filling Compound 3,Loose Tube 4,PE Inner sheath 5,Steel wire 6, PSP 7, Cabling compound 8,PE Sheath

Technical Characteristics:

Type	Diameter of Uni-tube	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYXTY53 -02-12Xn	2.5	10.9±0.1(2.0Thickness)	144	600/1500	1000/3000
GYXTY53 -14-18Xn	2.8	11.2±0.1(2.0Thickness)	155	1000/3000	1000/3000
GYXTY53 -20-24Xn	3.2	11.6±0.1(2.0Thickness)	167	1000/3000	1000/3000
GYXTY53 -26-30Xn	3.5	11.9±0.1(2.0Thickness)	178	1000/3000	1000/3000
GYXTY53 -32-36Xn	3.8	12.2±0.1(2.0Thickness)	186	1000/3000	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYXTS
Anti-Rodent Anti-Birds Steel Tape Uni-tube Fiber Optic Cable

Features:

- Accurate process control ensuring good mechanical and temperature performances
- The material of loose tubes with good hydrolysis resistance and high strength
- Tube filling compound providing the key protection for fibres
- Excellent crush resistance and flexibility
- Steel wire and steel tape armors providing excellent anti-rodent performance

Cross Section:

1, Fibers 2,Tube Filling Compound 3,Loose Tube 4,Steel wire 5, PSP 6, Cabling compound 7,PE Sheath

Technical Characteristics:

Type	Diameter of Uni-tube	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYXTS -02-12Xn	2.5	8.8±0.1(2.0Thickness)	108	600/1500	1000/3000
GYXTS -14-18Xn	2.8	9.2±0.1(2.0Thickness)	116	1000/3000	1000/3000
GYXTS -20-24Xn	3.2	9.6±0.1(2.0Thickness)	126	1000/3000	1000/3000
GYXTS -26-30Xn	3.5	9.8±0.1(2.0Thickness)	137	1000/3000	1000/3000
GYXTS -32-36Xn	3.8	10.1±0.1(2.0Thickness)	142	1000/3000	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYXTY
Anti-Rodent Anti-Birds Steel Wires Uni-tube Fiber Optic Cable

Features:

- Accurate process control ensuring good mechanical and temperature performances
- The material of loose tubes with good hydrolysis resistance and high strength
- Tube filling compound providing the key protection for fibres
- Excellent crush resistance and flexibility
- Stainless Steel wire armors providing excellent anti-rodent performance

Cross Section:

1, Fibers 2,Tube Filling Compound 3,Loose Tube 4,Steel wire 5, Cabling compound 6,PE Sheath

Technical Characteristics:

Type	Diameter of Uni-tube	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYXTY -02-12Xn	2.5	7.7±0.1(2.0Thickness)	76	600/1500	1000/3000
GYXTY -14-18Xn	2.8	8.0±0.1(2.0Thickness)	84	1000/3000	1000/3000
GYXTY -20-24Xn	3.2	8.4±0.1(2.0Thickness)	93	1000/3000	1000/3000
GYXTY -26-30Xn	3.5	8.7±0.1(2.0Thickness)	101	1000/3000	1000/3000
GYXTY -32-36Xn	3.8	9.0±0.1(2.0Thickness)	107	1000/3000	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFXTY
Anti-Rodent Anti-Birds FRP Wires Uni-tube Fiber Optic Cable

Features:

- Accurate process control ensuring good mechanical and temperature performances
- The material of loose tubes with good hydrolysis resistance and high strength
- Tube filling compound providing the key protection for fibres
- Excellent crush resistance and flexibility
- Non-Metallic FRP wires armors providing excellent anti-rodent performance

Cross Section:

1, Fibers 2,Tube Filling Compound 3,Loose Tube 4,FRP wire 5, Waterr Blocking Yarn 6,PE Sheath

Technical Characteristics:

Type	Diameter of Uni-tube	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYFXTY -02-12Xn	2.4	7.6±0.1(2.0Thickness)	49	600/1500	1000/2000
GYFXTY -14-24Xn	3	8.2±0.1(2.0Thickness)	64	600/1500	1000/2000
GYFXTY -36-26Xn	3.6	8.8±0.1(2.0Thickness)	75	600/1500	1000/2000
GYFXTY -38-48Xn	4	9.2±0.1(2.0Thickness)	81	600/1500	1000/2000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

