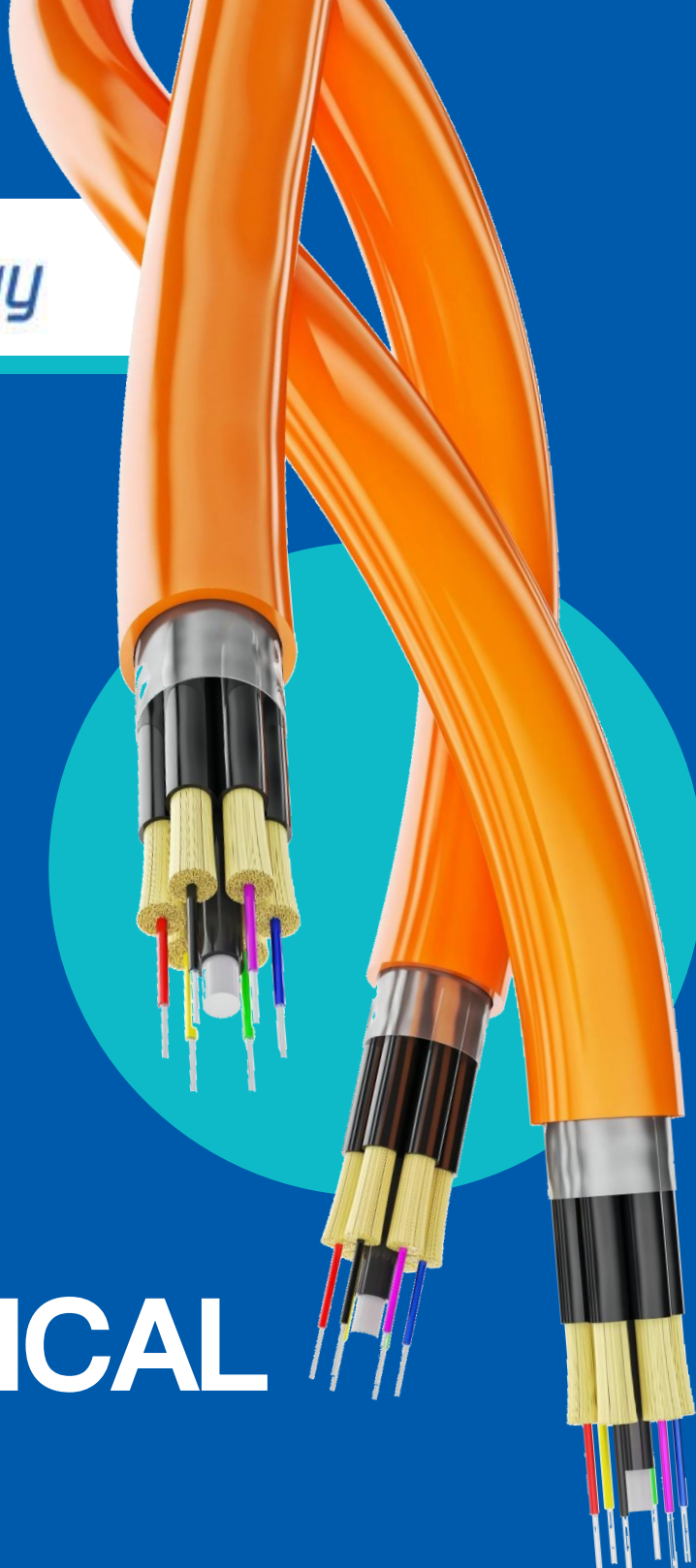


PRODUCT CATALOGUE



FIBER OPTICAL
CABLE SOLUTION

FIBER OPTICAL CABLE

www.defangtech.com

DF Catalog Index 2024

DF Fiber Optical Network Solution

I. Optical Drop Cable

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Optical Cable

a. Bow-type drop optical cable

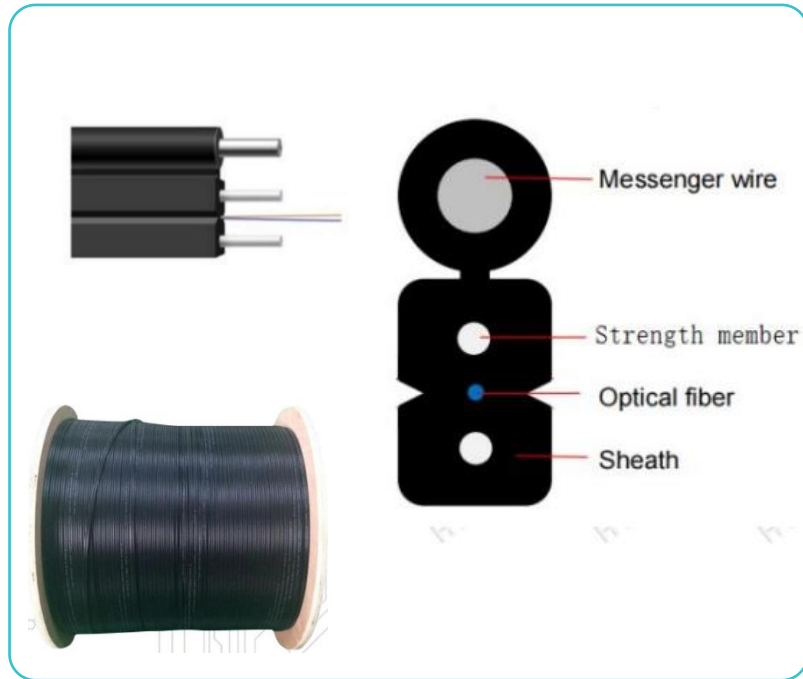
Description

The fiber is positioned in the center. Two parallel metal strength elements are placed at the two sides, a supporting steel wire as the additional strength member is also applied. Then, the cable is completed with the LSZH sheath

