Fiber Optic Cables
光缆系列

前言：光缆命名规制
Foreword: Naming Method Of Fiber Optic Cables

常用光纤型号对照表 Meaning of Fibers' Model Number

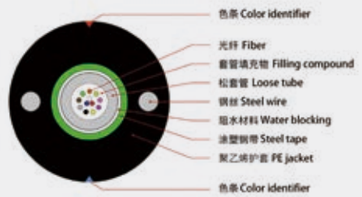
代号 Model Number	光纤类别 Fiber	对应ITUT标准 ITUT
A1a或A1 A1a or A1	50/125μm二氧化硅系渐变型多模光纤 Silica Graded Multimode Fiber	G.651
A1b	62.5/125μm二氧化硅系渐变型多模光纤 Silica Graded Multimode Fiber	G.651
B1.1或B1 B1.1 or B1	二氧化硅普通单模光纤 Silica Singlemode Fiber	G.652
B4	非零色散位移单模式光纤 Non-Zero Dispersion Shifted Singlemode Fiber	G.655

示例 For Example

I	II	III	IV	V	VI	VII
分类	加强构件	光缆结构特征	护套	外护层	光纤芯数	光纤类别
classification	strength member	features of the cable	jacket	outer jacket	fiber counts	type of fiber

GYXTW–12 A1a 室外中心束管油膏填充式钢带纵包轻铠光缆 12芯 多模50光缆

GYXTW-12 A1a Outdoor central loose tube cable, with gel filling, steel tape and armor, 12cores, multimode 50/125um



光缆型号代号含义解析表 Meaning of Fiber Optic Cables' Model Number

光缆型号构成 Components			代号 Code	含义 Meaning
I	分类 Classification		GY	通信用室(野)外光缆 Fiber optic outdoor telecommunication cable
			GM	通信用移动式光缆 Fiber optic mobile telecommunication cable
			GJ	通信用室(局)内光缆 Fiber optic indoor telecommunication cable
			GS	通信用设备内光缆 Fiber optic telecommunication cable used in equipments
			GH	通信用海底光缆 Fiber optic marine telecommunication cable
			GT	通信用特殊光缆 Fiber optic uncommon telecommunication cable
II	加强构件 Strength member		无/None	金属加强构件 Metallic strength member
			F	非金属加强构件 Non-metallic strength member
			G	金属重型加强构件
III	光缆结构特性 Features of the cable		S	光纤松套被覆结构 Loose tube
			J	光纤紧套被覆结构 Tight buffer
			D	光纤带结构 Ribbon fibers
			无/None	层绞式结构 Stranded
			G	骨架槽结构
			X	缆中心管(被覆)结构 Central loose tube
			T	填充式结构 Filling type
			B	扁平结构 Flat
			Z	阻燃 Flame-retardant
			C	自承式结构 Self-supporting
IV	护套 Cable jacket		Y	聚乙烯 PE
			V	聚氯乙烯 PVC
			F	氟塑料 Fluoroplastic
			U	聚氨酯 Polyurethane
			E	聚酯弹性体 TPEE
			A	铝带–聚乙烯粘结护层 Aluminum tape+PE
			S	钢带–聚乙烯粘结护层 Steel tape+PE
			W	夹带钢丝的钢带–聚乙烯粘结护层 Steel tape with steel wire+PE
			L	铝 Aluminum
			G	钢 Steel
			Q	铅 Pliers
V	外护层 Outer jacket	铠装层 Armor	0	无铠装 No- armor
			2	双钢带 Double steel tape
			3	细圆钢丝 Small round steel wire
			4	粗圆钢丝 Thick round steel wire
			5	皱纹钢带 Wrinkled steel tape
		外被层或外套 Outer jacket	6	双层圆钢丝 Double round steel wire
			1	纤维外护套 Stringy outer jacket
			2	聚氯乙烯护套 PVC
			3	聚乙烯护套 PE
			4	聚乙烯护套加敷尼龙护套 PE+Nylon
			5	聚乙烯管 PE tube
VI	光纤 Fiber	芯数 Numbers		直接由阿拉伯数字写出 1/2/3/…
VII	光纤 Fiber	类别 Types	A	多模光纤 Multimode
			B	单模光纤 Singlemode

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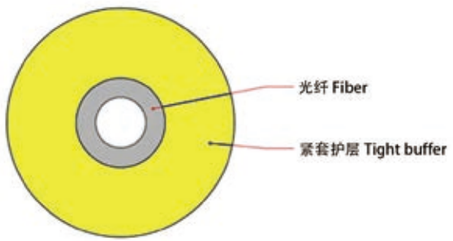
01 Fiber Optic Indoor Cable
常规室内光缆

900um紧套光缆
900um tight buffered fiber cable



技术特点 Characteristics:

- 柔软，弯曲半径小，易剥纤
- 良好的阻燃特性
- 高低温稳定特性
- It's soft with small bending ratio, and easily to be stripped
- Flame- retardant
- It's available under high and low temperatures

应用范围 Applications:

- 室内光缆成缆，半成品订制
- 通信布线中跳线尾纤制作
- 裸纤保护
- Components for indoor fiber cables
- Patch cords and pigtails
- Protection for bare fibers

适用温度范围 Temperatures:

- PVC:A: – 20℃~ + 70℃ B: – 20℃~ + 90℃
- Hytrel: – 40℃~ + 120℃
- LSZH: – 20℃~ + 70℃
- Nylon: – 40℃~ + 120℃

技术参数 Specifications

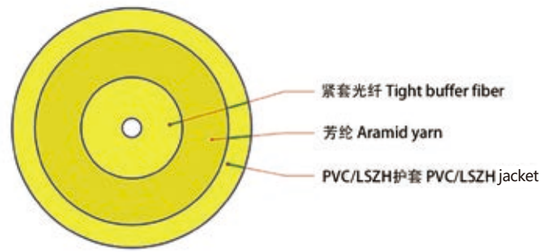
芯数 Fiber count	外径(mm) Outer diameter	最小弯曲半径(mm) Min. bending radius		拉伸力(N) Tension	
		动态 Static	静态 Dynamic	短期 Long term	长期 Short term
1	0.9	20D	10D	6.0	3.0

外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	订制色 Customized	订制色 Customized	订制色 Customized

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFJV单芯室内光缆
GJFJV Simplex indoor cable



技术特点 Characteristics:

- 柔软，弯曲半径小，易剥纤
- 高强度芳纶加强，保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性
- It's soft with small bending ratio, and easily to be stripped
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures

应用范围 Applications:

- 室内管道线槽布线
- 通信布线中跳线尾纤制作
- 室内环境设备连接
- Indoor pipe wiring systems
- Patch cords and pigtails
- Connecting for indoor equipments

适用温度范围 Temperatures:

- PVC:A: – 20℃~ + 70℃ B: – 20℃~ + 90℃
- Hytrel: – 40℃~ + 120℃
- LSZH: – 20℃~ + 70℃
- Nylon: – 40℃~ + 120℃rs

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension		最小弯曲半径(mm) Min. bending radius		压扁力(N/100mm²) Crush Resistance
			短期 Long term	长期 Short term	动态 Static	静态 Dynamic	
1	1.6	3.0	80	40	20D	10D	500
1	1.8	3.5	80	40	20D	10D	500
1	2.0	4.0	100	60	20D	10D	500
1	2.4	6.0	100	60	20D	10D	500
1	3.0	8.0	150	80	20D	10D	500

外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	订制色 Customized	订制色 Customized	订制色 Customized

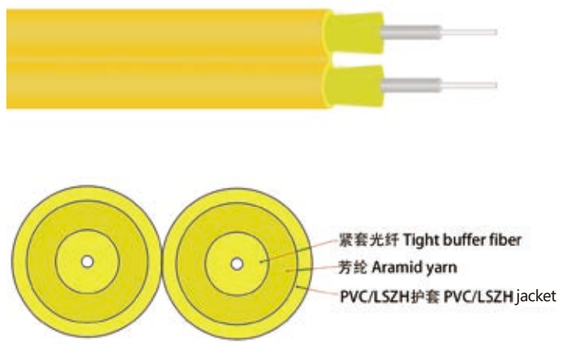
如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFJV 8字双芯室内光缆
GJFJV- Indoor Duplex Zip cord Cable

技术特点 Characteristics:

- 柔软，弯曲半径小,易剥纤
- 高强度芳纶加强，保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性

- It's soft with small bending ratio, and easily to be stripped
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:

- 室内管道线槽布线
- 通信布线中跳线尾纤制作
- 室内环境设备连接

- Indoor pipe wiring systems
- Patch cords and pigtails
- Connecting for indoor equipments

适用温度范围 Temperatures:

- PVC:A: – 20℃ ~ + 70℃ B: – 20℃ ~ + 90℃
- Hytrel: – 40℃ ~ + 120℃
- LSZH: – 20℃ ~ + 70℃
- Nylon: – 40℃ ~ + 120℃

技术参数 Specifications

芯数 Fiber count	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension		最小弯曲半径(mm) Min. bending radius		压扁力(N/100mm²) Crush Resistance
			短期 Long term	长期 Short term	动态 Static	静态 Dynamic	
2	1.6*3.3	6.0	160	80	20H	10H	1000
2	1.8*3.7	7.0	160	80	20H	10H	1000
2	2.0*4.1	8.0	200	100	20H	10H	1000
2	2.4*5.0	11.0	240	120	20H	10H	1000
2	2.8*5.7	14.0	300	160	20H	10H	1000

外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	订制色 Customized	订制色 Customized	订制色 Customized

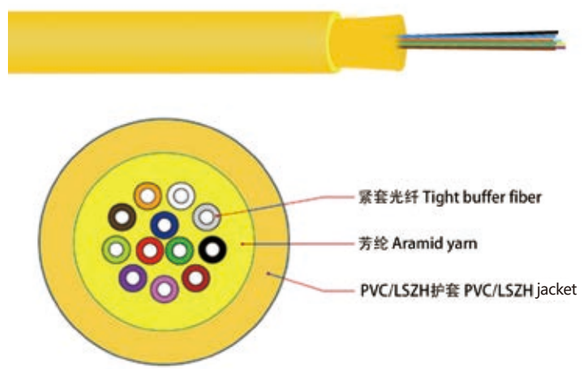
如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFJV 多芯室内束状光缆
GJFJV- Indoor Multi-Cores Cable

技术特点 Characteristics:

- 柔软，弯曲半径小,易剥纤
- 高强度芳纶加强，保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性

- It's soft with small bending ratio, and easily to be stripped
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:

- 室内管道线槽布线
- 通信布线中跳线尾纤制作
- 室内环境设备连接

- Indoor pipe wiring systems
- Patch cords and pigtails
- Connecting for indoor equipments

适用温度范围 Temperatures:

- PVC:A: – 20℃ ~ + 70℃ B: – 20℃ ~ + 90℃
- Hytrel: – 40℃ ~ + 120℃
- LSZH: – 20℃ ~ + 70℃
- Nylon: – 40℃ ~ + 120℃

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension		最小弯曲半径(mm) Min. bending radius		压扁力(N/100mm²) Crush Resistance
			短期 Long term	长期 Short term	动态 Static	静态 Dynamic	
4	4.8±0.2	19	270	90	20D	10D	1000
6	5.2±0.2	23	330	110	20D	10D	1000
8	6.2±0.2	29	480	160	20D	10D	1000
12	6.8±0.2	38	600	200	20D	10D	1000
16	7.4±0.4	48	660	220	20D	10D	1000
24	8.2±0.4	60	720	240	20D	10D	1000

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

外皮颜色备注 Color of the Jacket

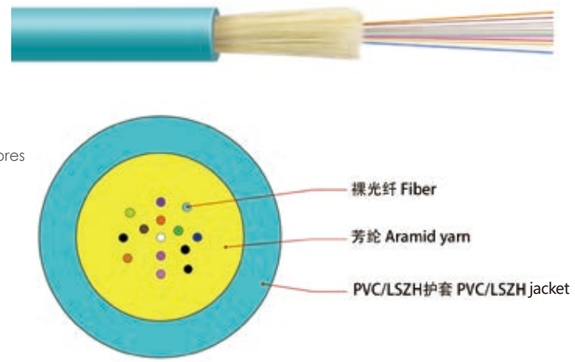
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFV 多芯迷你室内束状光缆
GJFV- Indoor Multi-Cores Mini Round Cable

技术特点 Characteristics:

- 多芯集成束管，使用维护方便
- 柔软，弯曲半径小，易剥纤
- 高强度芳纶加强，保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性
- It's easier to be operated and maintained, with one tube for multi-cores
- It's soft with small bending ratio, and easily to be stripped
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:

- 室内管道线槽布线
- MPO/MTP高密度布线
- 室内环境设备连接
- Indoor pipe wiring systems
- MPO/MTP high density wiring systems
- Connecting for indoor equipments

适用温度范围 Temperatures:

- PVC:A: – 20℃~ + 70℃ B: – 20℃~ + 90℃
- Hytrel: – 40℃~ + 120℃
- LSZH: – 20℃~ + 70℃
- Nylon: – 40℃~ + 120℃

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension		最小弯曲半径(mm) Min. bending radius		压扁力(N/100mm²) Crush Resistance
			短期 Long term	长期 Short term	动态 Static	静态 Dynamic	
4	3.0±0.2	8.0	270	90	20D	10D	500
6	3.0±0.2	8.0	330	110	20D	10D	500
8	3.0±0.2	8.0	480	160	20D	10D	500
12	3.0±0.2	8.0	600	200	20D	10D	500
16	3.2±0.2	10.0	660	220	20D	10D	500
24	3.5±0.2	15.0	720	240	20D	10D	500

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

外皮颜色备注 Color of the Jacket

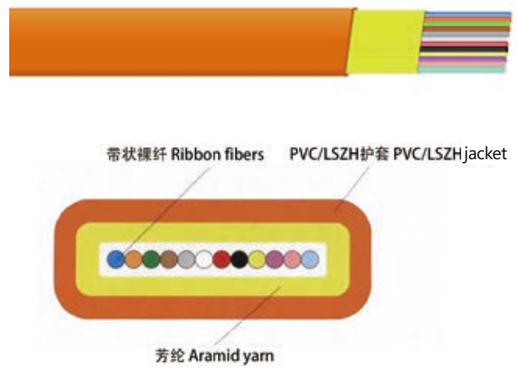
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFDBV 多芯迷你室内带状光缆
GJFDBV- Indoor Multi-Cores Mini Flat Cable

技术特点 Characteristics:

- 多芯集成，按色号顺序排列
- 施工方便，容易区分
- 高强度芳纶加强,保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性
- Multi-cores in one tube, and are lined with color numbers
- Lined fibers with different colors make it easy for installation
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:

- 室内管道线槽布线
- MPO/MTP高密度布线
- 室内环境设备连接
- Indoor pipe wiring systems
- MPO/MTP high density wiring systems
- Connecting for indoor equipments

适用温度范围 Temperatures:

- PVC:A: – 20℃~ + 70℃ B: – 20℃~ + 90℃
- Hytrel: – 40℃~ + 120℃
- LSZH: – 20℃~ + 70℃
- Nylon: – 40℃~ + 120℃

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension		最小弯曲半径(mm) Min. bending radius		压扁力(N/100mm²) Crush Resistance
			短期 Long term	长期 Short term	动态 Static	静态 Dynamic	
4	3.5*2.5	12	200	80	35H	25H	500
6	3.8*2.5	13	200	200	35H	25H	500
8	4.5*2.5	15	200	200	35H	25H	500
12	5.0*2.5	17	200	200	35H	25H	500

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

外皮颜色备注 Color of the Jacket

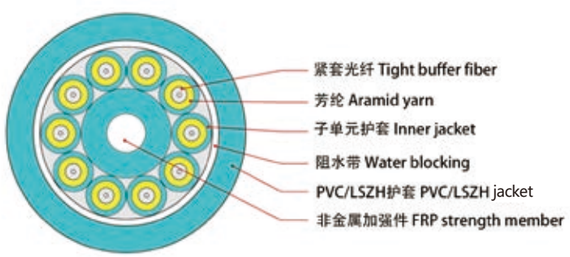
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFJV 多芯室内分支光缆I型(单芯独立子缆)
GJFJV- Indoor Multi-Cores Mini Round Cable I

