



OPTICAL FIBER CABLE



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Our leading products series includes Telecommunication Installation materials and accessories such as : Different types of Telecom Towers, Diesel Generators, RF Products, Connectors & Optical Fiber Cables , Containers, Mobile BTS & Treylers, Green Energy Equipments (solar panel, wind turbines etc.), Wire Fence, Diesel Tanks, Air Conditioners and Some Other Installation Materials such as Power cables, Grounding Materials, Mounting Materials, Feeders & Connectors , PCM & DDF Modules and Sensors ...

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As our customer, you can have the privilege of saving considerable amount of investment with our competitive prices and unsurpassed dedication to our customers need.

OPTICAL FIBER CABLE

The optical fiber cable products involve four main series: central tube cables (2-12 fiber cores), layer stranded cables (2-288 fiber cores), special cables (2-144 fiber cores) like non-metallic cable, all dielectric self-supporting (ADSS) cable, overhead optical ground wire (OPGW), underwater cable, flame-retardant cable, anti-termite cable, indoor flexible cable, G.655 fiber cable, tight-buffered cable, integrated drop-type cable, etc., central tube & layer stranded ribbon cables. The products are extensively used in varied fields like key provincial and municipal projects, national trunk communication lines etc. The Group has state-of-the-art equipment, complete testing and inspection means, first-rate technologies (enjoying dozens of autonomous patented technologies) as well as scientific management system.

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Direct Burial Outdoor Optical Cable

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GYTA

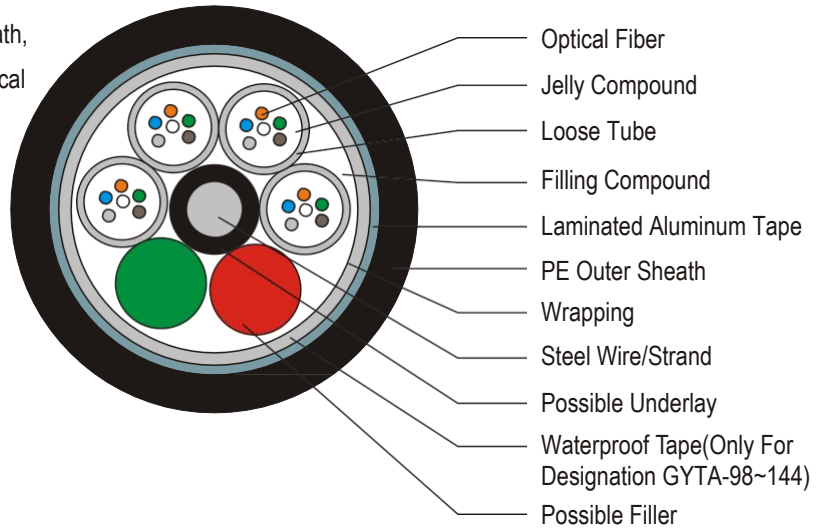
Loose tube, metallic type, LAP sheath

Description

Loose tube style, optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheathed. Cable protected by a black PE overshath, suitable for duct or aerial application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Duct or Aerial
- Long-haul communication systems
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | Steel wire/strand diameter (mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight (kg/km) |
|--------------|--------------------------------|---------------------------------|----------------|-----------------------------|------------------------------|
| GYTA-2~30 | 6 | 1.6 | 5 | 10.6 | 108 |
| GYTA-32~36 | 6 | 2.3 | 6 | 11.3 | 135 |
| GYTA-38~60 | 12 | 2.0 | 5 | 12.0 | 140 |
| GYTA-62~72 | 12 | 2.3 | 6 | 12.8 | 165 |
| GYTA-74~96 | 12 | 2.3 | 8 | 14.5 | 200 |
| GYTA-98~120 | 12 | 2.3 | 10 | 16.5 | 246 |
| GYTA-122~144 | 12 | 2.3 | 12 | 18.5 | 300 |

Mechanical & Environmental Characteristics

| Item | Characteristics | |
|------------------------|-------------------------|-------------|
| | GYTA-2~60 | GYTA-62~144 |
| Tensile Strength Crush | 1500N | 3000N |
| Resistance Minimum | 1000N/100mm | |
| Bending Radius | | |
| During Installation | 20 Times Cable Diameter | |
| After Installation | 10 Times Cable Diameter | |
| Temperature Range | | |
| Storage | -50°C to +70°C | |
| Operating | -40°C to +60°C | |