Characteristic

- Self-supporting and Non self-supporting all-dry-type structure, convenient and fast in construction adopt the parallel reinforced structure, provide sufficient mechanical protection
- The excellent stripping capacity doesn't need any professional tools
- Directly connect the outdoor optical cable and the residential building, and the equipment

Product image



General requirements of optical cable

Item	contents	Value
Fiber	Count	1
	Type	G.657a1
Strength member	Material	Phosphating Steel wire with EAA
	Diameter(mm)	0.45±0.05
	Count	2
Outer sheath	Material	LSZH
	Color	Black
Messenger wire	Material	Phosphating Steel wire with EAA
	Diameter(mm)	1.0±0.05
Cable diameter(mm)		2.0 (±0.1) x 5.1 (±0.2) ,
Attenuation at 1310 nm		<0.4 dB/Km
Attenuation at 1550 nm		<0.3dB/Km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	2.0x5.1	20	300	600	1000	2200	20D	10D	-40~+70

Part Number	Description
DFFIG8-1CMB-07	Drop cable G657A1 1Cores Strength member(0.45mm Phosphide steel wire*2 with EAA)+Messenger wire(1.0mm Phosphide steel wire with EAA) BLACK LSZH JACKET (No-flame retardaent) 2.0*5.1MM 1KM/REEL

Optical Cable

a. Bow-type drop optical cable

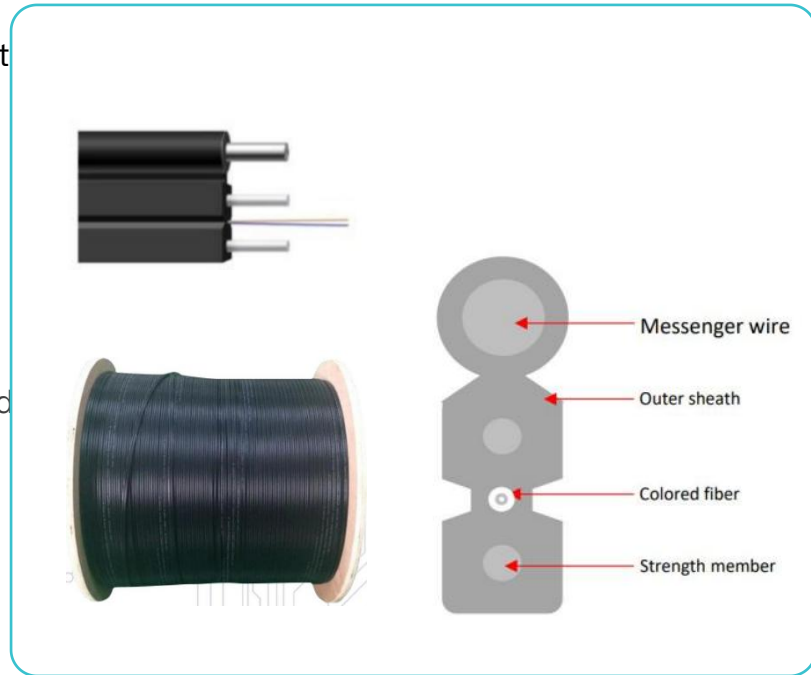
Description

The fiber is positioned in the center. Two parallel metal strength elements are placed at the two sides, a supporting steel wire as the additional strength member is also applied. Then, the cable is completed with the LSZH sheath

Characteristic

- Self-supporting and Non self-supporting all-dry-type structure, convenient and fast in construction adopt the parallel reinforced structure, provide sufficient mechanical protection
- The excellent stripping capacity doesn't need any professional tools
- Directly connect the outdoor optical cable and the residential building, and the equipment

Product image



General requirements of optical cable

Item	contents	Value
Fiber	Count	1
	Type	G.657A1 (Blue)
Strength member	Material	GFRP
	Diameter(mm)	0.5±0.1
	Count	2
Outer sheath	Material	LSZH
	Color	Black(No flame retardant)
Messenger wire	Material	Phosphating Steel wire with EAA
	Diameter(mm)	1.0±0.05
Cable diameter(mm)		2.0 (±0.1) x 5.0 (±0.2) ,
Attenuation at 1310 nm		<0.4 dB/Km
Attenuation at 1550 nm		<0.3dB/Km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	2.0×5.0	22	300	600	1000	2200	20D	10D	-40~+70

Part Number	Description
DFFIG8-1CMB-22	Drop cable G657A1 1Cores Strength member(0.5mm GFRP wire*2)+Messenger wire(1.0mm Phosphide steel wire with EAA) BLACK LSZH JACKET(No flame retardant) 2.0*5.0MM 1KM/REEL