技术特点 Characteristics:

- 单根子缆含芳纶加强,强度高
- 子缆为独立单元，维护方便，易于施工
- 良好的阻燃特性
- 高低温稳定特性
- Aramid yarn in each simplex cable offers high tensile strength
- With independent simplex cables, it's easier to install and maintain
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:

- 室内主干缆布线
- 楼宇，建筑物的垂直布线,LAN网
- 远距离室内布线，对拉伸力有一定要求的环境
- Indoor cablings
- Vertical cabling for buildings and Lan networks
- Wiring systems with long distances indoor

适用温度范围 Temperatures:

- PVC: A: – 20℃~ + 70℃ B: – 20℃~ + 90℃
- Hytrel: – 40℃~ + 120℃
- LSZH: – 20℃~ + 70℃
- Nylon: – 40℃~ + 120℃

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension 短期 Long term	拉伸力(N) Tension 长期 Short term	最小弯曲半径(mm) Min. bending radius 动态 Static	最小弯曲半径(mm) Min. bending radius 静态 Dynamic	压扁力(N/100mm²) Crush Resistance
4	7.5±0.5	51	660	200	20D	10D	1000
6	9.0±0.5	68	700	200	20D	10D	1000
8	10.5±0.5	88	800	250	20D	10D	1000
12	12.5±0.5	128	1200	400	20D	10D	1000
16	14.0±0.5	168	1200	400	20D	10D	1000
24	15.5±0.5	198	1200	400	20D	10D	1000
48	20.5±0.5	246	1800	600	20D	10D	1000

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

外皮颜色备注 Color of the Jacket

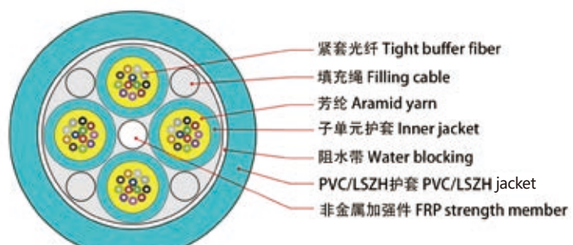
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFJV 多芯室内分支光缆II型(多芯束管子缆)
GJFJV- Indoor Multi-Cores Fan-out Cable(with Multi-cores Cables) II

技术特点 Characteristics:

- 多芯集成束管，使用维护方便
- 高强度芳纶加强，保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性
- It's easier to be installed and maintained, with one tube for multi-cores
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:

- 室内管道线槽布线,ODF配线箱集成布线
- 通信布线中跳线尾纤制作
- 室内环境设备连接
- Indoor pipe and ODF wiring systems
- Patch cords and pigtails
- Connecting for indoor equipments

适用温度范围 Temperatures:

- PVC:A: – 20℃~ + 70℃ B: – 20℃~ + 90℃
- Hytrel: – 40℃~ + 120℃
- LSZH: – 20℃~ + 70℃
- Nylon: – 40℃~ + 120℃

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	束管子缆数 QTY of sub-units	子缆芯数 Fiber count of sub-units	光缆重量(g/M) Weight	拉伸力(N) Tension 短期 Long term	拉伸力(N) Tension 长期 Short term	允许弯曲半径(mm) Bending radius 动态 Dynamic	允许弯曲半径(mm) Bending radius 静态 Static	压扁力(N/100mm²) Crush resistance
24	13.8±0.5	4	6	130	1300	400	20D	10D	1000
48	18.0±0.5	4	12	210	1300	400	20D	10D	1000
72	21.0±0.8	6	12	300	1300	400	20D	10D	1000
96	25.5±0.8	8	12	450	1300	400	20D	10D	1000
144	28.2±0.8	12	12	650	1300	400	20D	10D	1000

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

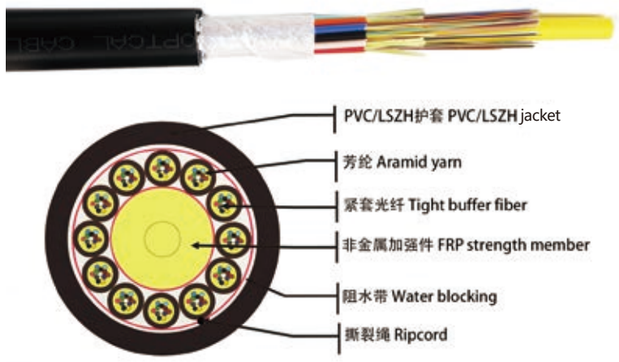
外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GJFJV 多芯室内分支光缆III型(多芯迷你束管子缆)
GJFJV- Indoor Multi-Cores Fan-out Cable(with Mini multi-colre Cables) III

技术特点 Characteristics:
- 多芯集成束管,使用维护方便
- 柔软，弯曲半径小,易剥纤
- 高强度芳纶加强,保证拉伸力
- 良好的阻燃特性
- 高低温稳定特性
- It's easier to be operated and maintained, with one tube for multi-cores
- It's soft with small bending ratio, and easily to be stripped
- High strength aramid yarn offers high tensile strength
- Flame- retardant
- It's available under high and low temperatures



应用范围 Applications:
- 室内管道线槽布线
- MPO/MTP高密度布线
- 室内环境设备连接
- Indoor pipe wiring systems
- MPO/MTP high density wiring systems
- Connecting for indoor equipments

适用温度范围 Temperatures:
- PVC:A: – 20℃ ~ + 70℃ B: – 20℃ ~ + 90℃
- Hytrel: – 40℃ ~ + 120℃
- LSZH: – 20℃ ~ + 70℃
- Nylon: – 40℃ ~ + 120℃

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	拉伸力(N) Tension 短期 Long term	拉伸力(N) Tension 长期 Short term	最小弯曲半径(mm) Min. bending radius 动态 Static	最小弯曲半径(mm) Min. bending radius 静态 Dynamic	压扁力(N/100mm²) Crush Resistance
12	3.0±0.2	7.8	150	80	20D	10D	1000
24	4.2*7.6	31	300	160	20D	10D	1000
48	9.0±0.5	79	600	200	20D	10D	1000
72	11.2±0.5	126	1000	300	20D	10D	1000
96	13.5±0.5	178	1000	300	20D	10D	1000
144	13.5±0.5	285	1000	300	20D	10D	1000
288	21.8±0.8	350	1000	300	20D	10D	1000

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

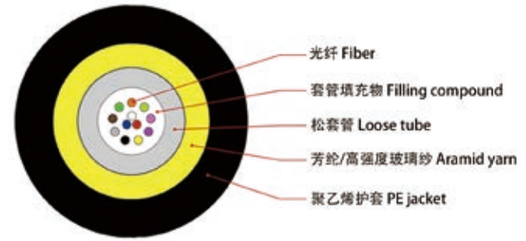
外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

GET室内外两用布线光缆
GET Indoor& Outdoor Cable

技术特点 Characteristics:
- 缆径小，重量轻，较长的交货长度;
- 管内填充特种油膏，保护光纤;
- 高强度芳纶加强,保证拉伸力，具有很好的机械性能;
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异;
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化。
- Small diameter and light weight
- Special gel in the tube offers critical protection for the fibers
- High strength aramid yarn makes high tensile strength and mechanical performance
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:
- 室外架空，管道敷设
- 传输设备，数据处理设备连接
- 室内竖井，楼宇，管道，地埋布线
- Aerial/ conduit
- Connecting communication equipments
- Indoor shaft, buildings, pipe, buried

产品标准 Standard:
- GET符合YD/T 769–2010标准
- YD/T 769-2010

订货信息 Ordering Information:
1、芯数2–12芯 Fiber count: 2~12cores
2、具体纤芯型号 Fiber type

示例 GET 12芯 SM/G652D
For example: GET 12cores SM/ G652D

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Tension 短期 Long term	允许拉力(N) Tension 长期 Short term	允许拉力(N) Tension 短期 Long term	允许拉力(N) Tension 长期 Short term	弯曲半径(mm) Bending radius 静态 Dynamic	弯曲半径(mm) Bending radius 动态 Static
2–12	6.5	60	400	1000	300	1000	10D	15D
2–12	9.5	90	600	1500	300	1500	10D	15D

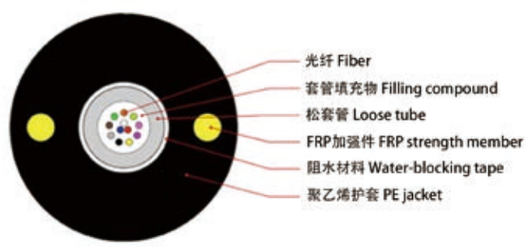
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

中心束管式非金属非铠装光缆（GYFTW）
Central Loose Tube Non-metallic& Non-armored Cable(GYFTW)

技术特点 Characteristics:

- 两根平行FRP加强件，保证足够的抗拉强度
- 管内填充特种油膏，保护光纤
- 体积小，重量轻，容易敷设
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化。
- The two parallel FRP strength members provides enough tensile strength
- Special gel in the tube offers critical protection for the fibers Small diameter and light weight
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外架空，管道敷设
- 传输设备，数据处理设备连接
- 竖井，楼宇，管道布线
- Aerial/ conduit
- Connecting communication equipments
- Indoor shaft, buildings, pipe, buried

订货信息 Ordering Information:

1、芯数2–12芯 Fiber count: 2~12cores

2、具体纤芯型号 Fiber type

示例 GYFTW 8芯 SM/G652D

For example: GYFTW 8cores SM/ G652D

产品标准 Standard:

- GYFTW符合YD/T 769–2010标准
- YD/T 769-2010

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Tension		允许拉力(N) Tension		弯曲半径（mm） Bending radius	
			短期 Long term	长期 Short term	短期 Long term	长期 Short term	静态 Dynamic	动态 Static
2–8	9.5	90	600	1500	300	1000	10D	15D
10–12	10.2	100	1000	3000	1000	3000	10D	15D

外皮颜色备注 Color of the Jacket

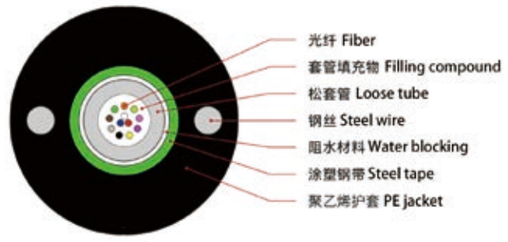
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	订制色 Customized	订制色 Customized	订制色 Customized

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

中心束管式轻铠装光缆（GYXTW）
Central Loose Tube Armored Cable(GYXTW)

技术特点 Characteristics:

- 两根平行FRP加强件，保证足够的抗拉强度
- 管内填充特种油膏，保护光纤
- 体积小，重量轻，容易敷设
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化
- The two parallel FRP strength members provides enough tensile strength
- Special gel in the tube offers critical protection for the fibers
- Small diameter and light weight
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外架空，管道敷设
- 传输设备，数据处理设备连接
- 竖井，楼宇，管道布线
- Aerial/ conduit
- Connecting communication equipments
- Indoor shaft, buildings, pipe, buried

订货信息 Ordering Information:

1、芯数2–48芯 Fiber count: 2~48cores

2、具体纤芯型号 Fiber type

示例 GYXTW 48芯 SM/G652D

For example: GYXTW 48cores SM/ G652D

产品标准 Standard:

- GYFTW符合YD/T 769–2010标准
- YD/T 769-2010

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Tension		允许拉力(N) Tension		弯曲半径（mm） Bending radius	
			短期 Long term	长期 Short term	短期 Long term	长期 Short term	静态 Dynamic	动态 Static
2–8	9.5	100	600	1500	300	1000	15D	30D
10–12	10.2	110	1000	3000	1000	3000	15D	30D
14–24	10.2	120	1000	3000	1000	3000	15D	30D
26–36	14.0	190	1000	3000	1000	3000	15D	30D
38–48	15.0	220	1000	3000	1000	3000	15D	30D

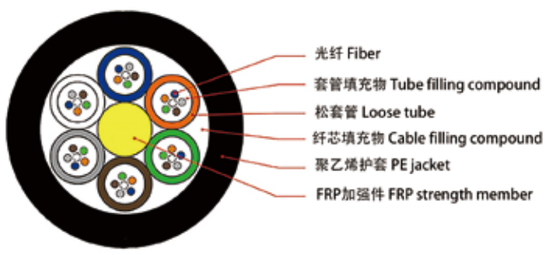
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

层绞式非金属加强芯非铠装光缆（GYFTY）
Stranded Non-metallic& Non-armored Cable(GYFTY)

技术特点 Characteristics:

- 非金属阻水层+玻璃纱芳纶加强，提供足够拉力；
- 管内填充特种油膏，保护光纤；
- 单根非金属FRP中心加强芯；
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异；
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化；
- Non-metallic water blocking+ glass yarn provides high tensile strength.
- Special gel in the tube offers critical protection for the fibers.
- With FRP central strength member.
- PE jacket itself prevents UV, and UV material can be added to perform much better.
- It's available under high and low temperatures and anti-aging.



应用范围 Applications:

- 室外架空，管道敷设
- 传输设备，数据处理设备连接
- 数据中心大芯数布线
- Aerial/ conduit.
- Connecting communication equipments.
- Multi-cores wiring systems in data centers.

订货信息 Ordering Information：

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

示例 GYFTY 96芯 SM/G652D

For example: GYFTY 96cores SM/ G652D

产品标准 Standard：

- GYFTY符合YD/T 901–2009标准
- YD/T 901-2009

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	套管数 QTY of tube	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–36	10.2	90	6	600	1500	300	1000	15D	30D
38–72	11.0	110	6	600	1500	300	1000	15D	30D
74–96	12.0	135	8	600	1500	300	1000	15D	30D
98–120	14.0	170	10	600	1500	300	1000	15D	30D
122–144	16.0	200	12	600	1500	300	1000	15D	30D

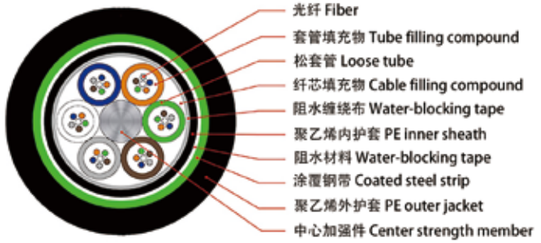
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

层绞式双套铠装光缆（GYTY53）
Stranded Armored Cable(GYTY53)

技术特点 Characteristics:

- 扎纹钢带+涂塑铝带双层铠装护套，提供强力的拉伸力和压扁力
- 管内填充特种油膏，保护光纤
- 单根金属钢丝中心加强芯
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化
- Double armored jackets of steel+ aluminum offer high tension and crush resistance
- Special gel in the tube offers critical protection for the fibers
- With steel central strength member
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外架空，管道敷设
- 传输设备，数据处理设备连接
- 数据中心大芯数布线
- Conduit/ buried
- Connecting communication equipments
- Multi-cores wiring systems in data centers

订货信息 Ordering Information:

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

示例 GYTY53 144芯 SM/G652D

For example: GYTY53 144cores SM/ G652D

产品标准 Standard:

- GYTY53符合YD/T 901–2009和IEC 60794–1标准
- YD/T 901-2009& IEC 60794-1

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	套管数 QTY of tube	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–60	12.5	160	6	1000	3000	1000	3000	15D	30D
62–72	13.5	200	6	1000	3000	1000	3000	15D	30D
74–96	15.0	240	8	1000	3000	1000	3000	15D	30D
98–120	16.0	280	10	1000	3000	1000	3000	15D	30D
122–144	18.0	300	12	1000	3000	1000	3000	15D	30D