GYTS

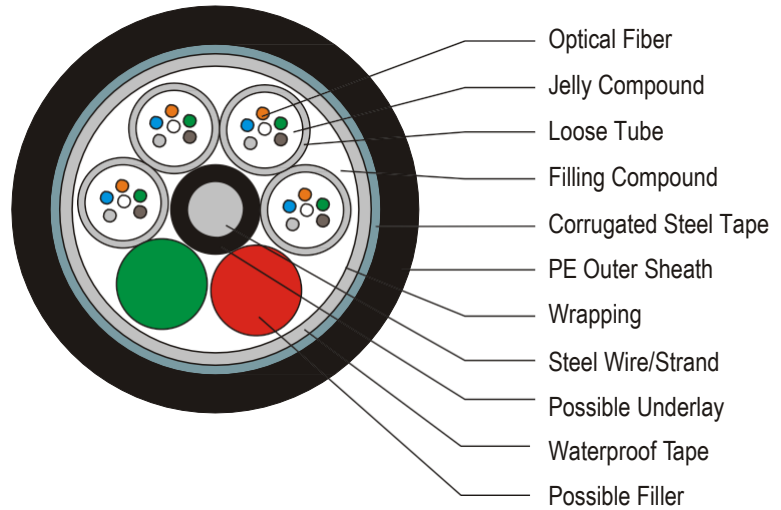
Loose tube, metallic type, SP sheath

Description

Loose tube style, optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheathed. Cable protected by a black PE overshath, suitable for duct or aerial application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Duct or Aerial
- Long-haul communication systems
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | Steel wire/strand diameter (mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight (kg/km) |
|--------------|--------------------------------|---------------------------------|----------------|-----------------------------|------------------------------|
| GYTS-2~30 | 6 | 1.6 | 5 | 10.8 | 130 |
| GYTS-32~36 | 6 | 2.3 | 6 | 11.6 | 160 |
| GYTS-38~60 | 12 | 2.0 | 5 | 12.3 | 167 |
| GYTS-62~72 | 12 | 2.3 | 6 | 13.1 | 193 |
| GYTS-74~96 | 12 | 2.3 | 8 | 14.8 | 230 |
| GYTS-98~120 | 12 | 2.3 | 10 | 16.5 | 277 |
| GYTS-122~144 | 12 | 2.3 | 12 | 18.5 | 335 |

Mechanical & Environmental Characteristics

| Item | Characteristics | |
|------------------------|-------------------------|-------------|
| | GYTS-2~60 | GYTS-62~144 |
| Tensile Strength Crush | 1500N | 3000N |
| Resistance Minimum | 1000N/100mm | |
| Bending Radius | | |
| During Installation | 20 Times Cable Diameter | |
| After Installation | 10 Times Cable Diameter | |
| Temperature Range | | |
| Storage | -50℃ to +70℃ | |
| Operating | -40℃ to +60℃ | |



GYFTY

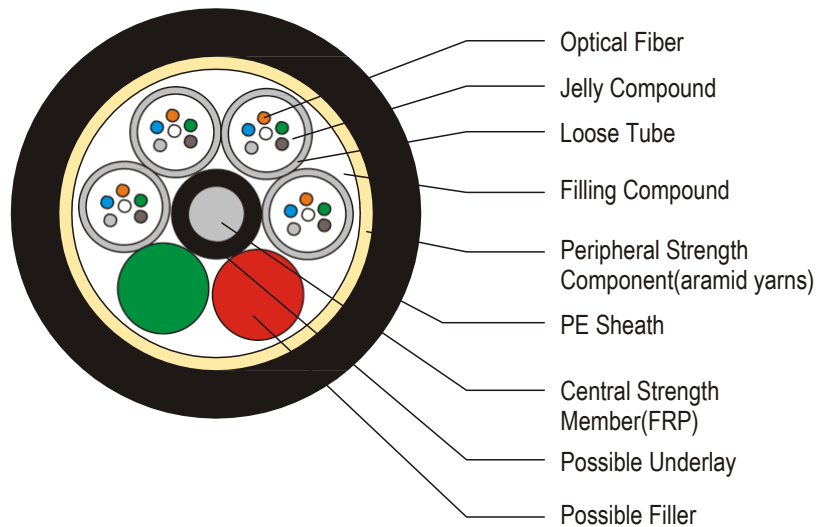
Loose tube, all-dielectric type, PE sheath

Description

Loose tube style, optical fiber cable with non-metallic central strength member of FRP and peripheral strength members and polyethylene sheath suitable for duct or aerial installation in area with high incidence of lightning or exposure to high voltage. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in areas with high incidence of lightning
- In the vicinity of power lines or plants
- Ducts/aerial installation



Dimensional Characteristics

| Designation | Max. Number of fibers per tube | FRP diameter (mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight (kg/km) |
|---------------|--------------------------------|-------------------|----------------|-----------------------------|------------------------------|
| GYFTY-2~24 | 4 | 2.3 | 6 | 10.6 | 92 |
| GYFTY-26~72 | 12 | 2.8 | 6 | 12.2 | 121 |
| GYFTY-74~96 | 12 | 2.8 | 8 | 13.9 | 156 |
| GYFTY-98~120 | 12 | 2.8 | 10 | 15.8 | 197 |
| GYFTY-122~144 | 12 | 2.8 | 12 | 17.8 | 248 |

Mechanical & Environmental Characteristics

| Item | Characteristics | | |
|------------------------|-----------------|-------------------------|--------------|
| | GYFTY-2~24 | GYFTY-26~96 | GYFTY-98~144 |
| Tensile Strength | 1500N | 2000N | 3000N |
| Crush Resistance | 1000N/100mm | 1000N/100mm | 1000N/100mm |
| Minimum Bending Radius | | | |
| During Installation | | 20 Times Cable Diameter | |
| After Installation | | 10 Times Cable Diameter | |
| Temperature Range | | | |
| Storage | | -50°C to +70°C | |
| Operating | | -40°C to +60°C | |