Optical Cable

a. Bow-type drop optical cable

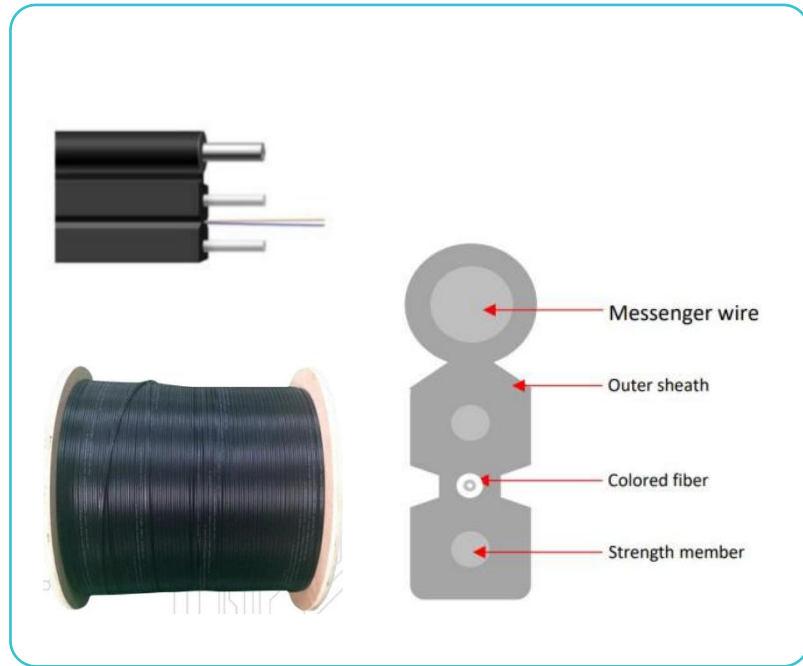
Description

The fiber is positioned in the center. Two parallel metal strength elements are placed at the two sides, a supporting steel wire as the additional strength member is also applied. Then, the cable is completed with the LSZH sheath

Characteristic

- Self-supporting and Non self-supporting all-dry-type structure, convenient and fast in construction adopt the parallel reinforced structure, provide sufficient mechanical protection
- The excellent stripping capacity doesn't need any professional tools
- Directly connect the outdoor optical cable and the residential building, and the equipment

Product image



General requirements of optical cable

Item	contents	Value
Fiber	Count	1
	Type	G.657A1 (Blue)
Strength member	Material	Phosphating Steel wire
	Diameter(mm)	0.45±0.05
	Count	2
Outer sheath	Material	LSZH
	Color	Black(No flame retardant)
Messenger wire	Material	Phosphating Steel wire
	Diameter(mm)	1.0±0.05
Cable diameter(mm)		2.0 (±0.1) x 5.1 (±0.2) ,
Attenuation at 1310 nm		<0.4 dB/Km
Attenuation at 1550 nm		<0.3dB/Km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	2.0×5.1	22	300	600	1000	2200	20D	10D	-40~+70

Part Number	Description
DFFIG8-1CMB-18	Drop cable G657A1 1Cores Strength member(0.45mm Phosphide steel wire*2)+Messenger wire(1.0mm Phosphide steel wire) BLACK LSZH JACKET(No flame retardant) 2.0*5.1MM 1KM/REEL

Optical Cable

a. Bow-type drop optical cable

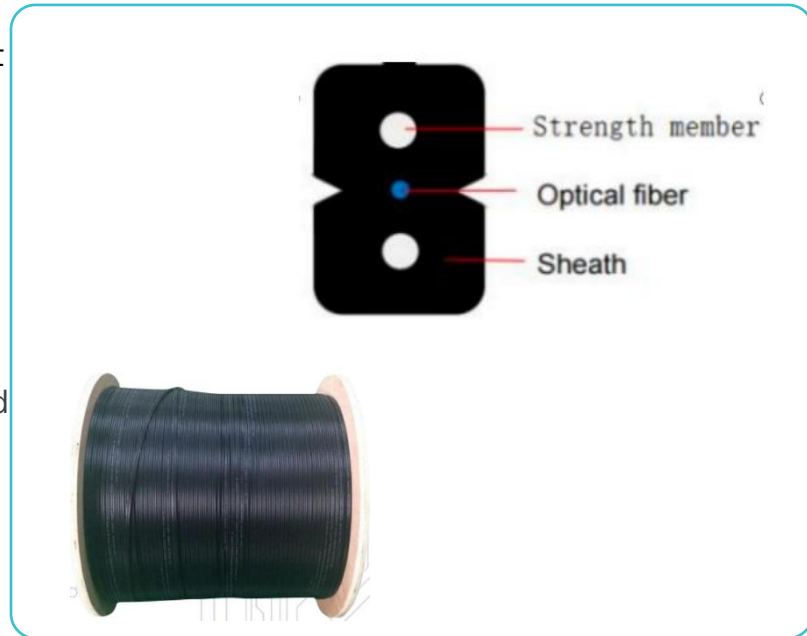
Description

The fiber is positioned in the center. Two parallel metal strength elements are placed at the two sides, Then, the cable is completed with the LSZH sheath

Characteristic

- Self-supporting and Non self-supporting all-dry-type structure, convenient and fast in construction adopt the parallel reinforced structure, provide sufficient mechanical protection
- The excellent stripping capacity doesn't need any professional tools
- Directly connect the outdoor optical cable and the residential building, and the equipment

Product image



General requirements of optical cable

Item	contents	Value
Fiber	Count	1
	Type	G.657A2 (Blue)
Strength member	Material	GFRP
	Diameter(mm)	(0.5*0.6 Glued)
	Count	2
Outer sheath	Material	LSZH
	Color	Black
Cable diameter(mm)		2.0 (±0.1) x3.0 (±0.2) ,
Attenuation at 1310 nm		<0.4 dB/Km
Attenuation at 1550 nm		<0.3dB/Km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	2.0*3.0	15	100	200	1000	2200	20D	10D	-40~+70