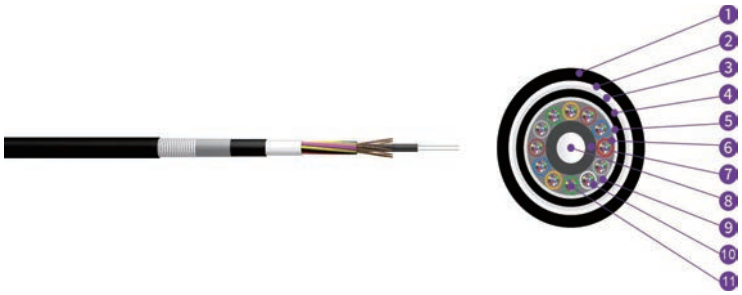
Standard length:2000m;Other length availabe

GYFTA53
Anti-Rodent APL Tape Double Sheath Stranded Loose tube Fiber Optic Cable

Features:

- Accurate process control ensuring good mechanical and temperature performances
- The material of loose tubes with good hydrolysis resistance and high strength
- Tube filling compound providing the key protection for fibres
- Excellent crush resistance and flexibility
- Metallic armors providing excellent anti-rodent performance

Cross Section:



1, PE Sheath 2, Steel tape 3,Tube Filling Compound 4,PE Inner Sheath 5, APL 6,Loose Tube 7,PE Layer 8,Strength Member 9,Cable Compound 10,Fibers 11,Loose Tube

Technical Characteristics:

Type	Units	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYFTA53 -02-36Xn	6	13.0±0.1	199	1500/3000	1000/3000
GYFTA53 -38-72Xn	6	15.0±0.1	244	1500/3000	1000/3000
GYFTA53 -74-96Xn	8	16.8±0.1	290	1500/3000	1000/3000
GYFTA53 -98-120Xn	10	17.8±0.1	333	1500/3000	1000/3000
GYFTA53 -122-144Xn	12	20.0±0.1	389	1500/3000	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFTA54
Anti-Rodent APL Tape Double Nylon Sheath Stranded Loose tube Fiber Optic Cable

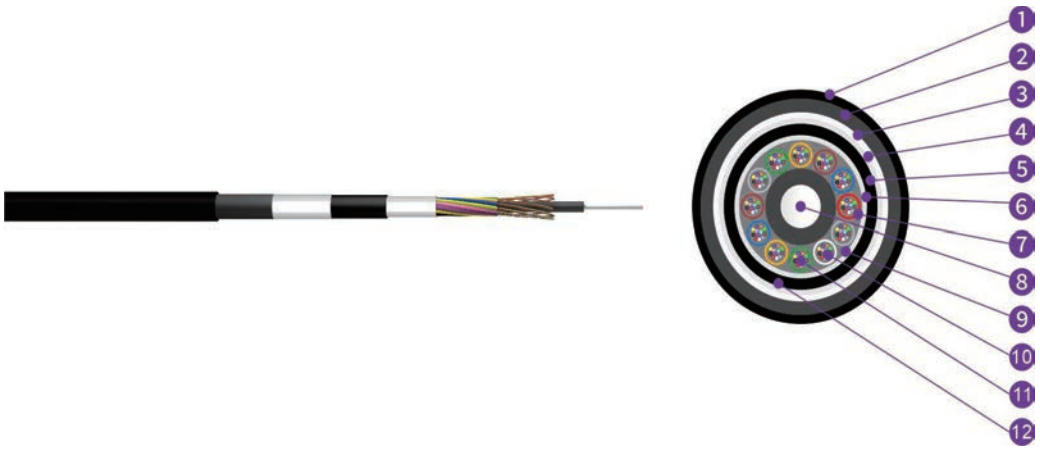
Introduction:

GYFTA54 is a kind of outdoor communication optical cable,which consists of a non-metallic central strength member, stranded loose tubes, a laminated aluminum tape armor,a PE inner sheath,a stainless steel tape armor,a PE middle sheath and a nylon outer sheath. Single-mode fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes are stranded around the central member to form a cable core. The core is filled with cable filling compound and armored with laminated aluminum tape. Then a PE inner sheath is extruded and armored with stainless steel tape.Finally, a middle PE sheath and a nylon outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The materialof loose tubes with good hydrolysis resistance and relatively high strength
Tube filling compound providing key protection forfibres
Excellent crush resistance
Metallic armors providing good anti-rodent performance
Nylon outer sheath with high hardness providing certain anti-termite performance
Applicable to duct and buried installations

Cross Section:



1,PA Outher Sheath 2,PE Middle Sheath 3,Stainless Steel Tape 4,Cable Filling Compound 5,PE Inner Sheath 6,APL 7,Loose Tube 8,Strength Member 9,Cable Filling Compound 10,Fibre 11,Tube Filling Compound 12,PE Layer

Technical Characteristics:

Type	Units	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYFTA54 -24Xn	6	14.4	225	900/2700	1000/3000
GYFTA54 -48Xn	6	15.0±0.1	250	900/2700	1000/3000
GYFTA54 -72Xn	6	15.0±0.1	250	900/2700	1000/3000
GYFTA54 -96Xn	8	16.8±0.1	300	900/2700	1000/3000
GYFTA54 -144Xn	12	20.0±0.1	370	900/2700	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFTY83(FS)
Anti-Rodent Flat FRP Tape Stranded Loose tube Fiber Optic Cable

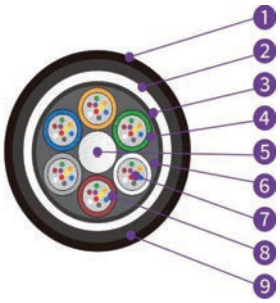
Introduction:

ZION provides optical cables that resistant to biological hazards caused by rodents,termites and birds,etc. after installation.Optical cables are often damaged by rodents.Termites not only bite,but also release formic acid to the cables.We design methods include physical(include metallic and glass fiber armor and nylon sheath) and chemical methods(Spicy additives) agsinst biological hazards GYFTY83(FS) is designed with physical and chemical anti-rodent methods. Single-mode/multimode fibres are housed in loose tubes that are made of high-modulus plastic. The tubes are stranded around a central strength member to form a cable core. The core is filled with cable filling compound. Then an inner PE sheath is extruded and armored with flat FRP.Finally,an anti-rodent PE middle sheath and a PE outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
Tube illing compound providing key protection for fibres
Combination of physical and chemical anti-rodent methods
Flat FRP armor providing the physical anti-rodent performance
Anti-rodent sheath providing the chemical anti-rodent performance,which effectively delays the diffusion of anti-rodent additives to protect working environment and construction safety
All-dielectric design, applicable to lightning-prone areas
Applicable to aerial and duct installations with anti-rodent and anti-lightning requirements

Cross Section:



1,PE Outer Sheath 2,Flat FRP 3,PE Inner Sheath 4,Loose Tube 5,Strength Member
6,Cable Filling Compound 7,Fibre 8,Tube Filling Compound 9,Anti-rodent Middle Sheath

Technical Characteristics:

Type	Units	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYFTY83 -02-72Xn	6	14.0±0.1	190	1500/4500	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFTY73
Anti-Rodent Anti Bird FRP Tape Double Sheath Stranded Loose tube Fiber Optic Cable

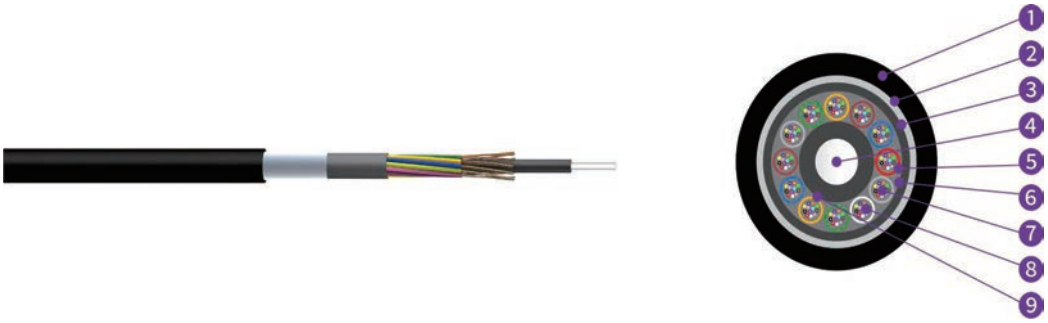
Introduction:

ZION provides optical cables that resistant to biological hazards caused by rodents,termites and birds,etc. after installation.Optical cables are often damaged by rodents.Termites not only bite,but also release formic acid to the cables.We design methods include physical(include metallic and glass fiber armor and nylon sheath) and chemical methods(Spicy additives) agsinst biological hazards. GYFTY73 is designed with physical anti-rodent measure. Single-mode/multimode fibres are housed in loose tubes that are made of high-modulus plastic. The tubes are stranded around a central strength member to form a cable core. The core is filled with cable filling compound. Then an inner PE sheath is extruded and armored with FRP tape. Finally, a PE outer sheath is extruded.

Features:

Physical anti-rodent method,green and environment-friendly
Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
Tube filing compound providing key protection for fibres
FRP tape armor providing good anti-rodent performance All-dielectric design, applicable to lightning-prone areas
Applicable to aerial and duct installations with anti-rodent and anti-lightningrequirements

Cross Section:



1,PE Outer Sheath 2,FRP Tape 3,PE Inner Sheath 4,Strength Member 5,Loose Tube
6,Cable Filling Compound 7,Fibre 8,Tube Filling Compound 9,PE Layer

Technical Characteristics:

Type	Units	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYFTY73 -02-72Xn	6	13.2±0.1	132	1000/3000	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFTS
Anti-Rodent Anti Bird Steel Tape Stranded Loose tube Fiber Optic Cable

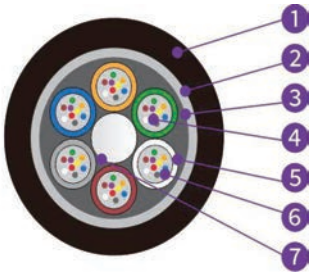
Introduction:

ZION provides optical cables that resistant to biological hazards caused by rodents,termites and birds,etc. after installation.Optical cables are often damaged by rodents.Termites not only bite,but also release formic acid to the cables.We design methods include physical(include metallic and glass fiber armor and nylon sheath) and chemical methods(Spicy additives) agsinst biological hazards GYKTSis a kind of outdoor communication optical cable, which consists of a central metallic strength member, stranded loose tubes,a stainless steel tape armor and a PE outer sheath.Single-mode fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes are stranded around the central strength member to form a cable core. The core is filled with cable filling compound and armored with stainless steel tape. Then a PE outer sheath is extruded.

Features:

- Accurate process control ensuring good mechanical and temperature performances
- The material of loose tubes with good hydrolysis resistance and high strength
- Tube filling compound providing the key protection for fibres
- Excellent crush resistance
- Metallic armors providing excellent anti-rodent performance

Cross Section:



1,PE Sheath 2,Stainless Steel Tape 3,Cable Filling Compound 4,Fibre 5,Loose Tube 6,Tube Filling Compound 7,Central Strength Member

Technical Characteristics:

Type	Units	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GYKTS -02-30Xn	5	9.8±0.1	108	600/1500	1000/2000
GYKTS -32-36Xn	6	10.4±0.1	129	600/1500	1000/2000
GYKTS -38-60Xn	5	10.6±0.1	132	600/1500	1000/2000
GYKTS -62-72Xn	6	12.1±0.1	161	600/1500	1000/2000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GJFJKH
Indoor Anti-Rodent Steel Flexible Hose Fiber Optic Cable

Introduction:

ZION provides optical cables that resistant to biological hazards caused by rodents,termites and birds,etc. after installation.Optical cables are often damaged by rodents.Termites not only bite,but also release formic acid to the cables.We design methods include physical(include metallic and glass fiber armor and nylon sheath) and chemical methods(Spicy additives) agsinst biological hazards Tight buffered fibres are housed in a metallic hose made of stainless steel tape. The hose is wrapped with aramid yarns,then a LSZHouter sheath is extruded.The tight buffered fibres are made by extruding a buffer layer on the surface of optical fibres.