GYFTA

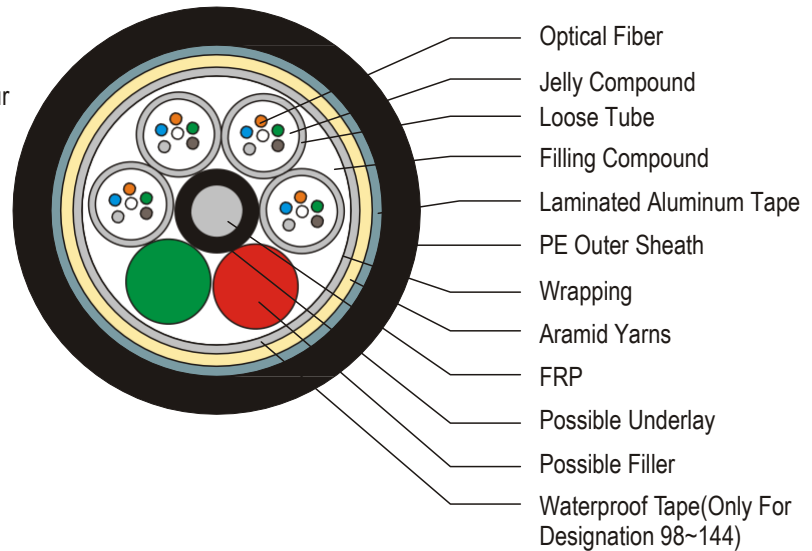
Loose tube, metallic type, LAP sheath

Description

Loose tube style, optical fiber cable with non-metallic central strength member of FRP and peripheral strength members with moisture barrier inner sheathed. Cable protected by a black PE overshath, suitable for duct or aerial application. Tubes contain optical single-mode or multimode fibers colour coding scheme.

Applications

- Usable in Duct or Aerial
- Long-haul communication system
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | FRP diameter (mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight (kg/km) |
|---------------|--------------------------------|-------------------|----------------|-----------------------------|------------------------------|
| GYFTA-2~36 | 6 | 2.3 | 6 | 11.3 | 112 |
| GYFTA-38~72 | 12 | 2.8 | 6 | 12.8 | 144 |
| GYFTA-74~96 | 12 | 2.8 | 8 | 14.8 | 179 |
| GYFTA-98~120 | 12 | 2.8 | 10 | 16.7 | 225 |
| GYFTA-122~144 | 12 | 2.8 | 12 | 18.7 | 279 |

Mechanical & Environmental Characteristics

| Item | Characteristics | |
|------------------------|-------------------------|--------------|
| | GYFTA-2~72 | GYFTA-74~144 |
| Tensile Strength | 1500N | 3000N |
| Crush Resistance | 1000N/100mm | |
| Minimum Bending Radius | | |
| During Installation | 20 Times Cable Diameter | |
| After Installation | 10 Times Cable Diameter | |
| Temperature Range | | |
| Storage | -50 °C to +70 °C | |
| Operating | -40 °C to +60 °C | |



GYFTS

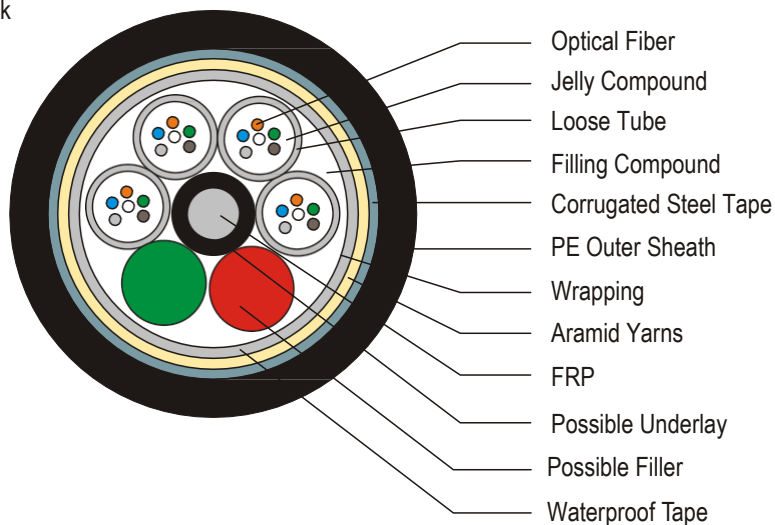
Loose tube, metallic type, SP sheath

Description

Loose tube style, optical fiber cable with non-metallic central strength member of FRP and peripheral strength members with moisture barrier inner sheath. Cable protected by a black PE oversheath, suitable for duct or aerial application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Duct or Aerial
- Long-haul communication system
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | FRP diameter (mm) | Stranded units | Nominal cable diameter(mm) | Nominal cable weight(kg/km) |
|---------------|--------------------------------|-------------------|----------------|----------------------------|-----------------------------|
| GYFTS-2~36 | 6 | 2.3 | 6 | 11.6 | 136 |
| GYFTS-38~72 | 12 | 2.8 | 6 | 13.1 | 172 |
| GYFTS-74~96 | 12 | 2.8 | 8 | 15.0 | 209 |
| GYFTS-98~120 | 12 | 2.8 | 10 | 16.7 | 256 |
| GYFTS-122~144 | 12 | 2.8 | 12 | 18.7 | 314 |

Mechanical & Environmental Characteristics

| Item | Characteristics | |
|------------------------|-------------------------|--------------|
| | GYFTS-2~72 | GYFTS-74~144 |
| Tensile Strength | 1500N | 3000N |
| Crush Resistance | 1000N/100mm | |
| Minimum Bending Radius | | |
| During Installation | 20 Times Cable Diameter | |
| After Installation | 10 Times Cable Diameter | |
| Temperature Range | | |
| Storage | -50°C to +70°C | |
| Operating | -40°C to +60°C | |