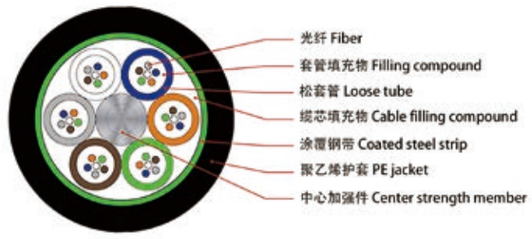
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

层绞式钢带纵包S护套铠装光缆（GYTS）
Stranded Steel Tape Cable(GYTS)

技术特点 Characteristics:

- 扎纹钢带铠装护套，提供强力的拉伸力和压扁力
- 管内填充特种油膏，保护光纤
- 单根金属钢丝中心加强芯
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化
- Steel jacket offers high tension and crush resistance
- Special gel in the tube offers critical protection for the fibers
- With steel central strength member
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外管道，地埋敷设
- 传输设备，数据处理设备连接
- 数据中心大芯数布线
- Conduit/ buried
- Connecting communication equipments
- Multi-cores wiring systems in data centers

订货信息 Ordering Information：

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

示例 GYTS 144芯 SM/G652D

For example: GYTS 144cores SM/ G652D

产品标准 Standard：

- GYTS符合YD/T 901–2009和IEC 60794–1标准
- YD/T 901-2009& IEC 60794-1

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	套管数 QTY of tube	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–60	9.5	100	6	600	1500	300	1000	15D	30D
62–72	10.5	110	6	600	1500	300	1000	15D	30D
74–96	12.5	155	8	600	1500	300	1000	15D	30D
98–120	14.5	165	10	600	1500	300	1000	15D	30D
122–144	16.5	230	12	600	1500	300	1000	15D	30D

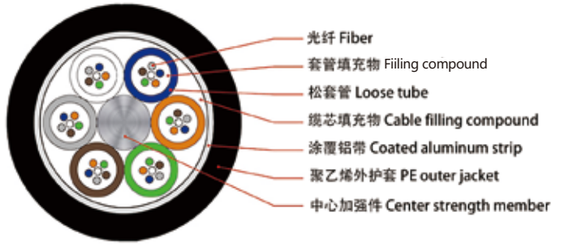
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

层绞式铝带纵包S护套铠装光缆（GYTA）
Stranded Aluminum Tape Cable(GYTA)

技术特点 Characteristics:

- 扎纹铝带铠装护套，提供强力的拉伸力和压扁力
- 管内填充特种油膏，保护光纤
- 单根金属钢丝中心加强芯
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化
- Aluminum jacket offers high tension and crush resistance
- Special gel in the tube offers critical protection for the fibers
- With steel central strength member
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外架空，管道敷设
- 传输设备，数据处理设备连接
- 数据中心大芯数布线
- Conduit/ buried
- Connecting communication equipments
- Multi-cores wiring systems in data centers

订货信息 Ordering Information:

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

示例 GYTA 144芯 SM/G652D

For example: GYTA 144cores SM/ G652D

产品标准 Standard:

- GYTA符合YD/T 901–2009和IEC 60794–1标准
- YD/T 901-2009& IEC 60794-1

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	套管数 QTY of tube	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–60	9.5	95	6	600	1500	300	1000	15D	30D
62–72	10.5	100	6	600	1500	300	1000	15D	30D
74–96	12.5	140	8	600	1500	300	1000	15D	30D
98–120	14.5	150	10	600	1500	300	1000	15D	30D
122–144	16.5	210	12	600	1500	300	1000	15D	30D

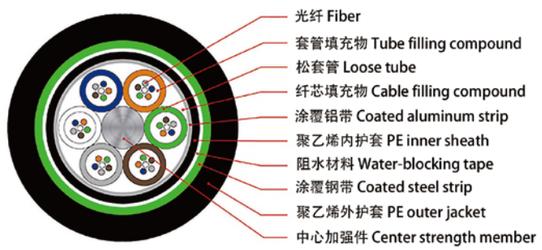
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

层绞式钢带纵包双护套铠装光缆（GYTS/A–53）
Stranded Double Jackets Armored Cable(GYTS/A-53A)

技术特点 Characteristics:

- 扎纹钢带+涂塑铝带双层铠装护套，提供强力的拉伸力和压扁力
- 管内填充特种油膏，保护光纤
- 单根金属钢丝中心加强芯
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化
- Double armored jackets of steel+ aluminum offer high tension and crush resistance
- Special gel in the tube offers critical protection for the fibers
- With steel central strength member
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外管道，地埋敷设
- 传输设备，数据处理设备连接
- 数据中心大芯数布线
- Conduit/ buried
- Connecting communication equipments
- Multi-cores wiring systems in data centers

订货信息 Ordering Information：

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

示例 GYTS/A 53 144芯 SM/G652D

For example: GYTS/A 53 144cores SM/ G652D

产品标准 Standard：

- GYTS/A53符合YD/T 901–2009和IEC 60794–1标准
- YD/T 901-2009& IEC 60794-1

技术参数 Specifications

芯数 Fiber count	外径(mm) Outer diameter	光缆重量(g/M) Weight	套管数 QTY of tube	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–60	12.5	160	6	1000	3000	1000	3000	15D	30D
62–72	13.5	200	6	1000	3000	1000	3000	15D	30D
74–96	15.0	240	8	1000	3000	1000	3000	15D	30D
98–120	16.0	280	10	1000	3000	1000	3000	15D	30D
122–144	18.0	300	12	1000	3000	1000	3000	15D	30D

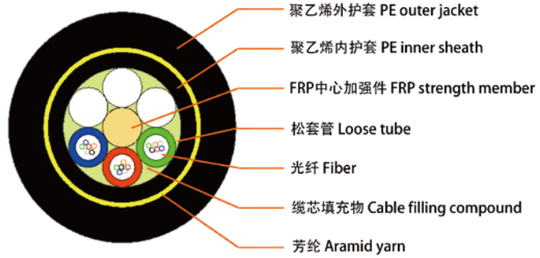
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

全介质自承式光缆（ADSS）
All Dielectric Self-supporting Aerial Cable(ADSS)

技术特点 Characteristics:

- 全介质非金属加强材料
- 管内填充特种油膏，保护光纤
- FRP中心加强芯,进口杜邦芳纶填充
- 耐电痕（AT）外护套，耐电痕性能优越
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化。
- 重量轻、缆径小，减少了冰凌、风力影响和对塔架、支撑物的负荷。
- All dielectric non-material strength member
- Special gel in the tube offers critical protection for the fibers
- FRP central strength member& filling compound of aramid yarn from Dupont
- Excellent AT performance
- It's available under high and low temperatures and anti-aging.
- Its light weight& small diameter reduce loading on towers from ice and wind



应用范围 Applications:

- 室外架空，远距离架线
- 适用高压电缆环境下的光纤布线
- 环境恶劣的室外架空
- Aerial/ long distance wiring systems
- Wiring systems in high voltage
- Aerial installation in harsh environments

订货信息 Ordering Information：

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

3、跨距 Span

示例 ADSS 144芯 SM/G652D 250/370M跨距

For example: ADSS 144cores SM/ G652D with span of 250/370m

产品标准 Standard：

- ADSS符合IEEE P 1222 技术，同时符合 IEC 60794–1标准
- IEEE P 1222& IEC 60794-1

技术参数 Specifications

外径(mm) Outer diameter	PE重量（KG/KM） PE weight	AT重量（KG/KM） AT weight	允许最大工作张力KN Max. working tension	断裂强度KN Break strength	热膨胀系数 Heat expansion coefficient	弹性模量NK/mm² Modulus of elasticity
12.5	125	136	4	10	1.8	7.6
13.0	132	142	6	15	1.5	8.3
13.6	145	156	10	24	1.2	10.8
14.5	164	177	15	36	0.9	13.6
15.5	190	204	26	60	0.1	19.1
16.3	211	226	34	85	0.1	20.1
17.2	236	253	45	108	–0.5	25.1

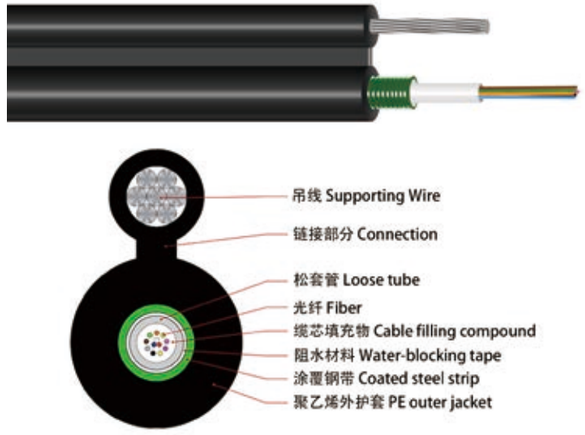
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

中心束管8字型光缆（GYXTC8S）
Figure 8 Central Loose Tube Cable(GYXTC8S)

技术特点 Characteristics:

- 独立钢绞吊线，缆截面呈8字形，自承式结构，保证光缆具有足够的拉力。
- 管内填充特种油膏，保护光纤
- 体积小，重量轻，容易敷设
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化。
- Independent stranded steel wire structure of figure 8self-supporting, provides high tension for the cable
- Special gel in the tube offers critical protection for the fibers
- Small diameter and light weight make it easy to be installed
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外架空
- FTTX光纤入户，局间架线
- 竖井，楼宇布线
- Aerial
- FTTH
- Wiring systems in shafts and buildings

订货信息 Ordering Information:

1、芯数2–12芯 Fiber count: 2~12cores

2、具体纤芯型号 Fiber type

示例GYXTC8S 8芯 SM/G652D

For example: GYXTC8S 8cores SM/ G652D

产品标准 Standard:

- GYXTC8S符合YD/T1155–2011和IEC60794–1标准
- YD/T1155-2011 & IEC60794-1

技术参数 Specifications

芯数 Fiber count	吊线规格(mm) Suspension wire diameter	外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–8	Φ1.0*7 钢绞线 steel stranded wire	5.5*10.0mm D*H	48	400	1000	300	1000	10H	20H

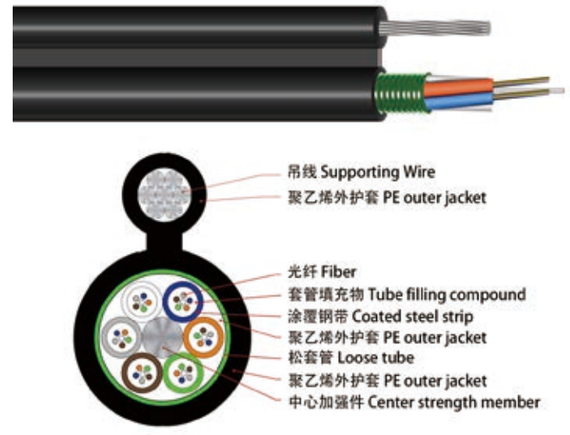
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

层绞式8字型光缆（GYTC8S）
Figure 8 Self- supponting cable(GYTC8S)

技术特点 Characteristics:

- 独立钢绞吊线，缆截面呈8字形，自承式结构，保证光缆具有足够的拉力。
- 管内填充特种油膏，保护光纤
- 体积小，重量轻，容易敷设
- PE外皮具有很好的防紫外线辐射性能，可以添加UV防晒材料，抗晒性能更优异
- 材料具有高低温稳定特性，耐高低温循环温差变化，使用寿命更长，不易老化。
- Independent stranded steel wire+ structure of figure 8+ self-supporting, provides high tension for the cable
- Special gel in the tube offers critical protection for the fibers
- Small diameter and light weight make it easy to be installed
- PE jacket itself prevents UV, and UV material can be added to perform much better
- It's available under high and low temperatures and anti-aging



应用范围 Applications:

- 室外架空
- FTTX光纤入户，局间架线
- 竖井，楼宇布线
- Aerial
- FTTH
- Wiring systems in shafts and buildings

订货信息 Ordering Information:

1、芯数2–72芯 Fiber count: 2~72cores

2、具体纤芯型号 Fiber type

示例GYTC8S 72芯 SM/G652D

For example: GYTC8S 72cores SM/ G652D

产品标准 Standard:

- GYXTC8S符合YD/T1155–2011和IEC60794–1标准
- YD/T1155-2011 & IEC60794-1

技术参数 Specifications

芯数 Fiber count	吊线规格(mm) Suspension wire diameter	外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
12–42	Φ1.0*7钢绞线	7.0*14.5mm D*H	180	1000	3000	300	1000	10H	20H
48–72	Φ1.0*7钢绞线	7.0*15.5mm D*H	215	1000	3000	300	1000	10H	20H

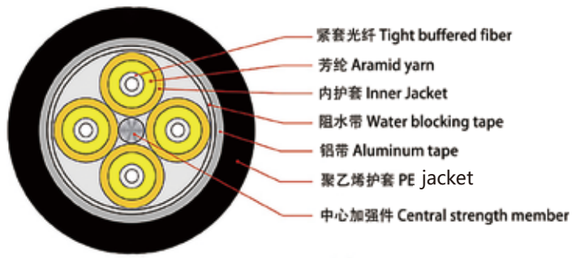
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

防水尾缆（GYJTA）
Waterproof Cable(GYJTA)

技术特点 Characteristics:

- 有很好的机械性能和温度特性
- 良好的抗压性和柔软性
- 能抵御野外各种恶劣的环境,寿命长，外套韧性好，抗拉，接地良
- 缆芯紧密绕包阻水带
- 纵包涂塑铝带防潮层
- 良好的阻水 材料防止光缆纵向渗水
- Good mechanical& temperature performance
- Good performance in crush and flexibility
- It performs well in harsh environments, with long life time and tough outer jacket
- Water blocking tape holds the simplex cables firmly
- The aluminum tape is moistureproof
- Water blocking tape prevents cable from water comes vertically



应用范围 Applications:

- 室外布线
- FTTX光纤入户，局间架线
- 竖井，楼宇布线
- Aerial
- FTTH
- Wiring systems in shafts and buildings

订货信息 Ordering Information：

1、芯数12–144芯 Fiber count: 12~144cores

2、具体纤芯型号 Fiber type

示例GYJTA 2芯 SM/G652D

For example: GYJTA 2cores SM/ G652D

产品标准 Standard：

- GYJTA满足YD/T901–2009和 IEC60794–1标准
- YD/T901-2009 & IEC60794-1

技术参数 Specifications

芯数 Fiber count	子缆外径(mm) Outer diameter of sub-units	主缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–4	2.6	9.8	80	1000	2000	300	1000	15D	30D
6–8	2.4	11.8	100	1000	2000	300	1000	15D	30D
10–12	1.8	14.8	150	1000	2000	300	1000	15D	30D

裸纤12色色卡 12Colors of Bare Fibers

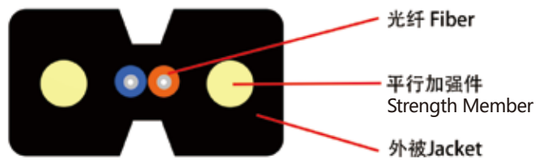
蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

03 Fiber Optic FTTH Drop Cable
FTTH皮线光缆

GJXH/GJXFH 室内入户蝶形皮线光缆
GJXH/GJXFH Indoor drop cable

技术特点 Characteristics:

- 蝶形横截面设计，LSZH或者PVC外护套保护。
- 两根平行FPR或镀锌钢丝加强件，保护光纤提供足够拉力和抗压力。
- 耐弯曲光纤，提供更大的带宽，增强网络传输特性。
- 光缆易剥离，重量轻，体积小，独特的凹槽设计，方便接续安装和维护。
- Bow tie type cross-section design, LSZH or PVC jacket protection.
- Two parallel FPR or galvanized steel wire reinforcement to protect the fiber and provide adequate tension and pressure.
- Rolex flex fiber, to provide greater bandwidth and enhance network transmission characteristics.
- Easily peeled off, light weight, small size, unique groove design, easy to follow the installation and maintenance.