Part Number	Description
DFFIG8-1CB-01	Indoor Drop cable G657A2 1Cores Strength member(0.6mm with Glued GFRP*2) BLACK LSZH JACKET(Flame retardant) 2.0*3.0MM

Optical Cable

b. 3.0mm TPU Optical Fiber Cable G657B3

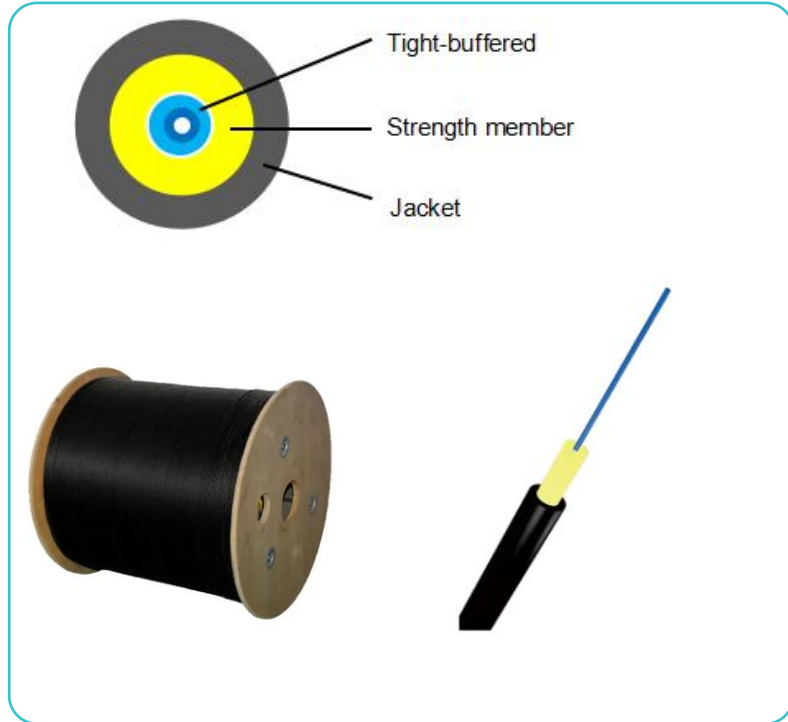
Description

This cable has excellent optical transmission and physical performance, to meet customer requirements. G657B3 has better Attenuation with bending Loss. This drop cable uses single 900um tight buffered fiber as optical transmission medium, covered with aramid yarns as strength member, then extruded with a TPU sheath.

Characteristic

- The vertical and horizontal wiring of the wireless base station with better mechanical and environmental performance anti-flaming (or non-fire-pragation) performance can meet the requirements of the relevant standards
- The mechanical and physical performances of the sheaths can meet relevant standards
- Soft, flexible and convenient in connection, can support a large volume of data transmission

Product image



General requirements of optical cable

Item	contents	Value
Fiber	Count	1
	Type	G.657B3
Tight-buffered Fiber	Tight-buffered Diameter	$\Phi 0.9 \pm 0.05 \text{mm}$
	Tight-buffered Material	LSZH
	Tight-buffered Color	Blue
Outer sheath	Jacket Diameter	$3.0 \text{mm} \pm 0.2 \text{mm}$,
	Jacket Color	Black TPU
Strength member		Aramid yarn
Attenuation at 1310 nm		<0.4 dB/Km
Attenuation at 1550 nm		<0.3dB/Km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	3.0	9.2	200	800	100	500	20D	10D	-40~+70

Part Number

Description

DFGJYFJU1B6B3-01

Simplex Optical Fiber Cable G657B3 OD:3.0mm, Black TPU, 1km/reel

Optical Cable

b. 3.0mm LSZH Optical Fiber Cable G657A2

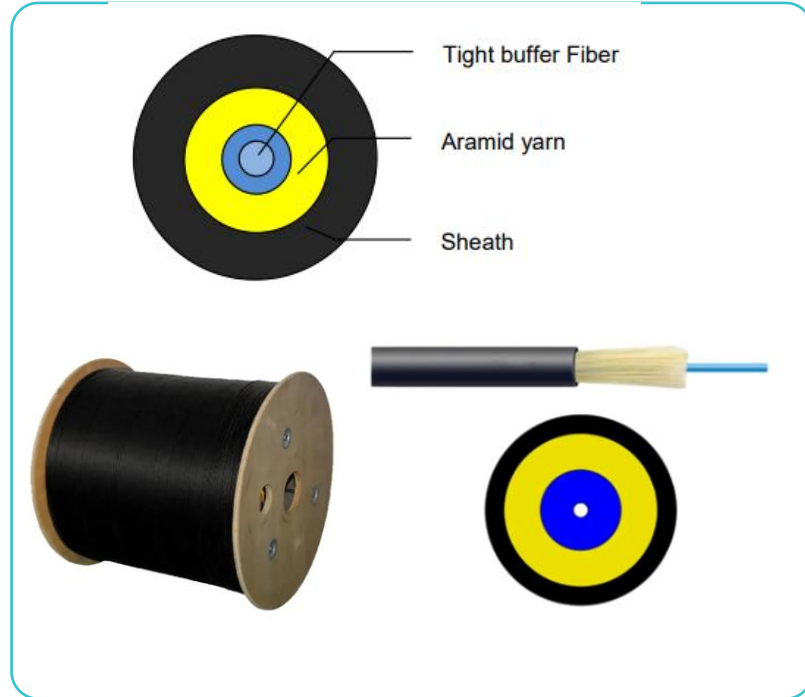
Description

This cable has excellent optical transmission and physical performance, to meet customer requirements. G657A2 has better Attenuation with bending Loss. This drop cable uses single 900um tight buffered fiber as optical transmission medium, covered with aramid yarns as strength member, then extruded with a LSZH sheath.