GYTY53

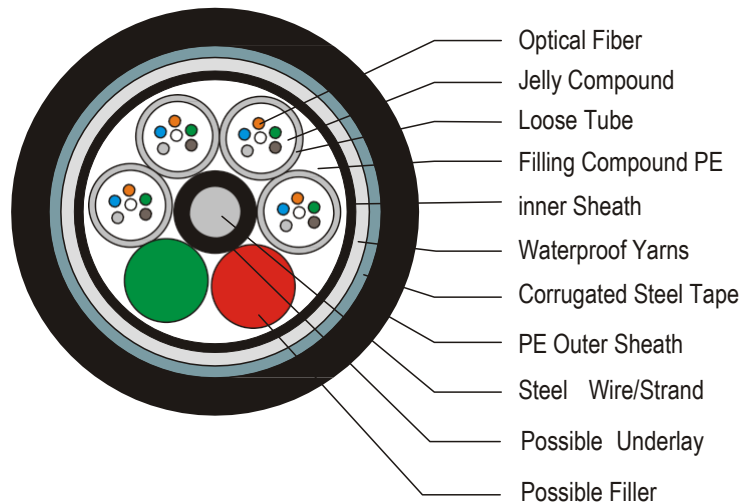
Loose tube, metallic type, PSP sheath

Description

Loose tube style, optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheathed. Cable protected by a corrugated steel armouring and black PE oversheath for protection against mechanical damage and termite or rodent attack, suitable for direct buried or aerial application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Direct burial or Aerial
- Long-haul communication system
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | Steel wire/strand diameter (mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight (kg/km) |
|-----------------|--------------------------------|---------------------------------|----------------|-----------------------------|------------------------------|
| GYTY53-2 ~36 | 6 | 2.3 | 6 | 13.9 | 206 |
| GYTY53-38 ~72 | 12 | 2.3 | 6 | 15.5 | 242 |
| GYTY53-74 ~96 | 12 | 2.3 | 8 | 17.2 | 288 |
| GYTY53-98 ~120 | 12 | 2.3 | 10 | 18.9 | 339 |
| GYTY53-122 ~144 | 12 | 2.3 | 12 | 20.8 | 400 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Crush Resistance | 3000N/100mm |
| Temperature Range | |
| Storage | -50°C to +70°C |
| Operating | -40°C to +60°C |



GYFTY53

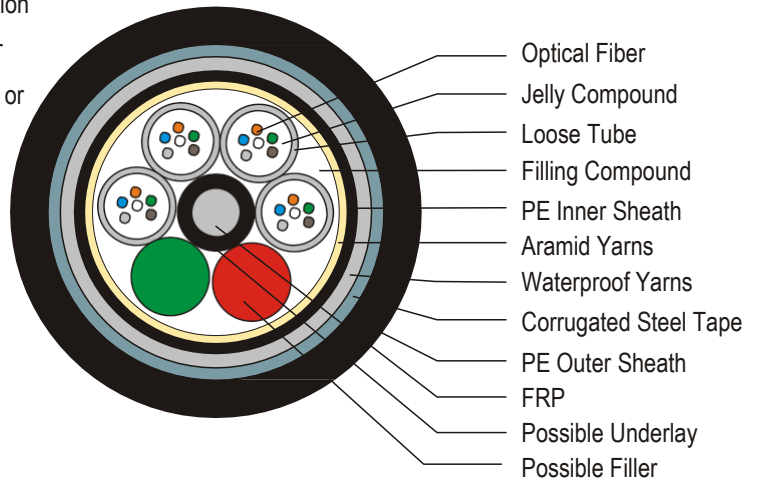
Loose tube, non-metallic strength member, PSP sheath

Description

Loose tube style, optical fiber cable with non-metallic central strength member of FRP and moisture barrier inner sheathed. Cable protected by a corrugated steel armouring and black PE overshath for protection against mechanical damage and termite or rodent attack, suitable for direct buried or aerial application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Direct burial or Aerial
- Long-haul communication system
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | FRP diameter(mm) | Stranded units | Nominal cable diameter(mm) | Nominal cable weight(kg/km) |
|-----------------|--------------------------------|------------------|----------------|----------------------------|-----------------------------|
| GYFTY53-2~36 | 6 | 2.3 | 6 | 13.9 | 182 |
| GYFTY53-38~72 | 12 | 2.8 | 6 | 15.5 | 221 |
| GYFTY53-74~96 | 12 | 2.8 | 8 | 17.2 | 267 |
| GYFTY53-98~120 | 12 | 2.3 | 10 | 18.9 | 318 |
| GYFTY53-122~144 | 12 | 2.8 | 12 | 20.8 | 379 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Crush Resistance | 3000N/100mm |
| Temperature Range | |
| Storage | -50℃ to +70℃ |
| Operating | -40℃ to +60℃ |



