zion communication

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:

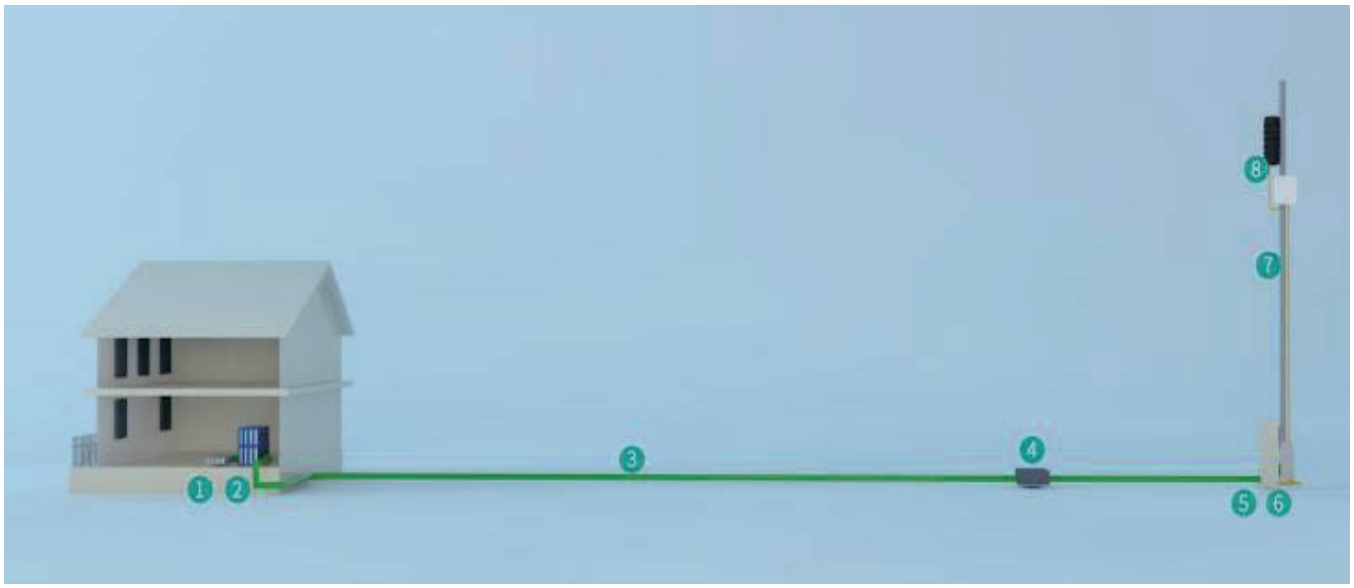
With the construction of 4G networks communication cables and equipment keep extending toward the subscribers. The power supply for equipments of remote base stations.communication rooms,access points for subscribers has become a tough problem. The solution of DC remote power supply by hybrid optical 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:

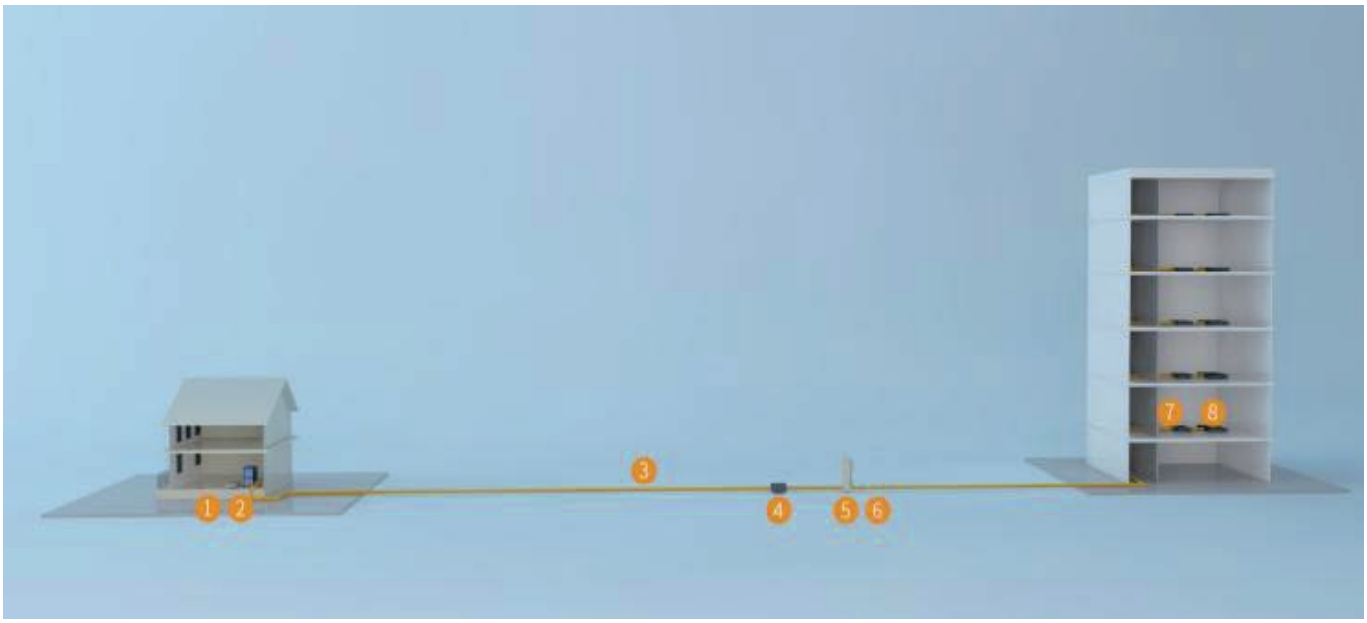
DC remote power supply system consists of a central office terminal (COT) and a remote terminal (RT). The power of COT can be boosted from DC 48V to DC 220~410V(adjustable) and transmitted to RT by hybrid optical and electrical cables, and then dropped to DC 48V(DC 280V might be converted to AC220V) 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:

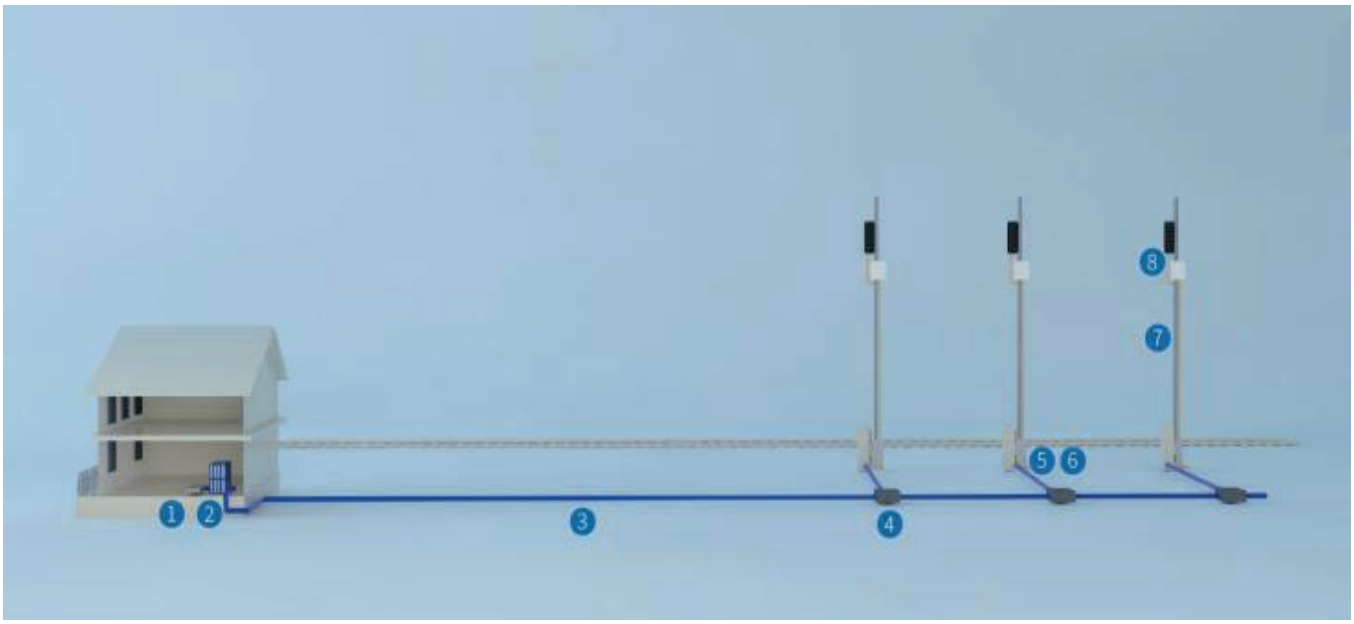
1.Point-to-point
Scenario: network with single RRU or multple RRUs
Applicable to the situationwhere RT devices are gathered at one point but far away from COT
1-COT 2-ODB 3-Hybrid optical and electrical stranded loose tube cable 4-Joint box for hybid cable
5-ODB((lightning-proof) 6-RT 7-Hybrid optical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