应用范围 Applications:

- 室内局间布线;
- FTTH光纤入户，用户终端;
- 竖井，楼宇布线;
- Room indoor wiring
- FTTH optical home.User terminal
- Wiring systems in shafts and buildings

订货信息 Ordering Information：

1、芯数2–12芯 Fiber count: 2~12cores

2、具体纤芯型号 Fiber type in details

示例GJXFH 2cores SM/G657A1

For example: GJXFH 2cores SM/ G657A1

产品标准 Standard：

- 符合ICEA–596，GR–409,YD/T1997–2009标准
- ICEA-596，GR-409,YD/T1997-2009

技术参数 Specifications

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
1–4	Φ0.45mm	3.0*2.0mm	8	50	100	300	1000	15H	30H
6	Φ0.45mm	3.5*2.0mm	9	50	100	300	1000	15H	30H
8	Φ0.45mm	4.0*2.0mm	10	50	100	300	1000	15H	30H
12	Φ0.45mm	5.0*2.0mm	11	50	100	300	1000	15H	30H

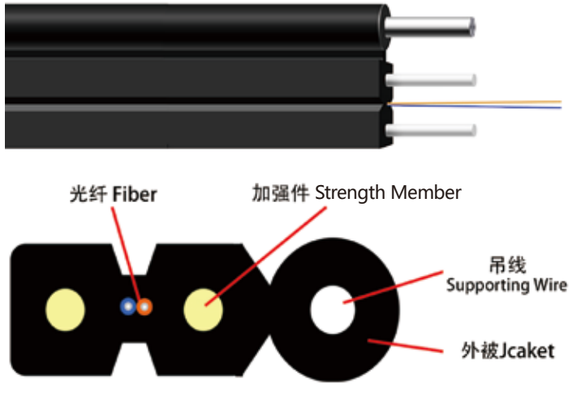
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

GJYXCH/GJYXFCH 室外自承式入户蝶形皮线光缆
GJYXCH/GJYXFCH Outdoor self-supporting drop cable

技术特点 Characteristics:

- 蝶形横截面设计，LSZH或者PVC外护套保护。
- 两根平行FPR或镀锌钢丝加强件，保护光纤提供足够拉力和抗压力。
- 耐弯曲光纤，提供更大的带宽，增强网络传输特性。
- 光缆易剥离，重量轻，体积小，独特的凹槽设计，方便接续安装和维护。
- 单根钢丝附加吊线，增强钢丝抗拉性能。
- Bow tie type cross-section design, LSZH or PVC jacket protection.
- Two parallel FPR or galvanized steel wire reinforcement to protect the fiber and provide adequate tension and pressure.
- Rolex flex fiber, to provide greater bandwidth and enhance network transmission characteristics.
- Easily peeled off, light weight, small size, unique groove design, easy to follow the installation and maintenance.
- Single wire with suspension wire to enhance the tensile properties of steel wire.



应用范围 Applications:

- 室外局间架空。
- FTTH光纤入户，用户终端。
- 竖井，楼宇布线。
- FTTH outdoor wiring
- FTTH optical home, user terminal.
- Shaft, building wiring

订货信息 Ordering Information:

1、芯数2–12芯 Fiber count: 2~12 cores

2、具体纤芯型号 Fiber type

示例GJYXFCH 4芯 SM/G657A2
For example: GJYXFCH 4cores SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T1997–2009标准
- ICEA-596, GR-409, YD / T1997-2009

技术参数 Specifications

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
1–4	Φ0.45mm	5.0*2.0mm	20	100	200	1000	2000	15H	30H
6	Φ0.45mm	5.5*2.0mm	21	100	200	1000	2000	15H	30H
8	Φ0.45mm	6.0*2.0mm	23	100	200	1000	2000	15H	30H
12	Φ0.45mm	7.0*2.0mm	25	100	200	1000	2000	15H	30H

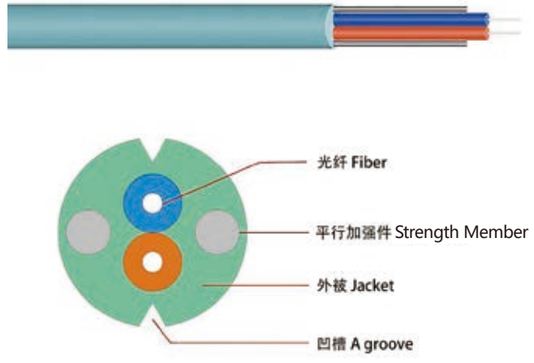
裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水蓝 Aqua

GJXH/GJXFH 室内管道入户圆形皮线光缆
GJXH/GJXFH Indoor duct round drop cable

技术特点 Characteristics:

- LSZH或者PVC外护套保护。
- 两根平行FPR或镀锌钢丝加强件，保护光纤提供足够拉力和抗压力。
- 耐弯曲光纤，提供更大的带宽，增强网络传输特性。光缆易剥离，重量轻，体积小，独特的凹槽设计，方便接续安装和维护。
- 圆形截面设计，方便走线槽，管道。
- LSZH or PVC jacket protection.
- Two parallel FPR or galvanized steel wire reinforcement to protect the fiber and provide adequate tension and pressure.
- Rolex flex fiber, to provide greater bandwidth and enhance network transmission characteristics.Easily peeled off, light weight, small size, unique groove design, easy to follow the installation and maintenance.
- Round type design can be easy for the pipe installation.



应用范围 Applications:

- 室内局间布线。
- FTTH光纤入户，用户终端。
- 管道布线。
- Room indoor wiring.
- FTTH optical home, user terminal.
- Shaft, building wiring.

订货信息 Ordering Information:

1、芯数2–12芯 Fiber count: 2~12 cores

2、具体纤芯型号 Fiber type

示例GJXH圆形2芯 SM/G657A2
For example: GJXH Round 2cores SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T1997–2009标准
- ICEA-596, GR-409, YD / T1997-2009

技术参数 Specifications

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2	Φ0.45mm	Φ3.0mm	16	500	1000	300	1000	10D	20D

外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

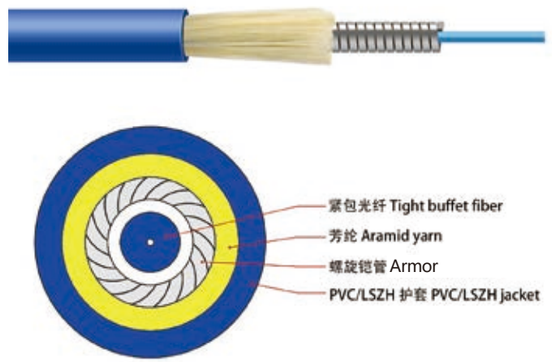
如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

04 Fiber Optic Armored Cable
螺旋铠装光缆

单管单芯螺旋铠装光缆（GJSFJV）
Simplex armored cable(GJSFJV)

技术特点 Characteristics:

- LSZH或者PVC外护套保护
- 不锈钢螺旋铠装钢管，配合进口杜邦芳纶填充，保护光纤提供足够拉力和抗压力
- 可增加不锈钢编织网，进一步提升光缆拉力的同时，增强防鼠咬的性能。
- 圆形截面设计，方便走线槽，管道。
- 体积小巧，柔软耐弯曲，易剥离，易施工操作。
- LSZH or PVC jacket.
- It is the construction stainless steel tube with Dupont aramid yarn provide the cable enough tensile strength and pressure strength.
- Add stainless steel weave mesh can further enhance cable tension, and enhance the performance of rat bite prevention.
- Circular section design, convenient line grooves, pipes
- Small volume ,good bending radius ,easy to stripping , convenient for operation.



应用范围 Applications:

- 室内外局间布线;
- FTTH光纤入户，用户终端;
- 管道，竖井，楼宇布线;
- Indoor and outdoor cabling system.
- FTTH and user termination .
- Duct，manhole and building wiring

订货信息 Ordering Information:

1、具体纤芯型号 Fiber type in details

示例GJSFJV单芯 SM/G657A2

For example: GJSFJV Simplex SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T2488–2013标准
- ICEA-596 GR-409 YD / T2488-2013

技术参数 Specifications:

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
1	杜邦芳纶Kevlar	Φ2.0mm	12	150	300	300	1000	10D	20D
1	杜邦芳纶kevlar	Φ3.0mm	16	200	500	300	1000	10D	20D
1	杜邦芳纶+不锈钢编织网 kevalr+ stainless steel weave mesh	Φ3.2mm	18	350	800	500	1000	10D	20D

外皮颜色备注 Color of the Jacket

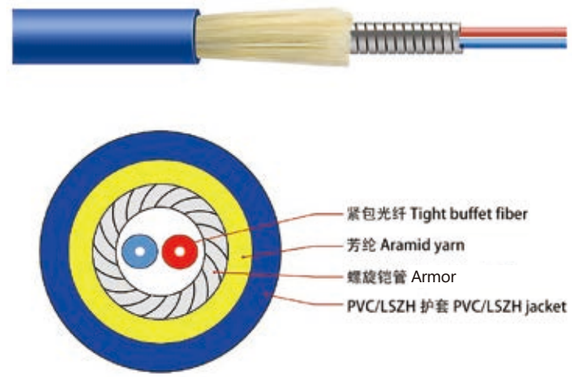
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

一管双芯螺旋铠装光缆（GJSFJV）
Duplex single Tube Armored cable(GJSFJV)

技术特点 Characteristics:

- LSZH或者PVC外护套保护
- 不锈钢螺旋铠装钢管，配合进口杜邦芳纶填充，保护光纤提供足够拉力和抗压力
- 可增加不锈钢编织网，进一步提升光缆拉力的同时，增强防鼠咬的性能。
- 圆形截面设计，方便走线槽，管道。
- 体积小巧，柔软耐弯曲，易剥离，易施工操作。
- LSZH or PVC jacket
- It is the construction stainless steel tube with Dupont aramid yarn provide the cable enough tensile strength and pressure strength.
- Add stainless steel weave mesh can further enhance cable tension, and enhance the performance of rat bite prevention.
- Circular section design, convenient line grooves, pipes
- Small volume ,good bending radius ,easy to stripping , convenient for operation.



应用范围 Applications:

- 室内外局间布线;
- FTTH光纤入户，用户终端;
- 管道，竖井，楼宇布线;
- Indoor and outdoor cabling system.
- FTTH and user termination .
- Duct，manhole and building wiring

订货信息 Ordering Information:

1、具体纤芯型号 Fiber type in details

示例GJSFJV一管双芯 SM/G657A2

For example: GJSFJV duplex SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T2488–2013标准
- ICEA-596 GR-409 YD / T2488-2013

技术参数 Specifications

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2	杜邦芳纶Kevlar	Φ2.0mm	13	150	300	300	1000	10D	20D
2	杜邦芳纶kevlar	Φ3.0mm	17	200	500	300	1000	10D	20D
2	杜邦芳纶+不锈钢编织网 kevalr+ stainless steel weave mesh	Φ3.2mm	19	350	800	500	2000	10D	20D

外皮颜色备注 Color of the Jacket

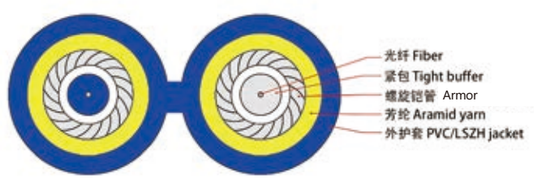
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

双管双芯铠装光缆（GJSFJBV）
Duplex Double Tube Armored Cable(GJSFJBV)

技术特点 Characteristics:

- LSZH或者PVC外护套保护
- 不锈钢螺旋铠装钢管，配合进口杜邦芳纶填充，保护光纤提供足够拉力和抗压力。
- 可增加不锈钢编织网，进一步提升光缆拉力的同时，增强防鼠咬的性能。
- 圆形截面设计，方便走线槽，管道。
- 体积小巧，柔软耐弯曲，易剥离，易施工操作。
- LSZH or PVC jacket
- It is the construction stainless steel tube with Dupont aramid yarn provide the cable enough tensile strength and pressure strength.
- Add stainless steel weave mesh can further enhance cable tension, and enhance the performance of rat bite prevention.
- Circular section design, convenient line grooves, pipes
- Small volume ,good bending radius ,easy to stripping , convenient for operation.



应用范围 Applications:

- 室内外局间布线;
- FTTH光纤入户，用户终端;
- 管道，竖井，楼宇布线;
- Indoor and outdoor cabling system.
- FTTH and user termination .
- Duct，manhole and building wiring

订货信息 Ordering Information:

1、具体纤芯型号 Fiber type in details

示例GJSFJBV双管双芯 SM/G657A2

For example: GJSFJBV duplex double tube SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T2488–2013标准
- ICEA-596 GR-409 YD / T2488-2013

技术参数 Specifications

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2	杜邦芳纶Kevlar	2.0*4.0mm	24	200	500	300	1000	10D	20D
2	杜邦芳纶kevlar	3.0*5.8mm	32	350	800	300	1000	10D	20D
2	杜邦芳纶+不锈钢编织网 kevlar+ stainless steel weave mesh	3.2*6.0mm	36	500	1000	500	2000	10D	20D

外皮颜色备注 Color of the Jacket

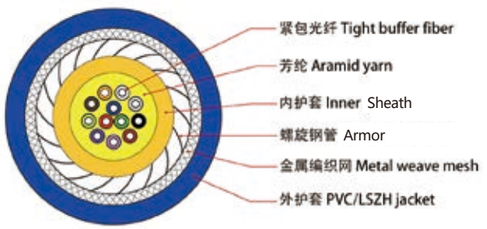
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

一管多芯束装螺旋铠装光缆（GJSFJV）
Multi-cores Single Tube Armored Cable(GJSFJV)

技术特点 Characteristics:

- LSZH或者PVC外护套保护。
- 不锈钢螺旋铠装钢管，配合进口杜邦芳纶填充，保护光纤提供足够拉力和抗压力。
- 可增加不锈钢编织网，进一步提升光缆拉力的同时，增强防鼠咬的性能。
- 圆形截面设计，方便走线槽，管道。
- 体积小巧，柔软耐弯曲，易剥离，易施工操作。
- LSZH or PVC jacket
- It is the construction stainless steel tube with Dupont aramid yarn provide the cable enough tensile strength and pressure strength .
- Add stainless steel weave mesh can further enhance cable tension, and enhance the performance of rat bite prevention.
- Circular section design, convenient line grooves, pipes
- Small volume ,good bending radius ,easy to stripping , convenient for operation.



应用范围 Applications:

- 室内外局间布线;
- FTTH光纤入户，用户终端;
- 管道，竖井，楼宇布线;
- Indoor and outdoor cabling system.
- FTTH and user termination .
- Duct，manhole and building wiring

订货信息 Ordering Information:

1、芯数 fiber count

2、具体纤芯型号 Fiber type in details

示例：一管多芯束装螺旋铠装光缆GJSFJV 12芯 SM/G657A2

For example: GJSFJV 12core SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T2488–2013标准
- ICEA-596 GR-409 YD / T2488-2013

技术参数 Specifications

芯数 Fiber count	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–4	杜邦芳纶 kevlar	Φ5.0mm	42	350	800	500	2000	10D	20D
6	杜邦芳纶 kevlar	Φ5.5mm	58	350	800	500	2000	10D	20D
8	杜邦芳纶kevlar	Φ6.0mm	68	350	800	500	2000	10D	20D
12	杜邦芳纶 kevlar	Φ6.2mm	75	350	800	500	2000	10D	20D

外皮颜色备注 Color of the Jacket

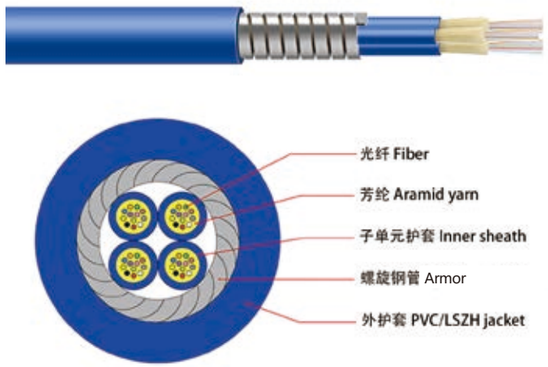
黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

一管多芯分支螺旋铠装光缆（GJSFJV）–主缆带铠
Multi-cores Breakout Armored Cable (GJSFJV)

技术特点 Characteristics:

- LSZH或者PVC外护套保护。
- 不锈钢螺旋铠装钢管，配合进口杜邦芳纶填充，保护光纤提供足够拉力和抗压力。
- 可增加不锈钢编织网，进一步提升光缆拉力的同时，增强防鼠咬的性能。
- 圆形截面设计，方便走线槽，管道。
- 体积小巧，柔软耐弯曲，易剥离，易施工操作。
- LSZH or PVC jacket
- It is the construction stainless steel tube with imported aramid yarn provide the cable enough tensile strength and pressure strength .
- Add stainless steel weave mesh can further enhance cable tension, and enhance the performance of rat bite prevention.
- Circular section design, convenient line grooves, pipes
- Small volume ,good bending radius ,easy to stripping , convenient for operation.