GYTA53

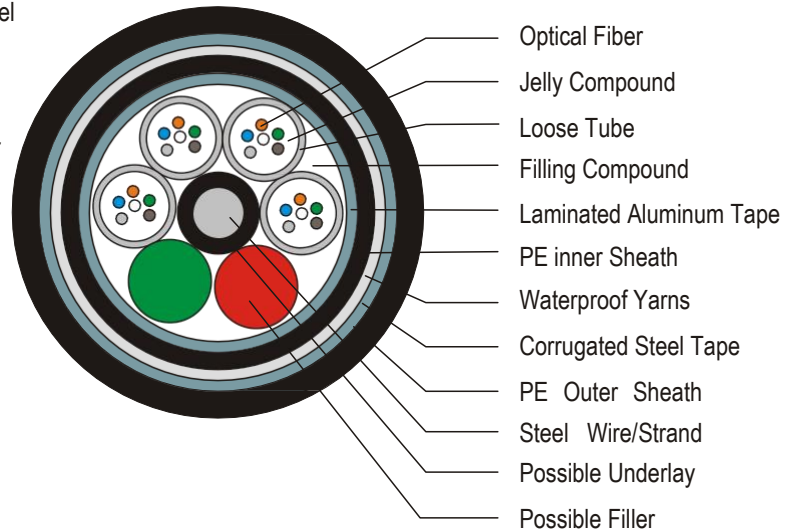
Loose tube, metallic type, APSP sheath

Description

Loose tube style, optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheathed. Cable protected by laminated aluminum tape a corrugated steel armouring and a black PE oversheath for protection against mechanical damage and termite or rodent attack, suitable for direct buried application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Direct burial
- Long-haul communication system
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | Steel wire/strand diameter (mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight(kg/km) |
|----------------|--------------------------------|---------------------------------|----------------|-----------------------------|-----------------------------|
| GYTA53-2~36 | 6 | 2.3 | 6 | 14.9 | 237 |
| GYTA53-38~72 | 12 | 2.3 | 6 | 16.5 | 277 |
| GYTA53-74~96 | 12 | 2.3 | 8 | 18.2 | 327 |
| GYTA53-98~120 | 12 | 2.3 | 10 | 20.3 | 389 |
| GYTA53-122~144 | 12 | 2.3 | 12 | 22.3 | 458 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Crush Resistance | 3000N/100mm |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Temperature Range | |
| Storage | -50℃ to +70℃ |
| Operating | -40℃ to +60℃ |



GYFTA53

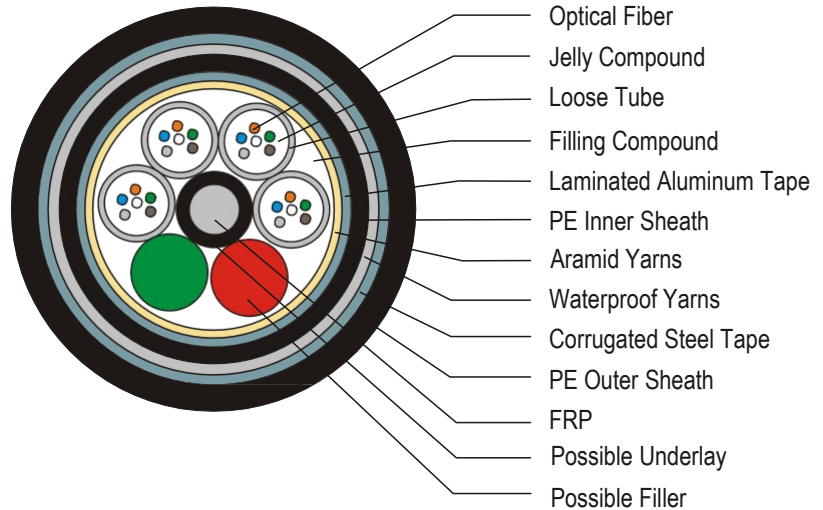
Loose tube, non-metallic strength member, APSP sheath

Description

Loose tube style, optical fiber cable with non-metallic central strength member of FRP and moisture barrier inner sheathed. Cable protected by laminated aluminum tape a corrugated steel armouring and a black PE overshath for protection against mechanical damage and termite or rodent attack, suitable for direct buried application. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable in Direct burial
- Long-haul communication system
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | FRP diameter(mm) | Stranded units | Nominal cable diameter(mm) | Cable weight (kg/km) |
|-----------------|--------------------------------|------------------|----------------|----------------------------|----------------------|
| GYFTA53-2~36 | 6 | 2.3 | 6 | 14.9 | 213 |
| GYFTA53-38~72 | 12 | 2.8 | 6 | 16.5 | 256 |
| GYFTA53-74~96 | 12 | 2.8 | 8 | 18.2 | 306 |
| GYFTA53-98~120 | 12 | 2.3 | 10 | 20.3 | 368 |
| GYFTA53-122~144 | 12 | 2.8 | 12 | 22.3 | 437 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Crush Resistance | 3000N/100mm |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Temperature Range | |
| Storage | -50℃ to +70℃ |
| Operating | -40℃ to +60℃ |



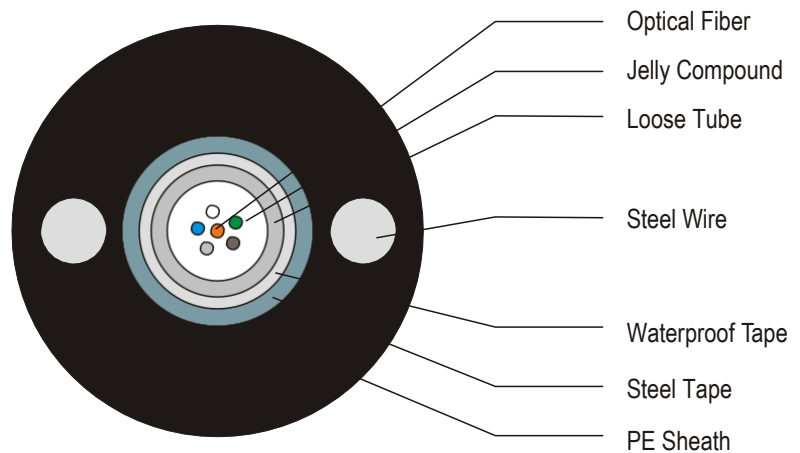
GYXTW

Uni-loose tube, metallic type, SP sheath

Description

Single jelly compound filled loose tube containing up to 12 fibers colour code as per color coding scheme.

surrounded by moisture barrier bonded to polyethylene incorporating two steel wire strength elements. This cable is suitable for outdoor duct, direct burial or aerial applications.