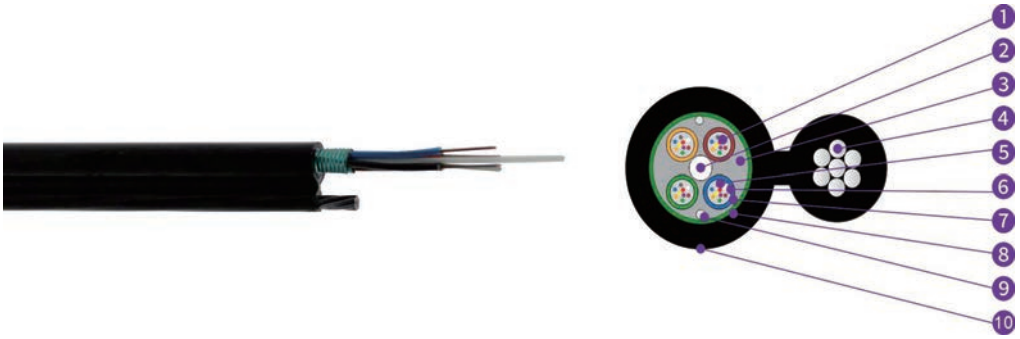
Introduction:

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

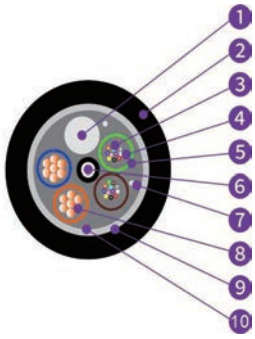
Introduction:

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.

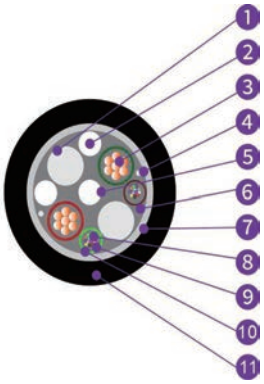
Features:

- 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

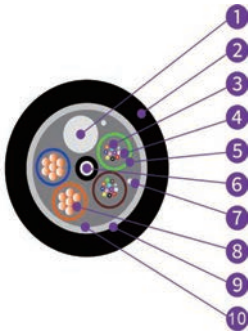
Introduction:

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.

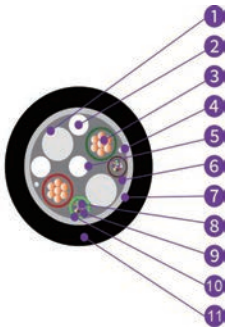
Features:

- 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

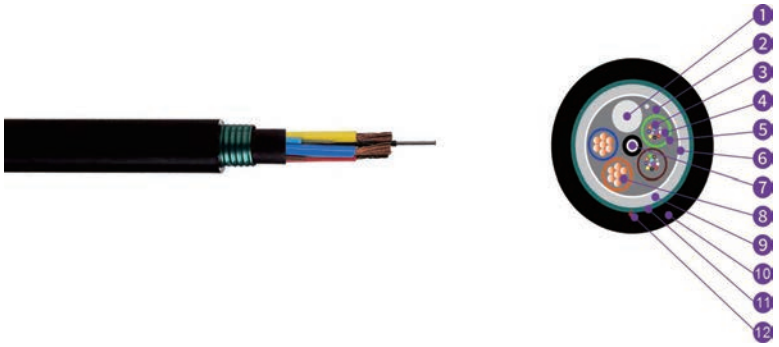
Introduction:

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.

