



Fire-Resistance Optical Fiber Cable

Good quality & Good service based on reasonable prices.

- + OEM customized production according to your requirements.
- + Standardized products and services according to our own brand.



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-retardant performances
- 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°C ~70°C

Delivery Length:

Standard length:2000m,Other length availabe



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

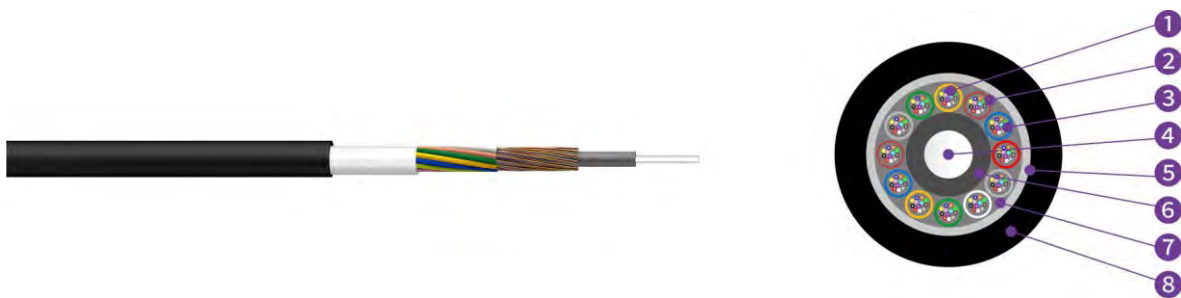
Introduction:

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°C ~70°C

Delivery Length:

Standard length:2000m,Other length availabe



GYTZA53

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

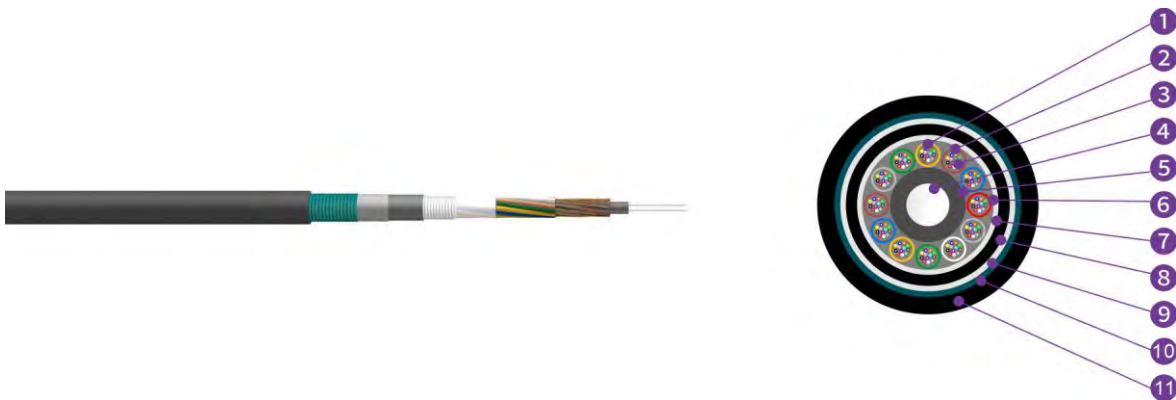
Introduction:

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°C ~70°C

Delivery Length:

Standard length: 2000m; Other length available



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

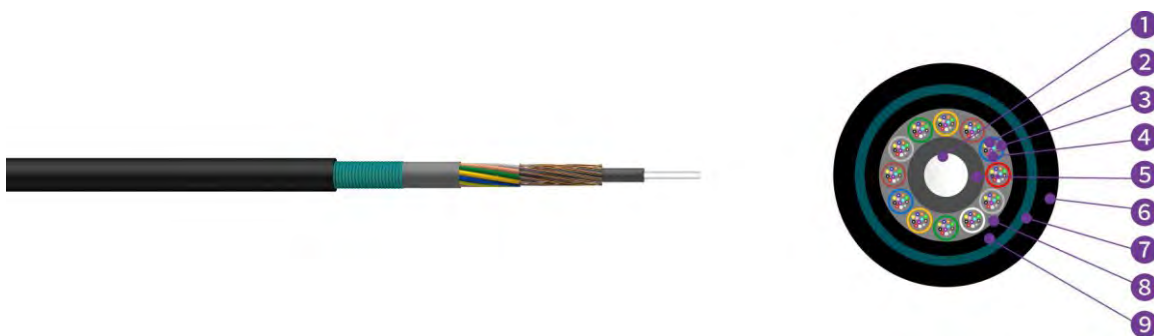
Introduction:

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 control ensuring 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°C ~70°C

Delivery Length:

Standard length:2000m,Other length availabe



GY (F) ZS53

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

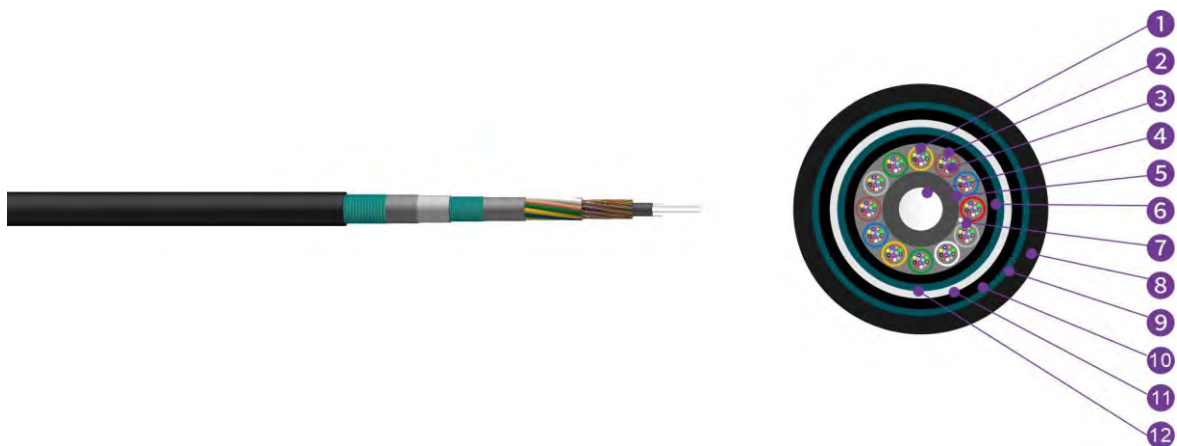
Introduction:

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°C ~70°C

Delivery Length:

Standard length:2000m,Other length availabe



GYZS53+33

Multi-armed Fire-resistance Optical Cable for Railway Transportation

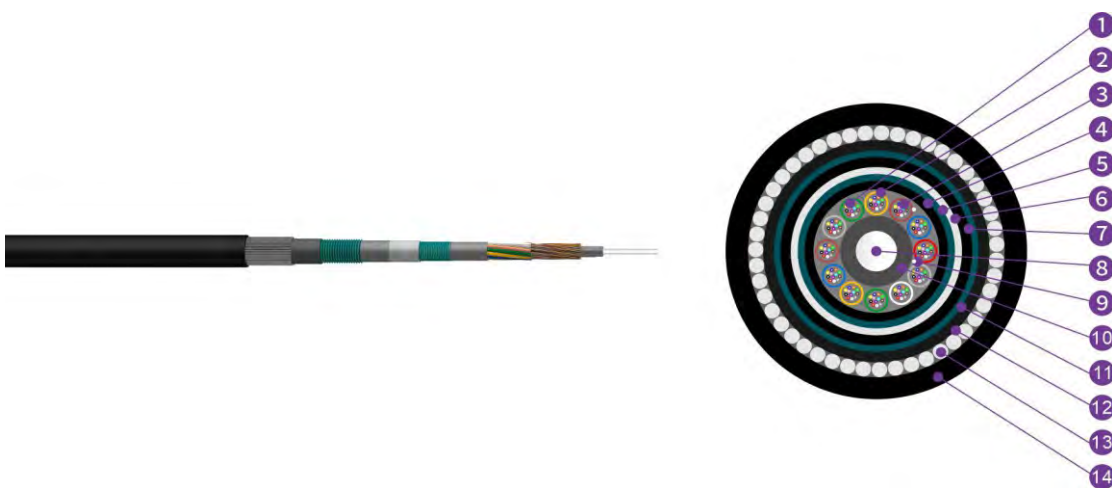
Introduction:

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°C ~70°C

Delivery Length:

Standard length:2000m,Other length availabe



GYFZA04+33

Multi-armed Fire-resistance Optical Cable

Anti-rodent & Anti-termite for Railway Transportation

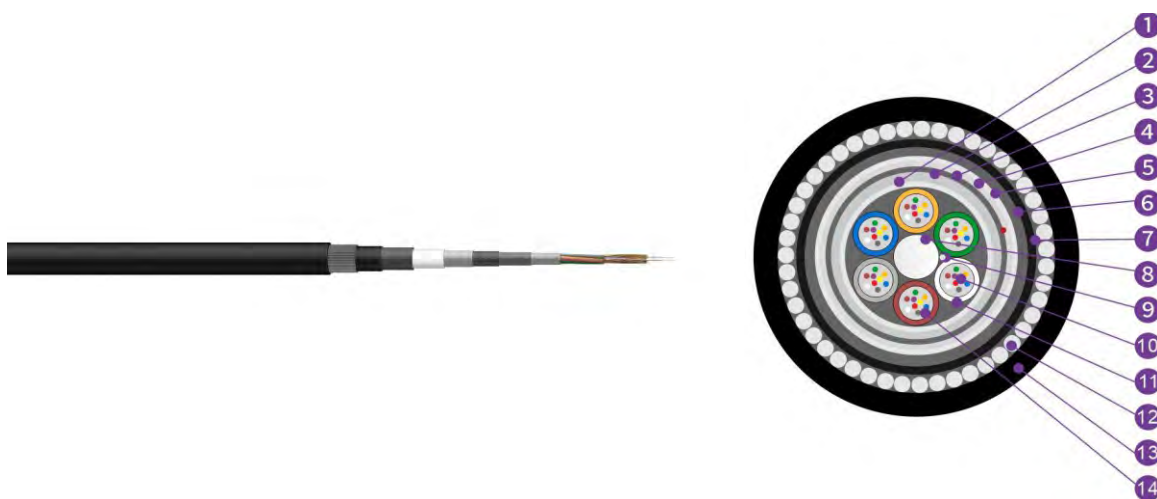
Introduction:

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 high 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°C ~70°C

Delivery Length:

Standard length:2000m,Other length availabe

 GLOBAL MARKET

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