Applications

- Usable for ducts, direct burial, aerial installation
- Long-haul communication system
- Subscriber network systems
- Local area network systems

Dimensional Characteristics

| Designation | Steel wire | Nominal cable diameter(mm) | Nominal cable weight (kg/km) |
|-------------|------------|----------------------------|------------------------------|
| GYXTW-2~12 | Φ1.5mm×2 | 10.5 | 115 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Crush Resistance | 3000N/100mm |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Temperature Range | |
| Storage | -50℃ to +70℃ |
| Operating | -40℃ to +60℃ |



GYXTY

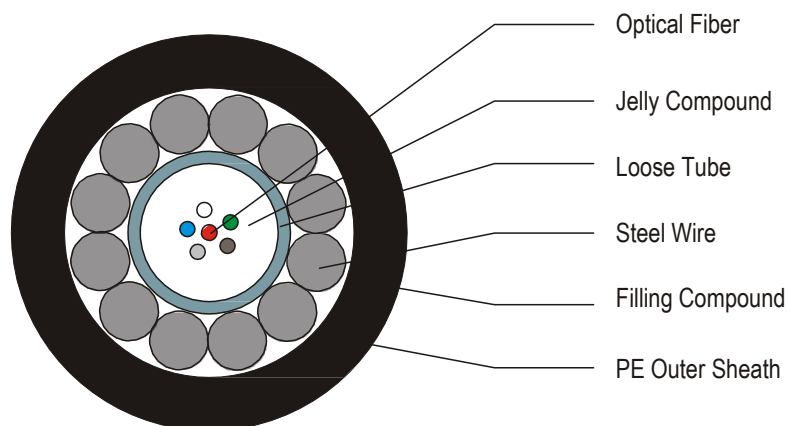
Uni-loose tube, metallic type, SWA, PE sheath

Description

Single jelly compound filled loose tube containing up to 12 fibers colour coded as per color coding scheme, surrounded by a layer of galvanized steel wires and a black PE oversheath. This cable is suitable for outdoor aerial applications.

Applications

- Usable for aerial installation
- Long-haul communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Steel wire | Nominal cable diameter(mm) | Nominal cable weight (kg/km) |
|-------------|------------|----------------------------|------------------------------|
| GYXTY-2~12 | Φ1.0mm×12 | 9.2 | 120 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Crush Resistance | 3000N/100mm |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Temperature Range | |
| Storage | -50℃ to +70℃ |
| Operating | -40℃ to +60℃ |



GYTC8A

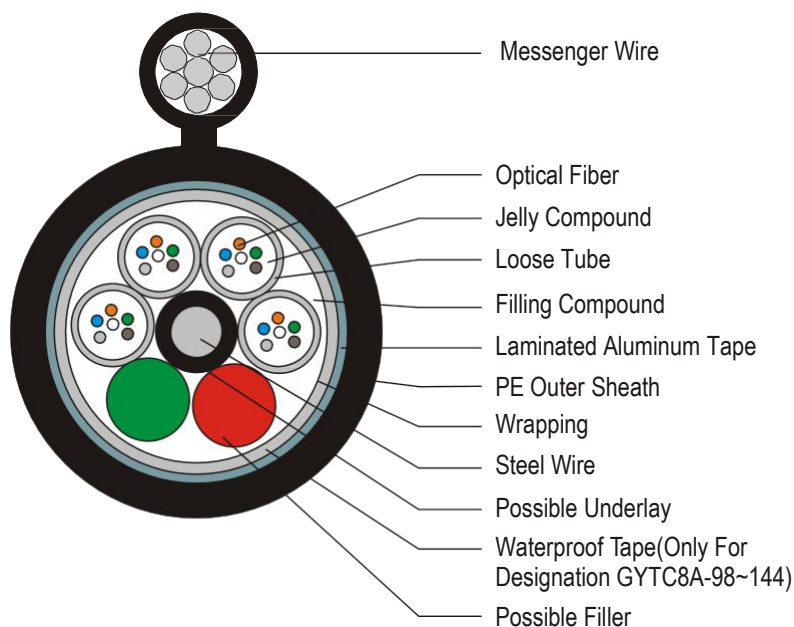
Loose tube, metallic type, LAP sheath

Description

Loose tube style, figure-8 optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheath incorporating steel messenger wire suitable for overhead installation as pole-to-pole or pole-to-premises. Tubes contain optical single-mode or multimode fibers colour coded as per color coding scheme.