应用范围 Applications:

- 室内外局间布线;
- FTTH光纤入户，用户终端;
- 管道，竖井，楼宇布线;
- Indoor and outdoor cabling system.
- FTTH and user termination .
- Duct，manhole and building wiring

订货信息 Ordering Information:

1、芯数 fiber count
2、具体纤芯型号 Fiber type in details

示例：一管多芯分支螺旋铠装光缆GJSFJV 48芯 SM/G657A2
For example: GJSFJV 48core SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T2488–2013标准
- ICEA-596 GR-409 YD / T2488-2013

技术参数 Specifications

芯数 Fiber count	子缆规格(mm) Inner cable diameter	子缆数 Inner fiber count	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
					长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–4	Φ2.0mm单芯 single fiber	2–4	Φ7.0mm	65	500	1200	500	2000	10D	20D
4–12	Φ3.0mm迷你多芯 mini multi-core	1	Φ5.0mm	45	350	800	500	2000	10D	20D
12–24	Φ3.0mm迷你多芯 mini multi-core	4	Φ9.5mm	100	500	1200	500	2000	10D	20D
24–48	Φ3.0mm迷你多芯 mini multi-core	4	Φ9.5mm	110	500	1200	500	2000	10D	20D

外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

一管多芯分支螺旋铠装光缆（GJSFJV）–子缆带铠
Multi-cores Breakout Armored cable (GJSFJV) with Armor on Sub-Units

技术特点 Characteristics:

- LSZH或者PVC外护套保护。
- 不锈钢螺旋铠装钢管，配合进口杜邦芳纶填充，保护光纤提供足够拉力和抗压力。
- 可增加不锈钢编织网，进一步提升光缆拉力的同时，增强防鼠咬的性能。
- 圆形截面设计，方便走线槽，管道。
- 体积小巧，柔软耐弯曲，易剥离，易施工操作。
- LSZH or PVC jacket
- It is the construction stainless steel tube with imported aramid yarn provide the cable enough tensile strength and pressure strength .
- Add stainless steel weave mesh can further enhance cable tension, and enhance the performance of rat bite prevention.
- Circular section design, convenient line grooves, pipes
- Small volume ,good bending radius ,easy to stripping , convenient for operation.

应用范围 Applications:

- 室内外局间布线;
- FTTH光纤入户，用户终端;
- 管道，竖井，楼宇布线;
- Indoor and outdoor cabling system.
- FTTH and user termination .
- Duct，manhole and building wiring

订货信息 Ordering Information:

1、芯数 fiber count
2、具体纤芯型号 Fiber type in details

示例：一管多芯分支螺旋铠装光缆GJSFJV 48芯 SM/G657A2
For example: GJSFJV 48core SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T2488–2013标准
- ICEA-596 GR-409 YD / T2488-2013

技术参数 Specifications

芯数 Fiber count	子缆规格(mm) Inner cable diameter	子缆数 Inner fiber count	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
					长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–4	Φ2.0mm单芯 single fiber	2–4	Φ7.0mm	65	500	1200	500	2000	10D	20D
12–24	Φ3.0mm迷你多芯 mini multi-core	1	Φ5.0mm	45	350	800	500	2000	10D	20D
12–24	Φ3.0mm迷你多芯 mini multi-core	4	Φ10.0mm	100	500	1200	500	2000	10D	20D
24–48	Φ3.0mm迷你多芯 mini multi-core	4	Φ10.0mm	110	500	1200	500	2000	10D	20D
48–72	Φ3.0mm迷你多芯 mini multi-core	6	Φ14.0mm	200	700	1500	500	2000	10D	20D
72–144	Φ3.0mm迷你多芯 mini multi-core	6	Φ14.0mm	220	700	1500	500	2000	10D	20D

外皮颜色备注 Color of the Jacket

黄色 Yellow	橙色 Orange	水蓝色 Aqua	紫色 Purple	白色 White	黑色 Black	蓝色 Blue
SM单模 SM	MM千兆多模OM1,OM2 MM(OM1/ OM2)	MM万兆多模OM3 OM3	MM万兆多模OM4 OM4	Customized 订制色	Customized 订制色	Customized 订制色

如有其他颜色需求可订制,欢迎咨询! Other colors are also available to be customized.

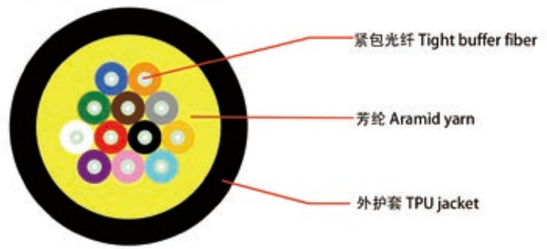
05 Fiber Optic Military Tactical Cable
军用野战光缆

非铠装束装GJFJU野战光缆
Non-armoured bundle GJFJU Tactical Cable

技术特点 Characteristics:

- 高强度高韧性聚氨酯TPU外护套，耐油耐酸耐化学腐蚀，进口杜邦芳纶加强，提升抗拉力。
- 柔韧性极强，有弹性，低温下还能保持柔软度。耐磨耐压，应力缓冲好。
- 圆形截面设计，方便走线槽，管道，体积小巧，柔软耐弯曲，易剥离，易施工操作，特别适用反复收放的场合。

- High strength and toughness polyurethane TPU jacket, oil and acid resistant chemical corrosion, DuPont Kevlar imports strengthened to enhance the anti-pull.
- Good flexibility, can maintain softness in low temperature. Wearable pressure and with good buffer.
- Circular cross-section design to facilitate the alignment groove, pipe, small size, soft and flexible, easy to peel, easy construction and operation, especially for repeated occasions.



应用范围 Applications:

- 适用各种快速收放，反复收放的快速布线，临时布线场合。
- 野外作业，舞台布线，现场直播。
- 军事通信快速布线，移动缆车通信抢修。

- Variety of rapid retractable, repeated retractable quick wiring, temporary wiring occasions.
- Field-work, stage wiring, live broadcast.
- Military communications, fast wiring, for portable cable repairing communications.

订货信息 Ordering Information:

1、芯数2–12芯 Cores:2-12cores

2、具体纤芯型号 Fiber type in details

示例非铠装束装GJFJU野战光缆 4芯 SM/G657A2

For example: Non-armoured bundle GJFJU 4cores SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T1258.4–2005,IEC60794等标准
- ICEA-596, GR-409, YD / T125814-2005 4-2005 IEG60794

技术参数 Specifications

芯数 Cores	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	拉力(N) Tension		弯曲半径(mm) Bending radius		压扁力(N/100mm²) Pressure	
			短期 Short	长期 Long	静态 Dynamic	动态 Static	长期 Long term	短期 Short term
4	4.8±0.2	21	1200	600	20D	10D	500	2000
6	5.2±0.2	26	1200	600	20D	10D	500	2000
8	6.2±0.2	35	1600	800	20D	10D	500	2000
12	6.8±0.2	43	1800	900	20D	10D	500	2000
16	7.4±0.4	55	2000	1000	20D	10D	500	2000
24	8.2±0.4	68	2500	1000	20D	10D	500	2000

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水兰 Aqua

非铠装分支GJFJU野战光缆
Non-armoured Distribution GJFJU Tactical Cable

技术特点 Characteristics:

- 高强度高韧性聚氨酯TPU外护套，耐油耐酸耐化学腐蚀，进口杜邦芳纶加强，提升抗拉力。
- 柔韧性极强，有弹性，低温下还能保持柔软度。耐磨耐压，应力缓冲好。
- 圆形截面设计，方便走线槽，管道，体积小巧，柔软耐弯曲，易剥离，易施工操作，特别适用反复收放的场合。

- High strength and toughness polyurethane TPU jacket, oil and acid resistant chemical corrosion, DuPont Kevlar imports strengthened to enhance the anti-pull.
- Good flexibility, can maintain softness in low temperature. Wearable pressure and with good buffer.
- Circular cross-section design to facilitate the alignment groove, pipe, small size, soft and flexible, easy to peel, easy construction and operation, especially for repeated occasions.

应用范围 Applications:

- 适用各种快速收放，反复收放的快速布线，临时布线场合。
- 野外作业，舞台布线，现场直播。
- 军事通信快速布线，移动缆车通信抢修。

- Variety of rapid retractable, repeated retractable quick wiring, temporary wiring occasions.
- Field-work, stage wiring, live broadcast.
- Military communications, fast wiring, for portable cable repairing communications.

订货信息 Ordering Information:

1、芯数2–12芯 Cores:2-12cores

2、具体纤芯型号 Fiber type in details

示例非铠装分支GJFJU野战光缆 4芯 SM/G657A2

For example: Non-armoured Distribution GJFJU 4cores SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T1258.4–2005,IEC60794等标准
- ICEA-596, GR-409, YD / T125814-2005 4-2005 IEG60794

技术参数 Specifications

芯数 Cores	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	拉力(N) Tension		弯曲半径(mm) Bending radius		压扁力(N/100mm²) Pressure	
			短期 Short	长期 Long	静态 Dynamic	动态 Static	长期 Long term	短期 Short term
4	7.5±0.5	51	1000	500	20D	10D	500	2000
6	9.0±0.5	68	1200	600	20D	10D	500	2000
8	10.5±0.5	88	1400	700	20D	10D	500	2000
12	12.5±0.5	128	1600	800	20D	10D	500	2000
16	14.0±0.5	168	2000	1000	20D	10D	500	2000
24	15.5±0.5	198	2000	1000	20D	10D	500	2000
48	20.5±0.5	246	2000	1000	20D	10D	500	2000

裸纤12色色卡 12Colors of Bare Fibers

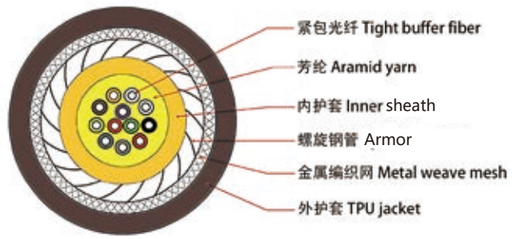
蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水兰 Aqua

铠装束装GJSJU野战光缆
Armoured bundle GJSJU Tactical Cable

技术特点 Characteristics:

- 高强度高韧性聚氨酯TPU外护套，耐油耐酸耐化学腐蚀，进口杜邦芳纶加强，提升抗拉力。
- 柔韧性极强，有弹性，低温下还能保持柔软度。耐磨耐压，应力缓冲好。
- SUS不锈钢螺旋凯管，在进一步提升光缆的抗拉，抗压以及防鼠咬性能的同时，保证光缆的柔软性。

- High strength and toughness polyurethane TPU jacket, oil and acid resistant chemical corrosion, DuPont Kevlar imports strengthened to enhance the anti-pull.
- Good flexibility, can maintain softness in low temperature. Wearable pressure and with good buffer.
- SUS stainless steel spiral tube, to further enhance the tensile strength of the cable, compression and anti-rat bite performance at the same time, it can ensure the softness of the cable.



应用范围 Applications:

- 适用各种快速收放，反复收放的快速布线，临时布线场合。
- 野外作业，舞台布线，现场直播。
- 军事通信快速布线，移动缆车通信抢修。

- Variety of rapid retractable, repeated retractable quick wiring, temporary wiring occasions.
- Field-work, stage wiring, live broadcast.
- Military communications, fast wiring, for portable cable repairing communications.

订货信息 Ordering Information:

1、芯数2–12芯 Cores:2-12cores

2、具体纤芯型号 Fiber type in details

示例铠装束装GJSJU野战光缆 4芯 SM/G657A2

EG. : Armoured Bundle GJSJU 4cores SM/G657A2

产品标准 Standard:

- 符合ICEA–596，GR–409,YD/T1258.4–2005,IEC60794等标准
- ICEA-596, GR-409, YD / T125814-2005 4-2005 IEG60794

技术参数 Specifications

芯数 Cores	平行加强件规格(mm) Parallel reinforcement specification	光缆外径(mm) Outer diameter	光缆重量(g/M) Weight	允许拉力(N) Max. Tension		允许最大压力(N) Max. Crush resistance		弯曲半径(mm) Bending radius	
				长期 Long term	短期 Short term	长期 Long term	短期 Short term	静态 Dynamic	动态 static
2–4	杜邦芳纶 Dupont aramid	Φ5.0mm	42	500	1000	500	2000	10D	20D
6	杜邦芳纶 Dupont aramid	Φ5.5mm	58	700	1500	500	2000	10D	20D
8	杜邦芳纶 Dupont aramid	Φ6.0mm	68	800	1600	500	2000	10D	20D
12	杜邦芳纶 Dupont aramid	Φ6.2mm	75	1000	2000	500	2000	10D	20D

裸纤12色色卡 12Colors of Bare Fibers

蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	水兰 Aqua

06 Telecommunication Optical Fiber
常规通信光纤

不同标准下常规通信单多模光纤命名参照表
Fiber named reference table of single and multimode fiber under different standards

光纤描述 fiber type	IEC 6079&GB/T 9771&GT/T 12357	ISO 11801	ITU/TG65X系列
62.5/125	A1b	OM1	N/A
50/125	A1a	OM2	G651.1
50/125	A1a	OM3	G651.1
50/125	A1a	OM4	G651.1
9/125	B1.1	OS1	G652B
9/125	B1.2	N/A	G654
9/125	B1.3	OS2	G652D
9/125	B2	N/A	G653
9/125	B4	N/A	G655
9/125	B5	N/A	G656
9/125	B6	N/A	G657

不同标准下同一款光纤有不同的命名规制，下面我们按照最常用的ITU标准下的光纤型号命名，简单介绍下几款常用的单多模通信光纤。

The same optical fiber have different names under different standards,below is brief introduction of several commonly used single-mode communication optical fiber under ITU standard.