Characteristic

- The vertical and horizontal wiring of the wireless base station with better mechanical and environmental performance anti-flaming (or non-fire-proragation) performance can meet the requirements of the relevant standards
- The mechanical and physical performances of the sheaths can meet relevant standards
- Soft, flexible and convenient in connection, can support a large volume of data transmission

Product image



General requirements of optical cable

Item	contents	Value
Fiber	Count	1
	Type	G.657B3
Tight-buffered Fiber	Tight-buffered Diameter	Φ0.9±0.05mm
	Tight-buffered Material	LSZH
	Tight-buffered Color	Blue
Outer sheath	Jacket Diameter	3.0mm ±0.2mm,
	Jacket Color	Black LSZH
Strength member		Aramid yarn
Attenuation at 1310 nm		<0.4 dB/Km
Attenuation at 1550 nm		<0.3dB/Km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Tem-perature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	3.0	9.2	300	600	100	500	20D	10D	-40~+70

Part Number	Description
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DFGJYFJH1A2-01 Simplex Optical Fiber Cable G657A2 OD:3.0mm, Black LSZH, 1km/reel

Optical Cable

c. 5.0mm Drop Optical Cable G657A2+PBT Loose tube +LSZH Jacket

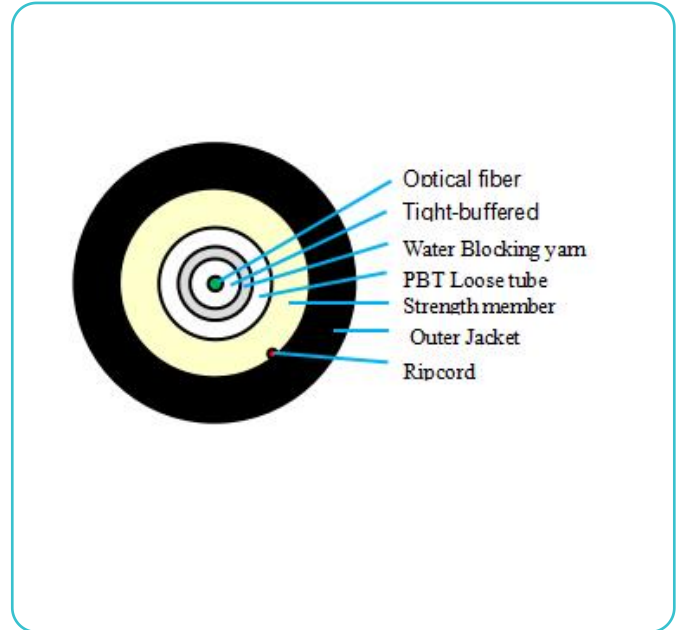
Description

With the tight-tube optical fiber as the basic optical unit, symmetrically distribute the reinforcers in the surrounding, and finally extrude the sheath into the cable. G657A2 has better Attenuation with bending Loss, PBT Loose tube can better protect the fiber and increase the tension

Characteristic

- Tight buffer fibers are housed in high-modulus plastic and with water-blocking material around.
- Aramid yarns & Water blocking glass yarn are applied as strength member.
- High quality raw material guarantees the long service life of cable.

Product image



General requirements of optical cable

Fiber type	G.657A2(ITU-T G.657A2)	
Fiber Coating Color	Blue	
Tight-buffered	Φ0.9 ± 0.05mm, LSZH, White	
Optical cable Dimension	Φ5.0 ± 0.2mm	
Optical cable outer Jacket Color	Black	
Optical cable outer Jacket Material	LSZH (UV)	
Optical cable Thickness	≥0.7mm	
Strength member	Aramid yarn (≥6000dtex) + Water Blocking Glass Yarn (≥90000dtex)	
Ripcord	1P, Red	
Loose tube	Material	PBT, White
	Dimension	Φ2.0 ± 0.1mm
Attenuation (dB/km)		≤ 0.4 dB/km @1310nm; ≤ 0.3dB/km @1550nm

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	5.0	28.5	400	1200	500	1200	20D	10D	-20~+70

Part Number	Description
DFGJYXFJH-1B6a2	Simplex Optical Fiber Cable G.657.A2 Loose tube PBT 2.0MM, 5.0MM LSZH Jacket, 2KM/REEL