Applications

- Usable for aerial installation
- Long-haul communication systems
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | Steel wire/strand diameter(mm) | Stranded units | Nominal cable diameter (mm) | Nominal cable weight(kg/km) |
|----------------|--------------------------------|--------------------------------|----------------|------------------------------|-----------------------------|
| GYTC8A-2~36 | 6 | 2.3 | 6 | 11.6x25.5 | 270 |
| GYTC8A-38~72 | 12 | 2.3 | 6 | 13.2x28.5 | 310 |
| GYTC8A-74~96 | 12 | 2.3 | 8 | 14.9x33.0 | 390 |
| GYTC8A-98~120 | 12 | 2.3 | 10 | 16.8x33.0 | 390 |
| GYTC8A-122~144 | 12 | 2.3 | 12 | 18.8x35.0 | 440 |

Mechanical & Environmental Characteristics

| Item | Characteristics | | |
|------------------------|-----------------|-------------------------|---------------|
| | GYTC8A-2~72 | GYTC8A-74~96 | GYTC8A-98~144 |
| Tensile Strength | 9000N | 10000N | 12000N |
| Crush Resistance | 1000N/100mm | 1000N/100mm | 1000N/100mm |
| Minimum Bending Radius | | | |
| During Installation | | 20 Times Cable Diameter | |
| After Installation | | 10 Times Cable Diameter | |
| Temperature Range | | | |
| Storage | | -50℃ to +70℃ | |
| Operating | | -40℃ to +60℃ | |



GYTC8A53

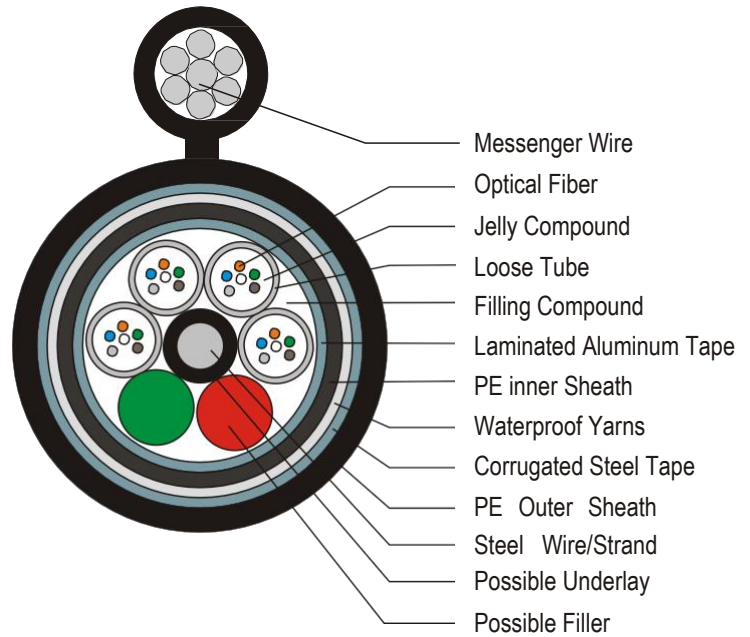
Loose tube, metallic type, APSP sheath

Description

Loose tube style, figure-8 optical fiber cable with metallic central strength member of steel wire/strand and moisture barrier inner sheath incorporating steel messenger wire suitable for overhead installation as pole-to-pole or pole-to-premises. Tubes contain optical single-mode or multimode fibers colour coded as per datasheet color coding scheme.

Applications

- Usable for aerial installation
- Long-haul communication systems
- Junction communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Max. number of fibers per tube | Steel wire/strand diameter(mm) | Stranded units | Nominal cable diameter(mm) | Nominal cable weight(kg/km) |
|------------------|--------------------------------|--------------------------------|----------------|----------------------------|-----------------------------|
| GYTC8A53-2 ~36 | 6 | 2.3 | 6 | 15.2X32.0 | 450 |
| GYTC8A53-50 ~72 | 12 | 2.3 | 6 | 16.8X34.0 | 520 |
| GYTC8A53-74~96 | 12 | 2.3 | 8 | 18.5X38.0 | 630 |
| GYTC8A53-98~120 | 12 | 2.3 | 10 | 20.6X38.0 | 630 |
| GYTC8A53-122~144 | 12 | 2.3 | 12 | 22.6X40.0 | 710 |

Mechanical & Environmental Characteristics

| Item | Characteristics | | |
|------------------------|-----------------|-------------------------|------------------|
| | GYTC8A53-2 ~72 | GYTC8A53-74 ~96 | GYTC8A53-98 ~144 |
| Tensile Strength Crush | 10000N | 12000N | 13000N |
| Resistance Minimum | 3000N/100mm | 3000N/100mm | 3000N/100mm |
| Bending Radius | | | |
| During Installation | | 20 Times Cable Diameter | |
| After Installation | | 10 Times Cable Diameter | |
| Temperature Range | | | |
| Storage | | -50 °C to +70 °C | |
| Operating | | -40 °C to +60 °C | |



GYXTS

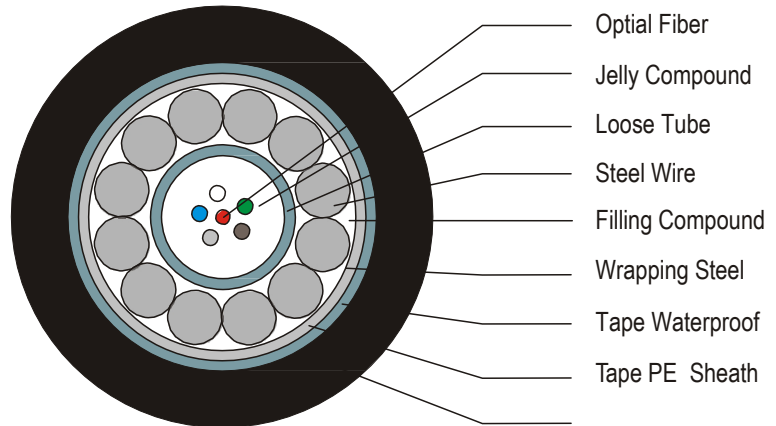
Uni-loose tube, metallic type, SWA, SP sheath

Description

Single jelly compound filled loose tube containing up to 12 fibers colour coded as per color coding scheme, surrounded by a layer of galvanized steel wires, and steel tape bonded to a black PE sheath. This cable is suitable for outdoor direct burial or aerial applications.