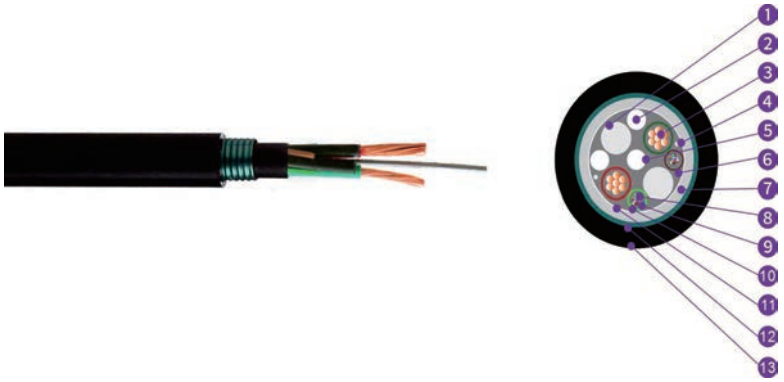
Features:

- 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

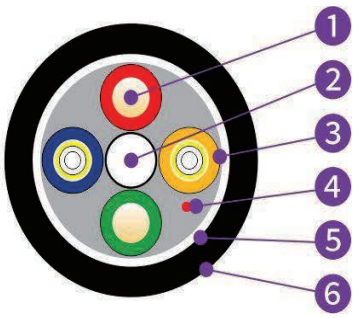
Introduction:

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.

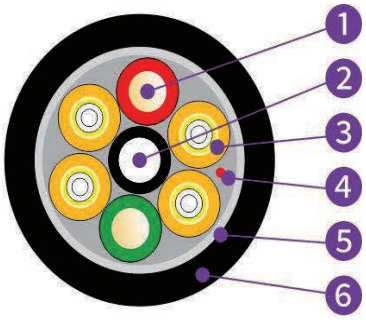
Features:

- 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

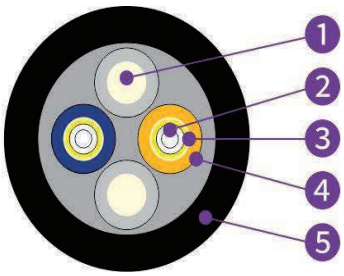
Introduction:

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

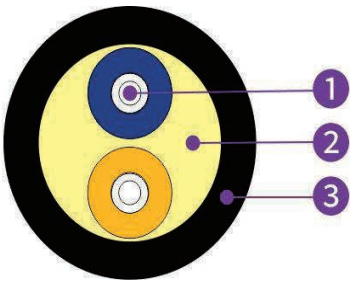
Introduction:

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

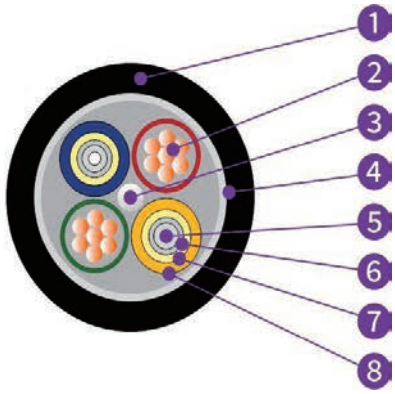
Introduction:

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

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GLOBAL MARKET

China - Head office

Email: info@hello-signal.com
info@zion-communication.com

Mobile/WhatsAPP: 0086 15715730101

ADD: Zion Industrial Park, Huaqiao Road,
Jincheng, Lin'an, Zhejiang, China