常规9/125um单模光纤：G652D，G655，G657A1，G657A2，G657B3
Single mode fiber 9/125um:G652D，G655，G657A1，G657A2，G657B3

常规多模光纤：62.5/125um OM1，50/125um OM2，OM3–150，OM3–300，OM4–550
Multimode fiber:62.5/125um OM1，50/125um OM2，OM3-150，OM3-300，OM4-550

G652D单模全贝低水峰光纤–中文参数表

特性	条件	数据	单位
光学特性			
衰减	1310 nm	≤0.34	[dB/km]
	1383 nm	≤0.34	[dB/km]
	1550 nm	≤0.20	[dB/km]
	1625 nm	≤0.23	[dB/km]
相对于波长的衰减变化	1285–1330 nm，相对于1310 nm	≤0.03	[dB/km]
	1525–1575 nm，相对于1550 nm	≤0.02	[dB/km]
波长范围内的色散	1285 - 1340 nm	≥–3.4 ≤3.4	[ps/(nm · km)]
	1550 nm	≤18	[ps/(nm · km)]
	1625 nm	≤22	[ps/(nm · km)]
零色散波长		1312 ± 12	[nm]
零色散斜率		≤0.091	[ps/(nm² · km)]
零色散斜率典型值		0.086	[ps/(nm² · km)]
偏振模色散系数（PMD）			
单根光纤最大值		≤0.1	[ps $\sqrt{km}$]
光纤链路值 (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
典型值		0.04	[ps $\sqrt{km}$]
光缆截止波长（λ_{cc}）		≤1260	[nm]
模场直径 (MFD)	1310 nm	8.7 ~ 9.5	[μm]
	1550 nm	9.9 ~ 10.9	[μm]
有效群折射率 (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
点不连续性	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
几何特性			
包层直径		125.0 ± 1.0	[μm]
包层不圆度		≤1.0	[%]
涂层直径		245 ± 7	[μm]
涂层/包层同心度误差		≤12.0	[μm]
涂层不圆度		≤6.0	[%]
芯/包层同心度误差		≤0.6	[μm]
翘曲度 (半径)		≥4	[m]
交货长度		2.1 to 50.4	[km/盘]
环境特性	1310 nm, 1550 nm 和 1625 nm		
温度附加衰减	–60℃ 到 85℃	≤0.05	[dB/km]
温度–湿度循环附加衰减	–10℃ 到 85℃，98% 相对湿度	≤0.05	[dB/km]
浸水附加衰减	23℃，30 天	≤0.05	[dB/km]
湿热附加衰减	85℃，85%相对湿度，30天	≤0.05	[dB/km]
干热老化	85℃，30天	≤0.05	[dB/km]
机械特性			
筛选张力	离线	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
宏弯附加损耗			
1圈，半径16 mm	1550 nm	≤0.05	[dB]
100圈，半径25 mm	1310 nm 和 1550 nm	≤0.05	[dB]
100圈，半径30 mm	1625 nm	≤0.05	[dB]
涂层剥离力	典型平均值	1.7	[N]
	峰值	≥1.3 ≤8.9	[N]
动态疲劳参数 (n_d)		≥20	

G652D Singlemode Fullband Low Water Peak Fiber

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	1310 nm	≤0.34	[dB/km]
	1383 nm	≤0.34	[dB/km]
	1550 nm	≤0.20	[dB/km]
	1625 nm	≤0.23	[dB/km]
Attenuation vs. Wavelength	1285–1330 nm	≤0.03	[dB/km]
Max. α difference	1525–1575 nm	≤0.02	[dB/km]
Dispersion coefficient	1285 - 1340 nm	≥–3.4 ≤3.4	[ps/(nm · km)]
	1550 nm	≤18	[ps/(nm · km)]
	1625 nm	≤22	[ps/(nm · km)]
Zero dispersion wavelength		1312 ± 12	[nm]
Zero dispersion slope		≤0.091	[ps/(nm² · km)]
Typical value		0.086	[ps/(nm² · km)]
PMD			
Maximum Individual Fibre		≤0.1	[ps $\sqrt{km}$]
Link Design Value (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
Typical value		0.04	[ps $\sqrt{km}$]
Cable cutoff wavelength λ_{cc}		≤1260	[nm]
Mode field diameter (MFD)	1310 nm	8.7 ~ 9.5	[μm]
	1550 nm	9.9 ~ 10.9	[μm]
Effective group index of refraction (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
Point discontinuities	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
Geometrical Characteristics			
Cladding diameter		125.0 ± 1.0	[μm]
Cladding non–circularity		≤1.0	[%]
Coating diameter		245 ± 7	[μm]
Coating–cladding concentricity error		≤12.0	[μm]
Coating non–circularity		≤6.0	[%]
Core–cladding concentricity error		≤0.6	[μm]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 50.4	[km/reel]
Environmental Characteristics	(1310 nm, 1550 nm & 1625 nm)		
Temperature dependence			
Induced attenuation at	–60℃ to +85℃	≤0.05	[dB/km]
Temperature–humidity cycling			
Induced attenuation at	–10℃ to +85℃，98% RH	≤0.05	[dB/km]
Watersoak dependence			
Induced attenuation at	23℃, for 30 days	≤0.05	[dB/km]
Damp heat dependence			
Induced attenuation at	85℃ and 85% RH，for 30 days	≤0.05	[dB/km]
Dry heat aging at	85℃	≤0.05	[dB/km]
Mechanical Specification			
Proof test	off line	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Macro–bend induced attenuation			
1 turn around a mandrel of 32 mm diameter	1550 nm	≤0.05	[dB]
100 turns around a mandrel of 50 mm diameter	1310 nm & 1550 nm	≤0.05	[dB]
100 turns around a mandrel of 60 mm diameter	1625 nm	≤0.05	[dB]
Coating strip force	typical average force	1.7	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter n_d		≥20	

G655单模非零色散位移光纤–中文参数表

特性	条件	数据	单位
光学特性			
衰减	1550 nm	≤0.22	[dB/km]
	1625 nm	≤0.24	[dB/km]
相对于波长的衰减变化	1525～1575 nm，相对于1550 nm	≤0.02	[dB/km]
波长范围内的色散	1530 ～1565 nm	≥2.0 ≤6.0	[ps/(nm · km)]
	1565 ～1625 nm	≥4.5 ≤11.2	[ps/(nm · km)]
零色散波长		≤1520	[nm]
色散斜率		≤0.084	[ps/(nm² · km)]
色散斜率典型值		0.075	[ps/(nm² · km)]
偏振模色散系数 (PMD)			
单根光纤最大值		≤0.2	[ps $\sqrt{km}$]
光纤链路值 (M=20,Q=0.01%)		≤0.08	[ps $\sqrt{km}$]
典型值		0.04	[ps $\sqrt{km}$]
光缆截止波长 (λ_{cc})		≤1450	[nm]
模场直径 (MFD)	1550 nm	9.1～10.1	[μm]
有效群折射率 (N_{eff})	1550 nm	1.469	
	1625 nm	1.469	
点不连续性	1550 nm	≤0.05	[dB]
几何特性			
包层直径		125.0 ± 0.7	[μm]
包层不圆度		≤1.0	[%]
涂层直径		245 ± 7	[μm]
涂层/包层同心度误差		≤12.0	[μm]
涂层不圆度		≤6.0	[%]
芯/包层同心度误差		≤0.6	[μm]
翘曲度 (半径)		≥4	[m]
交货长度		2.1 到 25.2	[km/盘]
环境特性	1550 nm 和 1625 nm		
温度附加衰减	–60℃ 到 85℃	≤0.05	[dB/km]
温度–湿度循环附加衰减	–10℃ 到 85℃，98% 相对湿度	≤0.05	[dB/km]
浸水附加衰减	23℃，30 天	≤0.05	[dB/km]
湿热附加衰减	85℃，85%相对湿度，30天	≤0.05	[dB/km]
干热老化	85℃，30天	≤0.05	[dB/km]
机械特性			
筛选张力	离线	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
宏弯附加损耗			
1圈，半径16 mm	1550 nm	≤0.05	[dB]
100圈，半径25 mm	1310 nm 和 1550 nm	≤0.05	[dB]
100圈，半径30 mm	1625 nm	≤0.05	[dB]
涂层剥离力	典型平均值	1.5	[N]
	峰值	≥1.3 ≤8.9	[N]
动态疲劳参数 (n_d，典型值)		27	

G655 Singlemode non-zero dispersion optical fiber

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	1550 nm	≤0.22	[dB/km]
	1625 nm	≤0.24	[dB/km]
Attenuation vs. Wavelength Max. α difference	1525～1575 nm	≤0.02	[dB/km]
Dispersion coefficient	1530 ～1565 nm	≥2.0 ≤6.0	[ps/(nm · km)]
	1565 ～1625 nm	≥4.5 ≤11.2	[ps/(nm · km)]
Zero dispersion wavelength		≤1520	[nm]
Dispersion slope at 1550 nm		≤0.084	[ps/(nm² · km)]
Typical dispersion slope at 1550 nm		0.075	[ps/(nm² · km)]
PMD			
Maximum Individual Fibre		≤0.2	[ps $\sqrt{km}$]
Link Design Value (M=20,Q=0.01%)		≤0.08	[ps $\sqrt{km}$]
Typical value		0.04	[ps $\sqrt{km}$]
Cable cutoff wavelength λ_{cc}		≤1450	[nm]
Mode field diameter (MFD)	1550 nm	9.1～10.1	[μm]
Effective group index of refraction (N_{eff})	1550 nm	1.469	
	1625 nm	1.469	
Point discontinuities	1550 nm	≤0.05	[dB]
Geometrical Characteristics			
Cladding diameter		125.0 ± 0.7	[μm]
Cladding non–circularity		≤1.0	[%]
Coating diameter		245 ± 7	[μm]
Coating–cladding concentricity error		≤12.0	[μm]
Coating non–circularity		≤6.0	[%]
Core–cladding concentricity error		≤0.6	[μm]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 25.2	[km/reel]
Environmental Characteristics	(1550 nm & 1625 nm)		
Temperature dependence Induced attenuation at	–60℃ to +85℃	≤0.05	[dB/km]
Temperature–humidity cycling Induced attenuation at	–10℃ to +85℃，98% RH	≤0.05	[dB/km]
Watersoak dependence Induced attenuation at	23℃ for 30 days	≤0.05	[dB/km]
Damp heat dependence Induced attenuation at	85℃ and 85% RH，for 30 days	≤0.05	[dB/km]
Dry heat aging at	85℃	≤0.05	[dB/km]
Mechanical Specification			
Proof test		≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Macro–bend induced attenuation			
1 turn around a mandrel of 32 mm diameter	1550 nm	≤0.05	[dB]
100 turns around a mandrel of 50 mm diameter	1310 nm & 1550 nm	≤0.05	[dB]
100 turns around a mandrel of 60 mm diameter	1625 nm	≤0.05	[dB]
Coating strip force	typical average force	1.5	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter n_d		≥20	

G657A1单模易贝弯曲不敏感光纤–中文参数表

特性	条件	数据	单位
光学特性			
衰减	1310 nm	≤0.35	[dB/km]
	1383 nm (氢老化后)	≤0.35	[dB/km]
	1460 nm	≤0.25	[dB/km]
	1550 nm	≤0.21	[dB/km]
	1625 nm	≤0.23	[dB/km]
相对于波长的衰减变化	1285 ~ 1330 nm，相对于1310 nm	≤0.03	[dB/km]
	1525 ~ 1575 nm，相对于1550 nm	≤0.02	[dB/km]
波长范围内的色散	1285 ~ 1340 nm	≥–3.4 ≤3.4	[ps/(nm · km)]
	1550 nm	≤18	[ps/(nm · km)]
	1625 nm	≤22	[ps/(nm · km)]
零色散波长		1300 ~ 1324	[nm]
零色散斜率		≤0.092	[ps/(nm² · km)]
零色散斜率典型值		0.086	[ps/(nm² · km)]
偏振模色散系数（PMD）			
单根光纤最大值		≤0.1	[ps $\sqrt{km}$]
光纤链路值 (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
典型值		0.04	[ps $\sqrt{km}$]
光缆截止波长 (λ_{cc})		≤1260	[nm]
模场直径 (MFD)	1310 nm	8.4 ~ 9.2	[μm]
	1550 nm	9.3 ~ 10.3	[μm]
有效群折射率 (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
点不连续性	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
几何特性			
包层直径		125.0 ± 0.7	[μm]
包层不圆度		≤0.7	[%]
涂层直径		245 ± 5	[μm]
涂层/包层同心度误差		≤12.0	[μm]
涂层不圆度		≤6.0	[%]
芯/包层同心度误差		≤0.5	[μm]
翘曲度 (半径)		≥4	[m]
交货长度		2.1到 50.4	[km/盘]
环境特性	1310 nm, 1550 nm 和 1625 nm		
温度附加衰减	–60℃ 到 85℃	≤0.05	[dB/km]
温度–湿度循环附加衰减	–10℃ 到 85℃，98% 相对湿度	≤0.05	[dB/km]
浸水附加衰减	23℃，30天	≤0.05	[dB/km]
湿热附加衰减	85℃，85%相对湿度，30天	≤0.05	[dB/km]
干热老化	85℃，30天	≤0.05	[dB/km]
机械特性			
筛选张力	离线	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
宏弯附加损耗			
10圈，半径15 mm	1550 nm	≤0.25	[dB]
10圈，半径10 mm	1625 nm	≤1.0	[dB]
1圈，半径10 mm	1550 nm	≤0.75	[dB]
1圈，半径10 mm	1625 nm	≤1.5	[dB]
涂层剥离力	典型平均值	1.7	[N]
	峰值	≥1.3 ≤8.9	[N]
动态疲劳参数 (n_d)		≥20	

G657A1 Singlemode EasyBand Bending Insensitive Fiber

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	1310 nm	≤0.35	[dB/km]
	1383 nm (after H_2–aging)	≤0.35	[dB/km]
	1460 nm	≤0.25	[dB/km]
	1550 nm	≤0.21	[dB/km]
	1625 nm	≤0.23	[dB/km]
Attenuation vs. Wavelength	1285 ~ 1330 nm	≤0.03	[dB/km]
Max. α difference	1525 ~ 1575 nm	≤0.02	[dB/km]
Dispersion coefficient	1285 ~ 1340 nm	≥–3.4 ≤3.4	[ps/(nm · km)]
	1550 nm	≤18	[ps/(nm · km)]
	1625 nm	≤22	[ps/(nm · km)]
Zero dispersion wavelength		1300 ~ 1324	[nm]
Zero dispersion slope		≤0.092	[ps/(nm² · km)]
Typical value		0.086	[ps/(nm² · km)]
PMD			
Maximum Individual Fibre		≤0.1	[ps $\sqrt{km}$]
Link Design Value (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
Typical value		0.04	[ps $\sqrt{km}$]
Cable cutoff wavelength λ_{cc}		≤1260	[nm]
Mode field diameter (MFD)	1310 nm	8.4 ~ 9.2	[μm]
	1550 nm	9.3 ~ 10.3	[μm]
Effective group index of refraction (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
Point discontinuities	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
Geometrical Characteristics			
Cladding diameter		125.0 ± 0.7	[μm]
Cladding non–circularity		≤0.7	[%]
Coating diameter		245 ± 5	[μm]
Coating–cladding concentricity error		≤12.0	[μm]
Coating non–circularity		≤6.0	[%]
Core–cladding concentricity error		≤0.5	[μm]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 50.4	[km/reel]
Environmental Characteristics	(1310 nm, 1550 nm & 1625 nm)		
Temperature dependence Induced attenuation at	–60℃ to +85℃	≤0.05	[dB/km]
Temperature–humidity cycling Induced attenuation at	–10℃ to +85℃，98% RH	≤0.05	[dB/km]
Watersoak dependence Induced attenuation at	23℃, for 30 days	≤0.05	[dB/km]
Damp heat dependence Induced attenuation at	85℃ and 85% RH，for 30 days	≤0.05	[dB/km]
Dry heat aging at	85℃	≤0.05	[dB/km]
Mechanical Specification			
Proof test	off line	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Macro–bend induced attenuation			
10 turns around a mandrel of 30 mm diameter	1550 nm	≤0.25	[dB]
10 turns around a mandrel of 30 mm diameter	1625 nm	≤1.0	[dB]
1 turn around a mandrel of 20 mm diameter	1550 nm	≤0.75	[dB]
1 turn around a mandrel of 20 mm diameter	1625 nm	≤1.5	[dB]
Coating strip force	typical average force	1.7	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter n_d		≥20	