Features:

All-dry design,green and environment-friendly
Aramid yarns ensuring tensile strength and providing good protection fortight buffered fibres
Metallic hose with good flexibility providing certain anti-rodent performance
Outer sheath with flame-retardant performance, applicable to indoor installation
Small size and light weight, easy for installation
Applicable to indoor anti-rodent use

Cross Section:

1,LSZH Sheath 2,Aramid Yarn 3,Tight Buffered Fibre 4,Helical Steel Hose

Technical Characteristics:

Type	Fiber Diameter mm	Diameter mm	Weight (kg/km)	Tension(N) Long/short	Crush Resistance Long/short (N/100mm)
GJFJKH -1Xn	0.9	3.0±0.1	18	100/200	3000/5000
GJFJKH -2Xn	0.9	4.8±0.1	38	200/400	3000/5000
GJFJKH -2Xn	0.6	3.0±0.1	24	100/200	3000/5000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

zion communication

Fire-Resistance Optical Fiber Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers

Fire-Resistance Optical Fiber Cable for Railway Transportation

Introduction:

With the increase in operation length, the corresponding demands for communication devices for rail transit keep increasing. Optical cables are widely used in rail transit for their remarkable safety, electromagnetic compatibility, reliability, multi-interfaces, and extensibility. Meanwhile, the safety of rail transit has become more and more important. For the optical cables, the most serious accident is fire. Once the cable is damaged by fire, the communication might be interrupted, making it impossible to monitor the signals and control the key devices, thus making it difficult for rescue, real-time monitoring, and equipment control. Therefore, the communication cables are required to guarantee normal communication in the case of emergencies. Based on flame-retardant & fire-resistant optical cables, ZION has developed optical cables for rail transit. The cables can maintain normal communication and operation of key equipment, send alarms and minimize losses caused by fire.

Product Series:

GYFZY	Non-metallic+Fire-Resistant Layer+Flame-Retardant Sheath
GYTZA	Single APL Armor+ Single Flame-Retardant Sheath
GYTZA53	Single APL+Single PSP Armor+Double Flame-Retardant Sheaths
GYZS	Single Fire-Resistant Layer+ Single PSP armor+ Single Flame-Retardant Sheath
GYZS53	Double Fire-Resistant Layers+Double PSP armors+Double Flame-Retardant Sheaths
GYZS53+33	Double Fire-Resistant Layers+Double PSP+Single Steel Wire Armor+3 Flame-Retardant
GYFZA04+33	APL+Steel Wire armor+Fire-Resistant Layer+Anti-Termite Layer+Flame-Retardant Sheath

GYFZY
All Dielectric Fire-resistance Stranded Loose Tube Optical Cable for Railway Transportation

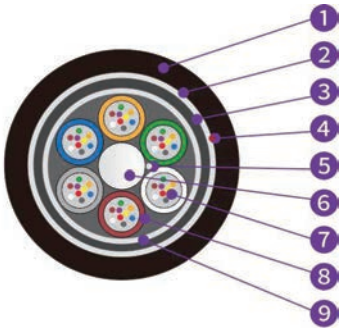
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes(and fillers) are stranded around a non-metallic central strength member to form a cable core. The core is armored with a layer of fire resistance tape and glass fibre yarns. Then,a LSZH outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
Small size and light weight, easy for installation
Fire-resistant layer and LSZH sheath ensuring good fire-resistance and flame-retardantperformances
All-dielectric design, applicable to lightning-prone areas
Comply with IEC60331(no cooling),IEC60754-1&2,IEC61034 and IEC60332-3-24

Cross Section:



1,LSZH Sheath 2,Glass Fibre Yarn 3,Fire Resistance Tape 4,Ripcord 5,Water Blocking Yarn 6,Strength Member 7,Fibre 8,Loose Tube 9,Water Blocking Tape

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYFZY-6Xn	10.8	120	6	600/1500	300/1000
GYFZY-12Xn	10.8	120	6	600/1500	300/1000
GYFZY-24Xn	10.8	120	6	600/1500	300/1000
GYFZY-48Xn	12.4	180	6	600/1500	300/1000
GYFZY-72Xn	12.4	180	6	600/1500	300/1000
GYFZY-96Xn	13.6	220	6	600/1500	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYTZA
Flame-retardance Stranded Loose Tube Optical Cable for Railway Transportation