Optical Cable

c. 5.2mm Drop Optical Cable G657A2+LSZH inner jacket+LSZH Jacket

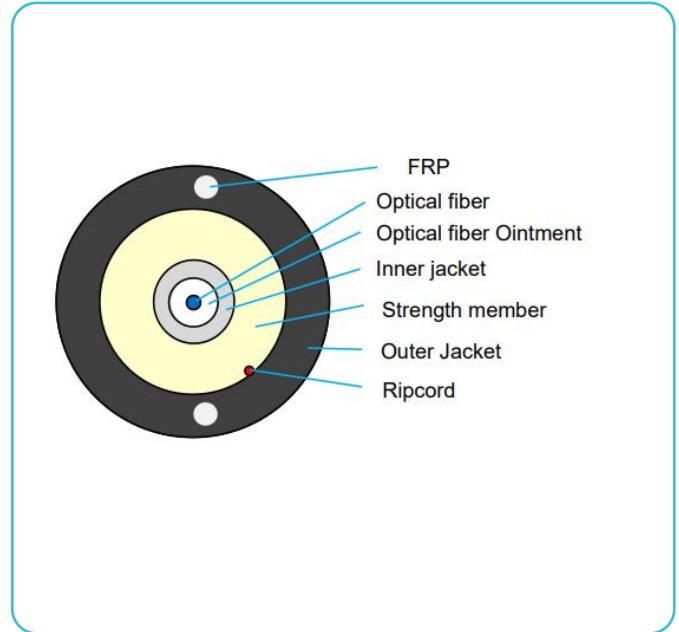
Description

This specification covers the design and performance of the outdoor/Indoor central loose tube optical fibre cables to be used in outdoor application.. G657A2 has better Attenuation with bending Loss, HDPE Jacket provides better UV resistance and protection

Characteristic

- Central loose tube is in the central of the cable. Suitable for outdoor or outdoor application..
- FRP& Water blocking glass yarn are applied as strength member.
- High quality raw material guarantees the long service life of cable.

Product image



General requirements of optical cable

Fiber type		G.657A2(ITU-T G.657A2)
Optical fiber	Fiber Coating Color	Blue
	Diameter (mm)	Φ0.25
Inner cable	Inner jacket Material	PBT
	Diameter (mm)	Φ1.5 ± 0.1
	Water blocking member	Optical fiber Ointment
Optical cable	Outer jacket Material	HDPE (Anti-UV)
	Color	Black
	Diameter (mm)	Φ5.2 ± 0.2
	Thickness (mm)	≥0.8
	Strength member	Water Blocking Glass Yarn (12000dtex*8)
		Outer Jacket GFRP*2 (0.5*0.58mm Glued)
Attenuation (dB/km)		≤ 0.36dB/km @1310nm; ≤ 0.23dB/km @1550nm

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	5.2	32	800	1350	1100	2200	20D	10D	-40~+70

Part Number	Description
DFGYFXTY-1B6a2	Simplex Optical Fiber Cable G.657.A2, Loose tube PBT 1.5MM, with 2 *0.5mmGFRP ,5.2MM HDPE Jacket 2KM/REEL

Optical Cable

d:4*7mm Flat Optical Cable G657A2 PE Jacket

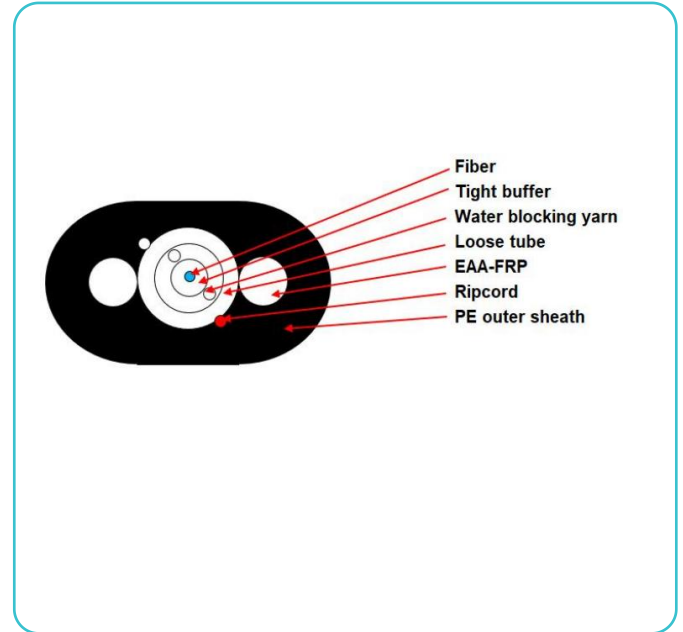
Description

Flat optical cable uses several fibers as optical communication medium. Widely used in Metro ODN network especially inside buildings which have multi-floors and room and two parallel fiber reinforced plastics (FRP) are its strength member. The cable is completed with a PE jacket

Characteristic

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property.
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber.
- Single steel wire as the additional strength member ensure good performance of tensile strength.

Product image



General requirements of optical cable

Item	Contents	Unit	Value
Optical Fiber	Number	/	1
	Diameter	μm	250±15
	Type	/	G657A2
Tight buffer	Diameter	mm	0.9±0.05
	Material	/	LSZH
	Color	/	White
Loose tube	Diameter	mm	2.5±0.1 (PBT material)
	Thickness	mm	0.35±0.05
	Fill material	/	Water blocking yarn
Strength member	Material	/	EAA coated FRP
	Diameter	/	1.2/1.3mm
Outer sheath	Dimension	mm	(4.0±0.2) × (7.0±0.3)
	Color	/	Black
	Material	/	PE

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
1	4.0*7.0	30	800	1350	1000	2000	20D	10D	-40~+70

Part Number	Description
DFGJYFXBY-1B6a2-01	Optical fiber G657A2(Tight buffer:0.9mm LZSH;Loose tube:2.5mm PBT,Strength member:1.2mmEAA coated FRP) BLACK PE JACKET 4.0*7.0mm