G657A2单模易贝弯曲不敏感光纤–中文参数表

特性	条件	数据	单位
光学特性			
衰减	1310 nm	≤0.35	[dB/km]
	1383 nm (氢老化后)	≤0.35	[dB/km]
	1460 nm	≤0.25	[dB/km]
	1490 nm	≤0.23	[dB/km]
	1550 nm	≤0.21	[dB/km]
	1625 nm	≤0.23	[dB/km]
相对于波长的衰减变化	1285～1330 nm，相对于1310 nm	≤0.03	[dB/km]
	1525～1575 nm，相对于1550 nm	≤0.02	[dB/km]
零色散波长		1300～1324	[nm]
零色散斜率		≤0.092	[ps/(nm²·km)]
偏振模色散系数 (PMD)			
单根光纤最大值		≤0.1	[ps $\sqrt{km}$]
光纤链路值 (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
典型值		0.04	[ps $\sqrt{km}$]
光缆截止波长 (λ_{cc})		≤1260	[nm]
模场直径 (MFD)	1310 nm	8.4～9.2	[μm]
	1550 nm	9.3～10.3	[μm]
有效群折射率 (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
点不连续性	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
几何特性			
包层直径		125.0±0.7	[μm]
包层不圆度		≤0.7	[%]
涂层直径		245±5	[μm]
涂层/包层同心度误差		≤12.0	[μm]
涂层不圆度		≤6.0	[%]
芯/包层同心度误差		≤0.5	[μm]
翘曲度 (半径)		≥4	[m]
交货长度		2.1 到 50.4	[km/盘]
环境特性	1310 nm, 1550 nm 和 1625 nm		
温度附加衰减	–60℃ 到 85℃	≤0.05	[dB/km]
温度–湿度循环附加衰减	–10℃ 到 85℃，98% 相对湿度	≤0.05	[dB/km]
浸水附加衰减	23℃，30天	≤0.05	[dB/km]
湿热附加衰减	85℃，85%相对湿度，30天	≤0.05	[dB/km]
干热老化	85℃，30天	≤0.05	[dB/km]
机械特性			
筛选张力	离线	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
宏弯附加损耗			
10圈，半径15 mm	1550 nm	≤0.03	[dB]
10圈，半径15 mm	1625 nm	≤0.1	[dB]
1圈，半径10 mm	1550 nm	≤0.1	[dB]
1圈，半径10 mm	1625 nm	≤0.2	[dB]
1圈，半径7.5 mm	1550 nm	≤0.2	[dB]
1圈，半径7.5 mm	1625 nm	≤0.5	[dB]
涂层剥离力	典型平均值	1.7	[N]
	峰值	≥1.3 ≤8.9	[N]
动态疲劳参数 (n_d ,典型值)		27	

G657A2 Singlemode EasyBand Bending Insensitive Fiber

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	1310 nm	≤0.35	[dB/km]
	1383 nm (after H_2–aging)	≤0.35	[dB/km]
	1460 nm	≤0.25	[dB/km]
	1490 nm	≤0.23	[dB/km]
	1550 nm	≤0.21	[dB/km]
	1625 nm	≤0.23	[dB/km]
Attenuation vs. Wavelength	1285～1330 nm	≤0.03	[dB/km]
Max. α difference	1525～1575 nm	≤0.02	[dB/km]
Zero dispersion wavelength		1300～1324	[nm]
Zero dispersion slope		≤0.092	[ps/(nm²·km)]
PMD			
Maximum Individual Fibre		≤0.1	[ps $\sqrt{km}$]
Link Design Value (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
Typical value		0.04	[ps $\sqrt{km}$]
Cable cutoff wavelength λ_{cc}		≤1260	[nm]
Mode field diameter (MFD)	1310 nm	8.4～9.2	[μm]
	1550 nm	9.3～10.3	[μm]
Effective group index of refraction (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
Point discontinuities	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
Geometrical Characteristics			
Cladding diameter		125.0±0.7	[μm]
Cladding non–circularity		≤0.7	[%]
Coating diameter		245±5	[μm]
Coating–cladding concentricity error		≤12.0	[μm]
Coating non–circularity		≤6.0	[%]
Core–cladding concentricity error		≤0.5	[μm]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 50.4	[km/reel]
Environmental Characteristics	(1310 nm, 1550 nm & 1625 nm)		
Temperature dependence			
Induced attenuation at	–60℃ to +85℃	≤0.05	[dB/km]
Temperature–humidity cycling			
Induced attenuation at	–10℃ to +85℃，98% RH	≤0.05	[dB/km]
Watersoak dependence			
Induced attenuation at	23℃, for 30 days	≤0.05	[dB/km]
Damp heat dependence			
Induced attenuation at	85℃ and 85% RH，for 30 days	≤0.05	[dB/km]
Dry heat aging at	85℃, for 30 days	≤0.05	[dB/km]
Mechanical Specification			
Proof test	off line	≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Macro–bend induced attenuation			
10 turns around a mandrel of 15 mm radius	1550 nm	≤0.03	[dB]
10 turns around a mandrel of 15 mm radius	1625 nm	≤0.1	[dB]
1 turn around a mandrel of 10 mm radius	1550 nm	≤0.1	[dB]
1 turn around a mandrel of 10 mm radius	1625 nm	≤0.2	[dB]
1 turn around a mandrel of 7.5 mm radius	1550 nm	≤0.2	[dB]
1 turn around a mandrel of 7.5 mm radius	1625 nm	≤0.5	[dB]
Coating strip force	average torce (typical)	1.7	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter n_d (typical)		27	

G657B3单模易贝超强弯曲不敏感光纤–中文参数表

特性	条件	数据	单位
光学特性			
衰减	1310 nm	≤0.35	[dB/km]
	1383 nm(氢老化后)	≤0.35	[dB/km]
	1550 nm	≤0.21	[dB/km]
	1625 nm	≤0.23	[dB/km]
相对于波长的衰减变化	1285 ~ 1330 nm，相对于1310 nm	≤0.03	[dB/km]
	1525 ~ 1575 nm，相对于1550 nm	≤0.02	[dB/km]
零色散波长		1300 ~ 1324	[nm]
零色散斜率		≤0.092	[ps/(nm² · km)]
偏振模色散系数 (PMD)			
单根光纤最大值		≤0.1	[ps $\sqrt{km}$]
光纤链路值 (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
典型值		0.04	[ps $\sqrt{km}$]
光缆截止波长 (λ_{cc})		≤1260	[nm]
模场直径 (MFD)	1310 nm	8.4 ~ 9.3	[μm]
	1550 nm	9.3 ~ 10.3	[μm]
有效群折射率 (N_{eff})	1310 nm	1.466	
	1550 nm	1.467	
点不连续性	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
几何特性			
包层直径		125.0 ± 0.7	[μm]
包层不圆度		≤0.7	[%]
涂层直径		245 ± 5	[μm]
涂层/包层同心度误差		≤12.0	[μm]
涂层不圆度		≤6.0	[%]
芯/包层同心度误差		≤0.5	[μm]
翘曲度 (半径)		≥4	[m]
交货长度		2.1 到 50.4	[km/盘]
环境特性	1310 nm, 1550 nm 和 1625 nm		
温度附加衰减	–60℃ 到 85℃	≤0.05	[dB/km]
温度–湿度循环附加衰减	–10℃ 到 85℃，98% 相对湿度	≤0.05	[dB/km]
浸水附加衰减	23℃，30天	≤0.05	[dB/km]
湿热附加衰减	85℃，85%相对湿度，30天	≤0.05	[dB/km]
干热老化	85℃，30天	≤0.05	[dB/km]
机械特性			
筛选张力	离线	≥0.69	[N]
		≥1.0	[%]
		≥100	[kpsi]
宏弯附加损耗			
1圈，半径5 mm	1550 nm	≤0.15	[dB]
1圈，半径5 mm	1625 nm	≤0.45	[dB]
1圈，半径7.5 mm	1550 nm	≤0.08	[dB]
1圈，半径7.5 mm	1625 nm	≤0.25	[dB]
1圈，半径10 mm	1550 nm	≤0.03	[dB]
1圈，半径10 mm	1625 nm	≤0.1	[dB]
涂层剥离力	典型平均值	1.5	[N]
	峰值	≥1.3 ≤8.9	[N]
动态疲劳参数 (n_d ,典型值)		27	

G657B3 Singlemode EasyBand Plus Bending Insensitive Fiber

Characteristics	Conditions	Specified Values	Units
Optical Characteristics			
Attenuation	1310 nm	≤0.35	[dB/km]
	1383 nm(after H_2–aging)	≤0.35	[dB/km]
	1550 nm	≤0.21	[dB/km]
	1625 nm	≤0.23	[dB/km]
Attenuation vs. Wavelength	1285 ~ 1330 nm	≤0.03	[dB/km]
Max. α difference	1525 ~ 1575 nm	≤0.02	[dB/km]
Zero dispersion wavelength		1300 ~ 1324	[nm]
Zero dispersion slope		≤0.092	[ps/(nm² · km)]
PMD			
Maximum Individual Fibre		≤0.1	[ps $\sqrt{km}$]
Link Design Value (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{km}$]
Typical value		0.04	[ps $\sqrt{km}$]
Cable cutoff wavelength λ_{cc}		≤1260	[nm]
Mode field diameter (MFD)	1310 nm	8.4 ~ 9.3	[μm]
	1550 nm	9.3 ~ 10.3	[μm]
Effective group index of refraction (N_{eff})	1310 nm	1.468	
	1550 nm	1.469	
Point discontinuities	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
Geometrical Characteristics			
Cladding diameter		125.0 ± 0.7	[μm]
Cladding non–circularity		≤0.7	[%]
Coating diameter		245 ± 5	[μm]
Coating–cladding concentricity error		≤12.0	[μm]
Coating non–circularity		≤6.0	[%]
Core–cladding concentricity error		≤0.5	[μm]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 50.4	[km/reel]
Environmental Characteristics	(1310 nm, 1550 nm & 1625 nm)		
Temperature dependence			
Induced attenuation at	–60℃ to +85℃	≤0.05	[dB/km]
Temperature–humidity cycling			
Induced attenuation at	–10℃ to +85℃，98% RH	≤0.05	[dB/km]
Watersoak dependence			
Induced attenuation at	23℃, for 30 days	≤0.05	[dB/km]
Damp heat dependence			
Induced attenuation at	85℃ and 85% RH，for 30 days	≤0.05	[dB/km]
Dry heat aging at	85℃, for 30 days	≤0.05	[dB/km]
Mechanical Specification			
Proof test	off line	≥0.69	[GPa]
		≥1.0	[%]
		≥100	[kpsi]
Macro–bend induced attenuation			
1 turns around a mandrel of 5 mm radius	1550 nm	≤0.15	[dB]
1 turns around a mandrel of 5 mm radius	1625 nm	≤0.45	[dB]
1 turn around a mandrel of 7.5 mm radius	1550 nm	≤0.08	[dB]
1 turn around a mandrel of 7.5 mm radius	1625 nm	≤0.25	[dB]
1 turn around a mandrel of 10 mm radius	1550 nm	≤0.03	[dB]
1 turn around a mandrel of 10 mm radius	1625 nm	≤0.1	[dB]
Coating strip force	average torce (typical)	1.5	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter n_d (typical)		27	

OM1 62.5/125um多模渐变折射率光纤–中文参数表

特性	条件	数据	单位
几何特性			
芯直径		62.5 ± 2.5	[μm]
芯不圆度		≤5.0	[%]
包层直径		125.0 ± 1.0	[μm]
包层不圆度		≤1.0	[%]
涂层直径		245 ± 7	[μm]
涂层/包层同心度		≤10.0	[μm]
涂层不圆度		≤6.0	[%]
芯层/包层同心度		≤1.5	[μm]
光纤长度		最长到 17.6	[km/盘]
光学特性			
衰减	850nm	≤2.7	[dB/km]
	1300nm	≤0.6	[dB/km]
满注入带宽	850nm	≥200	[MHz · km]
	1300nm	≥500	[MHz · km]
数值孔径		0.275 ± 0.015	
群折射率	850nm	1.496	
	1300nm	1.491	
零色散波长		1320~1365	[nm]
零色散斜率	1320nm≤ λ_0 ≤1348nm	≤0.11	[ps/(nm^2 · km)]
	1348nm≤ λ_0 ≤1365nm	≤0.001(1458– λ_0)	[ps/(nm^2 · km)]
宏弯损耗			
100圈，半径37.5 mm	850nm	≤0.50	[dB]
	1300nm	≤0.50	[dB]
背向散射特性	1300nm		
台阶（双向测量的平均值）		≤0.10	[dB]
长度方向的不规律性和点不连续性		≤0.10	[dB]
衰减不均匀性		≤0.10	[dB/km]
环境特性	850nm & 1300nm		
温度循环附加衰减	–60℃ 到 85℃	≤0.10	[dB/km]
温度–湿度循环附加衰减	–10℃ 到85℃，4% 到 98% 相对湿度	≤0.10	[dB/km]
浸水附加衰减	23℃， 30天	≤0.10	[dB/km]
干热附加衰减	85℃，30天	≤0.10	[dB/km]
湿热附加衰减	85℃和85%相对湿度，30天	≤0.10	[dB/km]
机械特性			
筛选张力		≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
涂层剥离力	典型平均剥离力	1.5	[N]
	峰值力	≥1.3 ≤8.9	[N]
动态疲劳参数(n_d，典型值)		27	

OM1 62.5/125um multimode Graded Index Fiber

Characteristics	Conditions	Specified Values	Units
Geometry Characteristics			
Core Diameter		62.5 ± 2.5	[μm]
Cladding Diameter		125.0 ± 1.0	[μm]
Cladding Non–Circularity		≤1.0	[%]
Coating Diameter		245 ± 7	[μm]
Coating/Cladding Concentricity Error		≤12.0	[μm]
Coating Non–Circularity		≤6.0	[%]
Core/Cladding Concentricity Error		≤1.5	[μm]
Delivery Length		Up to 17.6	[km/reel]
Optical Characteristics		Class A/Class B	
Attenuation	850nm	≤2.7/≤3.0	[dB/km]
	1300nm	≤0.6/≤0.8	[dB/km]
Minimum Modal Bandwidth	850nm	≥200/≥160	[MHz.km]
	1300nm	≥600/≥500	[MHz.km]
Numerical Aperture		0.275 ± 0.015	
Group Refractive Index	850nm	1.496	
	1300nm	1.491	
Zero Dispersion Wavelength		1320~1365	[nm]
Zero Dispersion Slope		≤0.097	[ps/(nm^2.km)]
Macrobending induced loss	850nm	≤0.50	[dB]
100 turns @ 60 mm diameter	1300nm	≤0.50	[dB]
Backscatter Characteristics	1300nm		
Step (Mean of bidirectional measurement)		≤0.10	[dB]
Irregularities over fibre length and point discontinuity		≤0.10	[dB]
Attenuation uniformity		≤0.10	[dB/km]
Environmental Characteristics	850nm & 1300nm		
Temperature dependence induced attenuation	–60℃ to 85℃	≤0.10	[dB/km]
Temperature–humidity cycling induced attenuation	–10℃ to 85℃, 98% RH	≤0.10	[dB/km]
Watersoak dependence induced attenuation	23℃ for 30 days	≤0.10	[dB/km]
Damp heat dependence induced attenuation	85℃ and 85% RH, for 30days	≤0.10	[dB/km]
Dry heat aging	85℃ for 30 days	≤0.10	[dB/km]
Mechanical Specification			
Proof test		≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Coating strip force	typical average force	1.5	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter (n_d ,typical)		27	