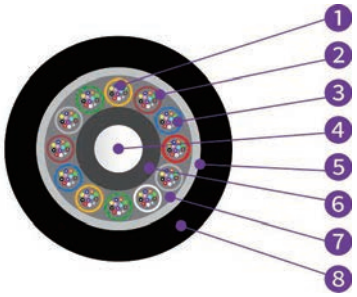
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes (and fillers) are stranded around a metallic central strength member to form a cable core. The core is armored with laminated aluminum tape. Then, a LSZH outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
LSZH sheath ensuring good flame-retardant performance
Water resistance of optical cable is ensured by the following measures
Special water-blocking compound filled in loose tubes
Laminated aluminum tape armor
Water-blocking material ensuring longitudinal water resistance

Cross Section:



1,Fibre 2,Loose Tube 3,Tube Filling Compound 4,Strength Member 5,APL 6,PE Layer
7,Cable Filling Compound 8,LSZH Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYTZA-2-30Xn	9.2	85	5	600/1500	300/1000
GYTZA-32-36Xn	10.2	107	6	600/1500	300/1000
GYTZA-38-60Xn	10.4	110	6	600/1500	300/1000
GYTZA-62-72Xn	11.4	130	6	600/1500	300/1000
GYTZA-74-96Xn	13.6	165	8	600/1500	300/1000
GYTZA-98-120Xn	14.8	195	10	600/1500	300/1000
GYTZA-122-144Xn	16.4	236	12	600/1500	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYTZA53
Flame-retardant Double Armored Stranded Loose Tube Optical Cable for Railway Transportation

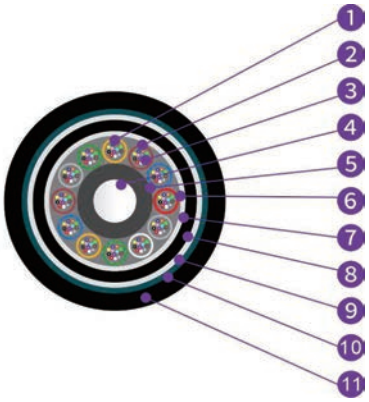
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes (and fillers) are stranded around a metallic central strength member to form a cable core. The core is armored with laminated aluminum tape. Then a LSZH inner sheath is extruded and armored with corrugated steel tape. Finally, a LSZH outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
LSZH sheath ensuring good flame-retardant performance
Water resistance of optical cable is ensured by the following measures
Special water-blocking compound filled in loose tubes
Laminated aluminum tape armor
Water-blocking material ensuring longitudinal water resistance

Cross Section:



1,Fibre 2,Loose Tube 3,Tube Filling Compound 4,Strength Member 5,PE Layer 6,Cable Filling Compound
7,APL 8,LSZH Inner Sheath 9,Cable Filling Compound 10,PSP 11,LSZH Outer Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYTZA53-2-36Xn	13	199	6	1000/3000	1000/3000
GYTZA53-38-72Xn	15	244	6	1000/3000	1000/3000
GYTZA53-74-96Xn	16.8	290	8	1000/3000	1000/3000
GYTZA53-98-120Xn	17.8	333	10	1000/3000	1000/3000
GYTZA53-122-144Xn	20	389	12	1000/3000	1000/3000
GYTZA53-146-216Xn	20	385	18	1000/3000	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYZS
Semi-dry Fire-resistance Steel Tape Armored Optical Cable for Railway Transportation

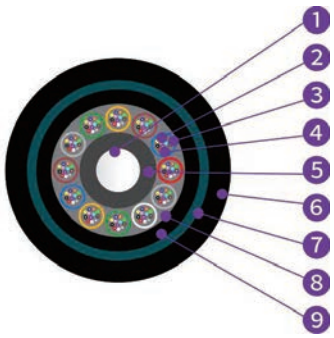
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes(and fillers) are stranded around a metallic central strength member to form a cable core.The core is armored with a layer of fire resistance tape and corrugated steel tape.Then,a LSZH outer sheath is extruded.