02

ADSS CABLE

Optical Cable

Outdoor All-Dielectric Self-Supporting (ADSS), Stranded Loose Tube All-Dielectric

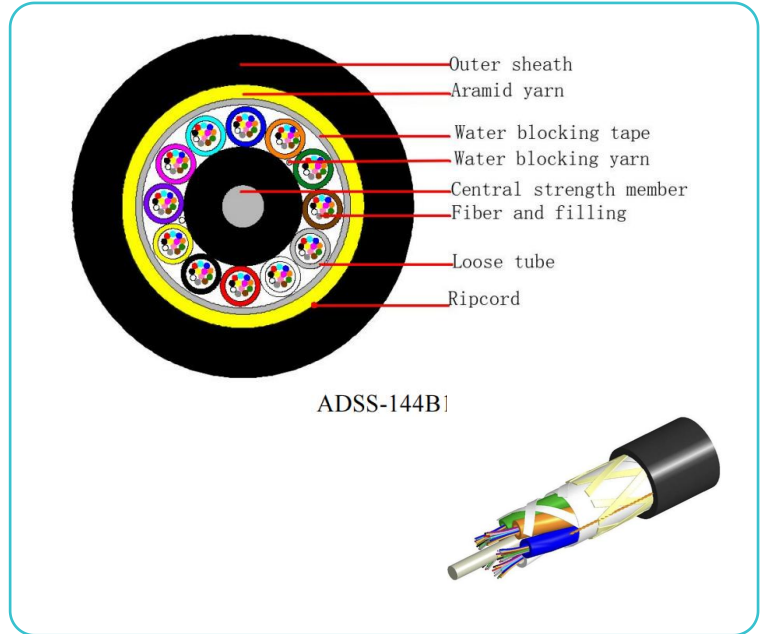
Description

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with waterproof compounds. FRP is applied as central strength member. Loose tubes are SZ stranded around the central strength member. The cable core is covered with water blocking tape to prevent from water ingress. Aramid yarns are wrapped around the cable core as peripheral strength member. Polyethylene outer sheath is extruded around the aramid yarn.

Characteristic

The portfolio includes both armored and dielectric designs available with dry or gel-filled tubes Superior mechanical and optical performance with unmatched stability and quality

Product image



General requirements of optical cable

Items		Descriptions
Optical fiber	Category	G.652D
	Counts	144
Central strength member	Material	FRP
	Diameter (mm) (±0.2)	3.5
	PE cushion(±0.2)	6.5
Number of fibers per tube		12
Loose tube	Material	PBT
	Diameter (mm) (±0.2)	2.2
	Counts	12
Water blocking	Material	Water blocking yarn and tape
Peripheral strength member	Material	Aramid yarns
Outer sheath	Material	PE
	Color	Black
	Thickness(mm)	Nominal: 1.5
	Attenuation at 1310 nm	≤0.36 dB/km
	Attenuation at 1550 nm	≤0.22 dB/km

Performance

Fiber Count	Cable Size(mm)	Cable Weight (kg/km)	Tensile Strength (N)		Crush Resistance (N/100mm)		Bending Radius (mm)		Temperature (°C)
			Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
144	14.2	169	3500	/	1000	300	25D	15D	-40~+70

Part Number	Description
DFADSS-A144-100-01	ADSS Optical Cable Full dry 144Core Span 100(strength member3.5mm FRP+6.5mm PE, Loose tube:2.2mm PBT,Cable diameter:14.2mm HDPE Tension:3500N) 4km/REEL

03

Fiber Optical Fast connector

3. Fast Connector

Factory-installed fiber stub, no epoxy and polishing required, inside with index-matching

Description

Defang Company Field Assembly Connector (Fast Connector) adopts the newest fiber terminal technology. The optical and mechanical properties are all up to the standard jump cable. It provides powerful technical support for FTTH access. The key tech is that pre-installed fiber and inserted fiber connect by matching gel in the groove. It could keep fiber won't be changed by varies temperature, to minimize the insertion loss.

Feature

- Field installable, high reliability.
- Fiber pre-installed, no polishing required
- Compact size, lightweight.
- Suitable for drop cable and pigtail to hom

Product image



Specification

Part Number	Description
DFSCAPCCON-01	ECO. Type for FIG8 Cable

Item	Parameter
Cable Scope	3.0 x 2.0 mm and 1.6*2.0mm Bow-type Drop Cable
Size:	52*9*7.4mm
Fiber Diameter	125μm (652 & 657)
Coating Diameter	250μm
Mode	SM
Operation Time	about 15s (exclude fiber presetting)
Insertion Loss	Average 0.3dB (1310nm & 1550nm)
Return Loss	≤ -50dB for APC
Success Rate	>98%
Reusable Times	>10times
Tighten Strength of Naked Fiber	>5N
Tensile Strength	>50 N (2min)
Temperature	-40 ~ +85°C
On-line Tensile Strength Test (20 N)	IL<0.3dB
Mechanical Durability (500 times)	IL<0.3dB

3. Fast Connector

Field-mountable optical fiber connector

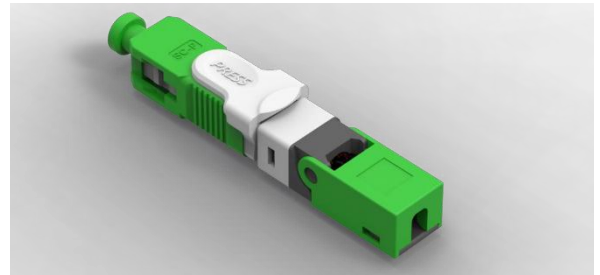
Description

Defang Company Field Assembly Connector (Fast Connector) adopts the newest fiber terminal technology. The optical and mechanical properties are all up to the standard jump cable. It provides powerful technical support for FTTH access. The key tech is that pre-installed fiber and inserted fiber connect by matching gel in the groove. It could keep fiber won't be changed by varies temperature, to minimize the insertion loss.