Applications

- Usable for direct burial or aerial installation
- Long-haul communication systems
- Subscriber network systems
- Local area network systems



Dimensional Characteristics

| Designation | Steel wire | Nominal cable diameter(mm) | Nominal cable weight (kg/km) |
|-------------|------------|----------------------------|------------------------------|
| GYXTS-2~12 | Φ 1.0mm×12 | 10.6 | 170 |

Mechanical & Environmental Characteristics

| Item | Characteristics |
|------------------------|-------------------------|
| Tensile Strength | 3000N |
| Crush Resistance | 3000N/100mm |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Temperature Range | |
| Storage | -50 ℃ to +70 ℃ |
| Operating | -40 ℃ to +60 ℃ |

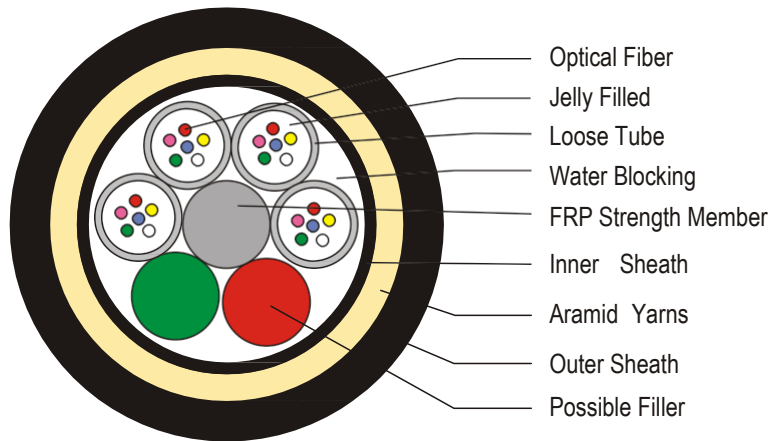


ADSS

All-dielectric self-supporting

Description

Loose tube style, optical fiber cable with FRP central strength member and peripheral aramid yarns and Black polyethylene sheath suitable for overhead installation as pole-to-pole or pole-to-premises. Tubes contain up to 6 Fibers color coded as per color coding scheme.



Applications

- Usable in Power Line
- Pole-to-pole or pole-to premises

Dimensional Characteristics

| Designation | Max. No. Of fibers per tube | FRP diameter(mm) | No. Of Stranded units | cable diameter (mm) | Cable weight (kg/km) |
|-------------|-----------------------------|------------------|-----------------------|---------------------|----------------------|
| 3KN | 4 | 2.3 | 6 | 12.5 | 121 |
| 4KN | 4 | 2.3 | 6 | 12.5 | 123 |
| 6KN | 4 | 2.3 | 6 | 12.5 | 126 |

Mechanical & Environmental Characteristics

| Item | Characteristics ADSS-2 ~24 |
|------------------------|-------------------------------|
| Tensile Strength | As Per Designation |
| Crush Resistance | 2200N/100mm |
| Minimum Bending Radius | |
| During Installation | 20 Times Cable Diameter |
| After Installation | 10 Times Cable Diameter |
| Temperature Range | |
| Storage | -50°C to +70°C |
| Operating | -40°C to +60°C |



OPTICAL FIBER

Technical Parameters

| | | |
|---------------------------|---|---|
| Fiber type | Single-mode | Non-Zero Dispersion Shifted Single Mode |
| Reference | ITU-T G.652 | ITU-T G.655 |
| Applications | Long Distance Telecom. Data Com. CATV. Local Area Networks. | High Capacity Transport Systems, DWDM System |
| Operation Wavelength (nm) | 1310 and 1550 | 1530 ~ 1560 |

Optical characteristic

| | | | |
|---|--------|--------------------------|-------------|
| Attenuation (dB/km) | 1310nm | ≤ 0.35 | - |
| | 1550nm | ≤ 0.22 | ≤ 0.25 |
| Mode Field Diameter (μm) | 1310 | 9.3 ± 0.5 | - |
| | 1550 | 10.5 ± 0.8 | 9.0 ~ 10.0 |
| Cable Cutoff Wavelength (nm) | | 1260 | - |
| Zero Dispersion Wavelength (nm) | | 1300 ~ 1324 | Nom. 1514 |
| Zero Dispersion Slope ($\text{ps}/\text{nm}^2 \cdot \text{km}$) | | ≤ 0.090 | - |
| PMD ($\text{ps}/(\text{km}^2)$) | | Nominal Value ≤ 0.5 | ≤ 0.2 |

Mechanical characteristic

| | | |
|---|---------------|---------------|
| Cladding diameter (μm) | 125 ± 0.8 | 125 ± 1.0 |
| Coating Dia. (μm) | 245 ± 10 | 245 ± 10 |
| Core-Cladding Concentricity Error (μm) | ≤ 0.5 | ≤ 0.8 |
| Cladding Non-circularity (%) | ≤ 1.0 | ≤ 1.0 |
| Proof Test (Strain %) | 1 | 1 |

Color Coding Scheme

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

Sheath Marking

| Cable Type | Fiber Type | Meter Marks | Manufacturer's name or Custome's name (If required) or Both | Year of Manufacture |
|------------|------------|-------------|---|---------------------|
|------------|------------|-------------|---|---------------------|



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