Features:

Accurate process controlensuring good mechanical and temperature performances
The material of loose tubes,with good hydrolysis resistance and relatively high strength
Fire-resistant layer and LSZH sheath ensuring good fire-resistance and flame-retardant performances
Excellent crush resistance
Comply with IEC60331(no cooling),IEC60754-1&2,IEC61034 and IEC60332-3-24

Cross Section:



1,Strength Member 2,Fibre 3,Loose Tube 4,Tube Filling Compound 5,PE Layer 6,LSZH Sheath 7,PSP
8,Water Blocking Yarn 9,Fire Resistance Tape

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYTS-6Xn	13	210	6	600/1500	300/1000
GYTS-12Xn	13	210	6	600/1500	300/1000
GYTS-24Xn	13	210	6	600/1500	300/1000
GYTS-48Xn	13	230	6	1000/3000	300/1000
GYTS-72Xn	13	230	6	1000/3000	300/1000
GYTS-96Xn	14.4	260	8	1000/3000	300/1000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GY (F) ZS53
All Dielectric Fire-resistance Stranded Loose Tube Optical Cable for Railway Transportation

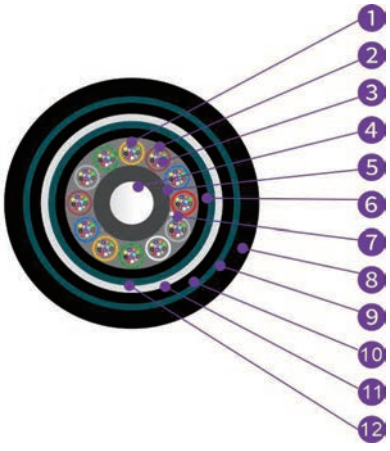
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes (and fillers) are stranded around a metallic (or non-metallic) central strength member to form a cable core. The core is armored with a layer of fire resistance tape and corrugated steel tape. Then a LSZH inner sheath is extruded and armored with another layer of fire resistance tape and corrugated steel tape. Finally, a LSZH outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
Fire-resistant layers and LSZH sheaths ensuring good fire resistance and flame-retardant performances
Excellent crush resistance
Comply with IEC60331(no cooling),IEC60754-1&2,IEC61034 and IEC60332-2-24

Cross Section:



1,Fibre 2,Loose Tube 3,Tube Filling Compound 4,Strength Member 5,PE Layer 6,Fire Resistance Tape
7,Water Blocking Yarn 8,LSZH Outer Sheath 9,PSP 10,Fire Resistance Tape 11,LSZH Inner Sheath 12,PSP

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYTS53-6Xn	16.8	360	6	600/1500	1000/3000
GYTS53-12Xn	16.8	360	6	600/1500	1000/3000
GYTS53-24Xn	16.8	360	6	600/1500	1000/3000
GYTS53-48Xn	16.8	380	6	600/1500	1000/3000
GYTS53-72Xn	16.8	380	6	600/1500	1000/3000
GYTS53-96Xn	18	430	8	600/1500	1000/3000
GYTS53-144Xn	21.2	540	12	600/1500	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYZS53+33
Multi-armored Fire-resistance Optical Cable for Railway Transportation

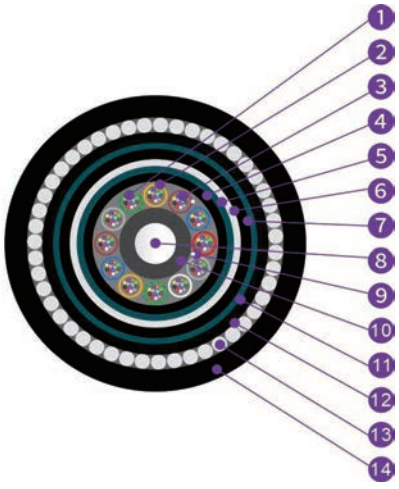
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tubefilling compound.The tubes (and fillers) are stranded around a metallic central strength member to form a cable core. The core is armored with a layer of fire resistance tape and corrugated steel tape. Then a LSZH inner sheath is extruded and armored with another layer of fire resistance tape and corrugated steel tape. Then a LSZH middle sheath is extruded and wrapped with steel wires. Finally, a LSZH outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
Fire-resistant layers and LSZH sheaths ensuring good fire resistance and flame-retardant performances
Excellent crush resistance
Comply with IEC60331(no cooling),IEC60754-1&2,IEC61034 and IEC60332-2-24