Feature

- Field installable, high reliability.
- Fiber pre-installed, no polishing required
- Compact size, lightweight.
- Suitable for drop cable and pigtail to hom

Product image



Specification

Part Number	Description
DFESC250D-APC	...
Item	Parameter
Cable Scope	3.0 x 2.0 mm and 1.6*2.0mm Bow-type Drop Cable
Size:	52*9*7.4mm
Fiber Diameter	125μm (652 & 657)
Coating Diameter	250μm
Mode	SM
Operation Time	about 15s (exclude fiber presetting)
Insertion Loss	Average 0.3dB (1310nm & 1550nm)
Return Loss	≤ -55dB for APC
Success Rate	>98%
Reusable Times	>10times
Tighten Strength of Naked Fiber	>5N
Tensile Strength	>30 N (2min)
Temperature	-40 ~ +85°C
On-line Tensile Strength Test (20 N)	IL<0.3dB
Mechanical Durability (500 times)	IL<0.3dB

3. Fast Connector

Factory-installed fiber stub, no epoxy and polishing required, inside with index-matching gel

Description

Defang Company Field Assembly Connector (Fast Connector) adopts the newest fiber terminal technology. The optical and mechanical properties are all up to the standard jump cable. It provides powerful technical support for FTTH access. The key tech is that pre-installed fiber and inserted fiber connect by matching gel in the groove. It could keep fiber won't be changed by varies temperature, to minimize the insertion loss.

Feature

- Field installable, high reliability.
- Fiber pre-installed, no polishing required
- Compact size, lightweight.
- Suitable for drop cable and pigtail to hom

Product image



Specification

Part Number	Description
DFESC950TAPC	3mm and 5mm round cable APC Fast connector
Item	Parameter
Cable Scope	3.0 x 2.0 mm and 1.6*2.0mm Bow-type Drop Cable φ5.0mm, φ3.0mm、φ2.0mm Round Cable
Size:	54*8.7*8.3 ±0.3mm
Fiber Diameter	125μm (652 & 657)
Coating Diameter	250μm
Mode	SM
Operation Time	Less than 2min (Bow-type Drop Cable) Less than 5min (Round Cable)
Insertion Loss	Average 0.3dB (1310nm & 1550nm)
Return Loss	≤ -50dB for APC
Success Rate	>98%
Reusable Times	>3times
Tighten Strength of Naked Fiber	>5N
Tensile Strength	>30 N (2min)
Temperature	-10 ~ +60°C
On-line Tensile Strength Test (20 N)	IL<0.3dB
Mechanical Durability (500 times)	IL<0.3dB

Outdoor Fiber Optical Waterproof Pigtail

Outdoor SCAPC Waterproof Fiber Optic Pigtail 6F Core SM G652D Fiber

Description

Fiber Optic Waterproof Pigtail, which uses single-core cable as the basic component, is a special outdoor cable. Optical waterproof cable pigtail is twisted around the non-metallic central strength member in clockwise direction, water-block yarns outside, steel or aluminum tape used as armored layer, and proper material jacket. The waterproof fiber optic cables are with strong PE jacket and armored structure, they can resist high temperature and suit to use in harsh environment. This kind of cable is usually used as pigtails in interconnect line of equipment, and used as interconnect lines in different buildings.

Product image



Feature

1. Waterproof features & reliable performance
2. Pull & erosion resistance, good grounding
3. Low insertion loss, high return loss, excellent exchangeability, high stability
4. The cable and pigtail is not moved when tighten the connection screw, which ensure the convenient construction.

Specification

Part Number	Description
DFWPSCAPC15M-01	SC/APC to Pigtail with 5/8" Waterproof connector 6F G652D Optical Cable MDPE Black OD:9.8mm Length:15m

Product Structure&Characteristic

No.	Element	Qty/Unit	Requirements
1	SC Connector	6 PCS	SC dust cover green
2		6 PCS	SCIAPC SM simplex connector green
3		6PCS	SC boot green
4	Branch	1 PC	OD=2.0±0.1mm 1F G652D optical cable PVC 6 colors
5	Split kit	1 PC	Heat-shrink tube black with glue
6	Locking	1 PC	Aluminum waterproof connector (5/8"-24)
7	Main Cable	1 PC	OD=9.8±0.5mm 6F G652D Optical Cable MDPE Black

Items		Description
Cable attenuation	Typical	≤0.36 @1310nm; ≤0.22@1550nm
	Maximum	≤0.5@1310nm; ≤0.4 @1550nm
Cable weight (Approx.)±10%	kg/km	100
Min Bending Radius(mm)	Dynamic	30D
	Static	15D
Max allowable tensile(N)	Short term	600
	Long term	300
Max allowable Crush N/100mm	Short term	3000
	Long term	1000