Cross Section:



1,Fibre 2,Loose Tube 3,Tube Filling Compound 4,Fire Resistance Tape 5,PSP 6,LSZH Inner Sheath
7,Fire Resistance Tape 8,Strength Member 9,Water Blocking Yarn 10,PE Layer 11,PSP 12,LSZH Middle Sheath
13,Steel Wire 14,LSZH Outer Sheath

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYTS53+33-6Xn	22.8	950	6	2000/5000	1000/3000
GYTS53+33-12Xn	22.8	950	6	2000/5000	1000/3000
GYTS53+33-24Xn	22.8	950	6	2000/5000	1000/3000
GYTS53+33-48Xn	22.8	950	6	2000/5000	1000/3000
GYTS53+33-72Xn	22.8	950	6	2000/5000	1000/3000
GYTS53+33-96Xn	24.4	1100	8	2000/5000	1000/3000
GYTS53+33-144Xn	27.4	1300	12	2000/5000	1000/3000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

GYFZA04+33
Multi-armored Fire-resistance Optical Cable
Anti-rodent & Anti-termite for Railway Transportation

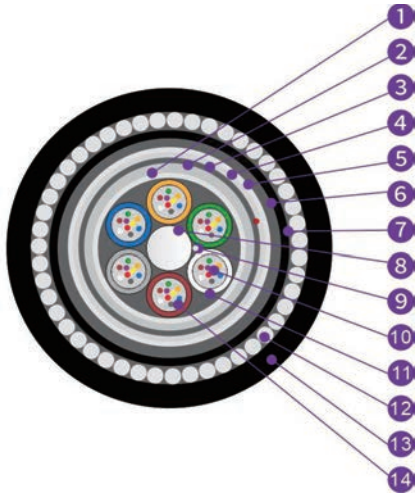
Introduction:

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound.The tubes (and fillers) are stranded around a non-metallic central strength member to form a cable core. The core is covered by a fire resistance layer. A LSZH inner sheath is extruded and armored with laminated aluminum tape. Then a PE second sheath and a nylon third sheath is extruded and wrapped with steel wires. Finally, a LSZH outer sheath is extruded.

Features:

Accurate process control ensuring good mechanical and temperature performances
The material of loose tubes with good hydrolysis resistance and relatively high strength
Fire-resistant layers and LSZH sheaths ensuring good fire resistance and flame-retardant performances
Excellent crush resistance
Nylon sheath with hight hardness providing certain anti-termite performances
Comply with IEC60331(no cooling),IEC60754-1&2,IEC61034 and IEC60332-2-24

Cross Section:



1,Water Blocking Tape 2,Fire Resistance Tape 3,LSZH Inner Sheath 4,Water Blocking Tape 5,APL
6,HDPE Second Sheath 7,PA Sheath 8,Strength Member 9,Water Blocking Yarn 10,Fibre 11,Loose Tube
12,Steel Wire 13,LSZH Outer Sheath 14,Tube Filling Compound

Technical Characteristics:

Type	Diameter mm	Weight (kg/km)	Unit	Tensile strength Long/short term (N)	Crush Long/short term (N/100mm)
GYFZA04+33-4Xn	19.1	580	6	3000/5000	2000/4000
GYFZA04+33-12Xn	19.1	580	6	3000/5000	2000/4000
GYFZA04+33-24Xn	19.1	580	6	3000/5000	2000/4000
GYFZA04+33-48Xn	20	650	6	3000/5000	2000/4000
GYFZA04+33-72Xn	20	650	6	3000/5000	2000/4000
GYFZA04+33-96Xn	21.6	730	8	3000/5000	2000/4000

Note: This specification provides a normative reference. Adjustable outer diameter to suit your budget.Contact us ASAP.

Environmental Characteristics:

Transport/storage temperature: -40℃~70℃

Delivery Length:

Standard length:2000m;Other length availabe

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