OM2/OM3–150/OM3–300/OM4–550 50/125um超贝多模渐变折射率光纤–中文参数表

特性	条件	数据	单位
几何特性			
芯直径		50 ± 2.5	[μm]
芯不圆度		≤5.0	[%]
包层直径		125.0 ± 1.0	[μm]
包层不圆度		≤1.0	[%]
涂层直径		245 ± 7	[μm]
涂层/包层同心度误差		≤12.0	[μm]
涂层不圆度		≤6.0	[%]
芯/包层同心度误差		≤1.0	[μm]
交货长度		最大至 8.8	[km/盘]
光学特性			
衰减	850nm	≤2.3	[dB/km]
	1300nm	≤0.6	[dB/km]
		超贝®OM2+/OM3/OM4	
满注入带宽 (OFL)	850nm	≥700/≥1500/≥3500	[MHz.km]
	1300nm	≥500/≥500/≥500	[MHz.km]
有效模式带宽 @850nm		≥950/≥2000/≥4700	[MHz.km]
支持千兆以太网			
10 Gigabit Ethernet SX 850nm		150/300/550	[m]
Gigabit Ethernet SX 850nm		750/1000/1100	[m]
Gigabit Ethernet LX 1300nm		600/600/600	[m]
40 & 100 Gigabit Ethernet 850nm		–/100/150	[m]
DMD 标准		参见注释1	
数值孔径		0.200 ± 0.015	
有效群折射率	850nm	1.482	
	1300nm	1.477	
零色散波长		1295–1320	[nm]
零色散斜率	1295–1300nm	≤0.001 × (λ0 –1190)	[ps/(nm².km)]
	1300–1320nm	≤0.11	[ps/(nm².km)]
宏弯损耗	850nm	≤0.50	[dB]
100圈，半径30mm	1300nm	≤0.50	[dB]
背向散射特性	1300nm		
台阶（双向测量的平均值）		≤0.10	[dB]
长度方向的不规律性和点不连续性		≤0.10	[dB]
衰减均匀性		≤0.08	[dB/km]
环境特性	850nm & 1300nm		
温度附加衰减	–60℃到85℃	≤0.10	[dB/km]
温度–湿度循环附加衰减	–10℃到85℃，98%相对湿度	≤0.10	[dB/km]
浸水附加衰减	23℃，30天	≤0.10	[dB/km]
湿热附加衰减	85℃和85%相对湿度，30天	≤0.10	[dB/km]
干热附加衰减	85℃，30天	≤0.10	[dB/km]
机械特性			
筛选张力		≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
涂层剥离力	典型平均剥离力	1.5	[N]
	峰值力	≥1.3 ≤8.9	[N]
动态疲劳参数（nd，典型值）		27	

1. DMD标准满足并更严格于IEC 60793–2–10要求（A1a.2类即OM3， A1a.3类 即OM4）以及TIA–492AAAC (OM3) 和 492AAAD (OM4)要求。

OM2/OM3-150/OM3-300/OM4-550 50/125um MaxBand multimode Graded Index Fiber

Characteristics	Conditions	Specified Values	Units
Geometry Characteristics			
Core Diameter		50 ± 2.5	[μm]
Core Non–Circularity		≤5.0	[%]
Cladding Diameter		125.0 ± 1.0	[μm]
Cladding Non–Circularity		≤1.0	[%]
Coating Diameter		245 ± 7	[μm]
Coating/Cladding Concentricity Error		≤12.0	[μm]
Coating Non–Circularity		≤6.0	[%]
Core/Cladding Concentricity Error		≤1.0	[μm]
Delivery Length		Up to 8.8	[km/reel]
Optical Characteristics			
Attenuation	850nm	≤2.3	[dB/km]
	1300nm	≤0.6	[dB/km]
		MaxBand®OM2+/OM3/OM4	
OFL Bandwidth	850nm	≥700/≥1500/≥3500	[MHz.km]
	1300nm	≥500/≥500/≥500	[MHz.km]
Effective Modal Bandwidth @850nm		≥950/≥2000/≥4700	[MHz.km]
Application support distance on			
10 Gigabit Ethernet SX 850nm		150/300/550	[m]
Gigabit Ethernet SX 850nm		750/1000/1100	[m]
Gigabit Ethernet LX 1300nm		600/600/600	[m]
40 & 100 Gigabit Ethernet 850nm		–/100/150	[m]
DMD Specification		See Note 1	
Numerical Aperture		0.200 ± 0.015	
Group Refractive Index	850nm	1.482	
	1300nm	1.477	
Zero Dispersion Wavelength		1295–1320	[nm]
Zero Dispersion Slope	1295–1300nm	≤0.001 × (λ0 –1190)	[ps/(nm².km)]
	1300–1320nm	≤0.11	[ps/(nm².km)]
Macrobending induced loss	850nm	≤0.50	[dB]
100 turns @ 30mm radius	1300nm	≤0.50	[dB]
Backscatter Characteristics	1300nm		
Step (Mean of bidirectional measurement)		≤0.10	[dB]
Irregularities over fibre length and point discontinuity		≤0.10	[dB]
Attenuation uniformity		≤0.08	[dB/km]
Environmental Characteristics	850nm & 1300nm		
Temperature dependence induced attenuation	–60℃ to 85℃	≤0.10	[dB/km]
Temperature–humidity cycling induced attenuation	–10℃ to 85℃, 98% RH	≤0.10	[dB/km]
Watersoak dependence induced attenuation	23℃ for 30 days	≤0.10	[dB/km]
Damp heat dependence induced attenuation	85℃ and 85% RH, for 30days	≤0.10	[dB/km]
Dry heat aging	85℃ for 30 days	≤0.10	[dB/km]
Mechanical Specification			
Proof test		≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Coating strip force	typical average force	1.5	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter (nd ,typical)		27	

1. DMD specifications are compliant with and more stringent than the requirements of IEC 60793–2–10 (type A1a.2 for OM3 and type A1a.3 for OM4 and TIA–492AAAC (OM3) and 492AAAD (OM4).

单模光纤G657A与G652D性能区别对照表
Comparison Table of Single-mode fiber G657A and G652D

光纤描述 fiber type		单位 unit				技术指标 technical index								
			G652.D	G657.A1		G657.A2			G657.B2			G657.B3		
1310nm		um	(8.6-9.5)±0.6	(8.6-9.5)±0.4		(8.6-9.5)±0.4			(6.3-9.5)±0.4			(6.3-9.5)±0.4		
未成缆光纤的宏弯损耗 Macro bending loss of uncable optical fiber.	弯曲半径	mm	30	15	10	15	10	7.5	15	10	7.5	10	7.5	5
	弯曲圈数	-	100	10	1	10	1	1	10	1	1	1	1	1
	1550nm	dB	0.5	0.25	0.75	0.03	0.1	0.5	0.03	0.1	0.5	0.03	0.08	0.15
	1625nm	dB	0.5	1	1.5	0.1	0.2	1	0.1	0.2	1	0.1	0.25	0.45
衰减特性 fading characteristic	1310nm-1625nm	dB/km	≤0.4	≤0.4					≤0.5					
	1383nm±3nm	dB/km	≤0.4	≤0.4					不规定 Not required					
	1550nm	dB/km	≤0.3	≤0.3					≤0.3					
色散特性 dispersion characteristic	零色散波长	nm	1300-1324	1300-1324					不规定 Not required					
	零色散斜率	ps/nm²xkm	≤0.093	≤0.092										
偏振模色散特性 Polarization mode dispersion characteristics.	M	-	20	20					不规定 Not required					
	Q	-	0.01%	0.01%										
	PMDQ	ps/nm½xkm	≤0.20	≤0.20										

多模光纤性能区别对照表
Comparison Table of Single-mode fiber and Multimode fibe

光纤型号 Optical fiber type	光纤等级 Optical fiber is registered	全模式带宽Mhz*km Full mode bandwidth		有效模带宽Mhz*km effective modal bandwidth	1Gbps		10Gbps	
		@850nm	@1300nm	@850nm	@850nm	@1300nm	@850nm	@1300nm
62.5/125μm	OM1	200	500	220	275	550m	33m	300m
50/125μm	OM2	500	500	510	500	1000m	66m	450m
50/125μm-150	OM3	700	500	850	750	550m	150m	300m
50/125μm-300	OM3	1500	500	2000	1000	550m	300m	300m
50/125μm-550	OM4	3500	500	4700	1000	550m	550m	550m

07 Non-Standard Optical Fiber
非标特种纤芯

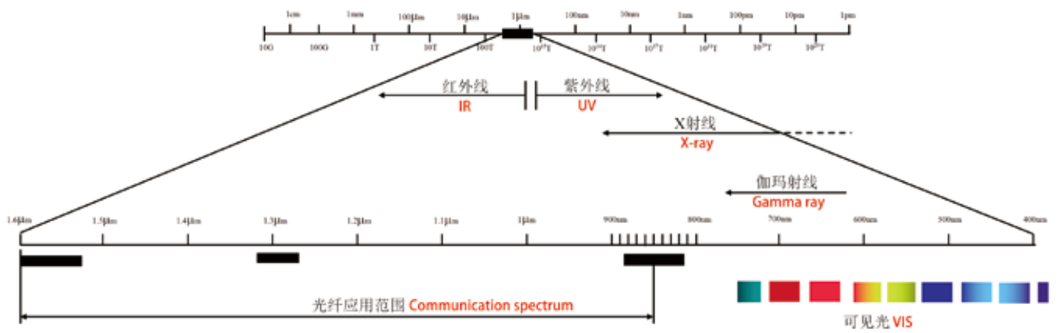
非标特种光纤可以按照多种分类方式进行分类:
Non-Standard optical fibers can be classified according to a variety of classification :

根据工作波段区域分类，可以分为红外IR光纤(BGIR)，紫外UV光纤(BGUV)，近红外FIR光纤(BGTU)，可见光VIS光纤(BGOU)。

According to the working band region classification, it can be divided into IR fiber, UV fiber, near infrared fir fiber and visible light VIS fiber.

光谱波段参照表

Spectral band reference table



根据光传输方式的不同，分为阶跃式折射率光纤（Step index fiber），渐变式折射率光纤（Graded index fiber）。

According to the different modes of optical transmission, it can be divided into step refractive index fiber step index fiber and graded refractive index fiber graded index fiber.

阶跃式光纤 Step index fiber

渐变式光纤Graded index fiber

另外根据特殊的工作性能，分为高功率激光能量光纤BGWU，指定波长截止光纤SW–SMF，保偏光纤PM，色散补偿光纤DCF等。根据光纤物理几何尺寸的不同，分为特殊超细单模光纤，特殊大孔径多模光纤。下面我们结合以上几种分类方式，介绍几款常用非标特种光纤

In addition, it is divided into high power laser energy fiber BGWU, designated wavelength cut-off fiber SW-SMF, polarization-maintaining fiber, dispersion compensation fiber DCF, etc. According to the different physical geometry of optical fiber, it is divided into special ultra-fine single-mode fiber. Special large aperture multimode optical fiber. Next, we introduce several commonly used non-standard special optical fibers in combination with the above-mentioned classification methods

2.1um单模HP–405可见蓝光光纤
2.1um SM HP-405 visible blue optical fiber

产品特性 Characteristics:

- 非常出色的光纤截面以及几何尺寸的控制，具有优越的连接和耦合性能。
- 极其严格的二阶模式截止波长公差控制，提高了相关光纤器件的重复性和一致性。
- 更高的强度测试水平，保证了光纤在弯曲情况下具有更好的可靠性。
- Excellent optical fiber cross section and geometric size control, with superior connection and coupling performance.
- The extremely strict two order mode cut-off wavelength tolerance control improves the repeatability and consistency of the related optical fiber devices.
- Higher strength test level ensures better reliability of fiber under bending condition.

应用领域 Applications:

- 激光二极管尾纤 Laser diode tail fiber
- 光纤耦合器 Optical fiber coupler
- 可见光器件 Visible light device

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径2.1um，包层125um Core diameter 2.1um, cladding 125um
- 工作波长400–550um,适用蓝光 Working wavelength 400-550um. suitable for blue light
- 数值孔径NA:0.13 Numerical aperture NA:0.13

技术参数表 Technical Parameter:

参数	Parameter	unit	Index
型号	Item		405-HP
工作波长范围	Operation wavelength	Nm	400-550
纤芯数值孔径	Fiber numerical aperture (NA)		0.130
模场直径	MFD	um	3.5±0.5@515nm
截止波长	Cut-off wavelength	nm	370±20
纤芯衰减	Fiber attenuation	dB/m	≤30.0@515nm
			≤12.0@630nm
包层直径	Cladding diameter	um	125±1.5
纤芯直径	Fiber diameter	um	2.1
涂覆层直径	Coating diameter	um	245±15
涂覆层同心度	Coating concentricity	um	≤5
纤芯/包层偏差	Core cladding deviation	um	≤0.5
涂覆层材料	Coating material		UV Curved ,Dual Acrylate
工作温度范围	Working temperature	℃	-55~+85
短期弯曲半径	Short bending radius	mm	≥6
长期弯曲半径	Long bending radius	mm	≥13
强度测试水平	Strength test level	kpsi	≥600（1.4GN/m2)

2.5um单模HP–460 可见绿光光纤
2.5um SM HP-460 visible green optical fiber

产品特性 Characteristics:

- 非常出色的光纤截面以及几何尺寸的控制，具有优越的连接和耦合性能。
- 极其严格的二阶模式截止波长公差控制，提高了相关光纤器件的重复性和一致性。
- 更高的强度测试水平，保证了光纤在弯曲情况下具有更好的可靠性。
- Excellent optical fiber cross section and geometric size control, with superior connection and coupling performance.
- The extremely strict two order mode cut-off wavelength tolerance control improves the repeatability and consistency of the related optical fiber devices.
- Higher strength test level ensures better reliability of fiber under bending condition.

应用领域 Applications:

- 激光二极管尾纤 Laser diode tail fiber
- 光纤耦合器 Optical fiber coupler
- 可见光器件 Visible light device

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径2.5um，包层125um Core diameter 2.5um, cladding 125um
- 工作波长450–600um,适用绿光 Working wavelength 450-600um. suitable for green light
- 数值孔径NA:0.13 Numerical aperture NA:0.13

技术参数表 Technical Parameter:

参数	Parameter	unit	Index
型号	Item		460-HP
工作波长(一般情况下)	Operation wavelength	Nm	450-600
模场直径@ 515nm (1/e2 fit-近场)	MFD @515nm	um	3.5±0.5
二阶模式截止波长	Second mode cutoff wavelength	nm	430±20
衰减@515nm普通情况下	Attenuation @515nm	dB/km	30
数值孔径(NA)	Fiber numerical aperture (NA)		0.13
弯曲损耗	Bending Loss	dB	0.001
(460nm, 100圈,13mm半径)	(460nm, 100 turns , diameter:13mm)		
弯曲半径(@460nm,每100turns	Bending radius (@460nm ,100turns ,		Much less than LTBR
损耗0.05dB)普通情况下	bending loss 0.05db)		
包层直径	Cladding diameter	um	125±1.5
涂覆层直径	Coating diameter	um	245±15
纤芯/包层同心度偏差	Coating concentricity	um	≤5
包层/涂覆层偏差	Core cladding deviation	um	≤0.5
强度测试水平	Coating material		UV Curved ,Dual Acrylate
涂覆层材料	Strength test level	kpsi	≥200（1.4GN/m2)
工作温度	Working temperature	℃	-55~+85
短期弯曲半径	Short bending radius	mm	≥6
长期弯曲半径	Long bending radius	mm	≥13

3.5um单模HP–630 可见红光光纤
3.5um SM HP-630 visible red optical fiber

产品特性 Characteristics:

- 非常出色的光纤截面以及几何尺寸的控制，具有优越的连接和耦合性能。
- 极其严格的二阶模式截止波长公差控制，提高了相关光纤器件的重复性和一致性。
- 更高的强度测试水平，保证了光纤在弯曲情况下具有更好的可靠性。
- Excellent optical fiber cross section and geometric size control, with superior connection and coupling performance.
- The extremely strict two order mode cut-off wavelength tolerance control improves the repeatability and consistency of the related optical fiber devices.
- Higher strength test level ensures better reliability of fiber under bending condition.

应用领域 Applications:

- 激光二极管尾纤 Laser diode tail fiber
- 光纤耦合器 Optical fiber coupler
- 可见光器件 Visible light device

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径3.5um，包层125um Core diameter 3.5um, cladding 125um
- 工作波长600–770um,适用绿光 Working wavelength 600-770um. suitable for green light
- 数值孔径NA:0.13 Numerical aperture NA:0.13

技术参数表 Technical Parameter:

参数	Parameter	unit	Index
型号	Item		630-HP
工作波长(一般情况下)	Operation wavelength	Nm	600-770
模场直径(1/e fit2-近场) @ 630nm	MFD @630nm	um	4.0±0.5
二阶模式截止波长	Second mode cutoff wavelength	nm	570±30
衰减@630nm	Attenuation @630nm	dB/km	＜12
数值孔径(NA)	Fiber numerical aperture (NA)		0.13
弯曲损耗	Bending Loss	dB	0.001
(630nm, 100圈@LTBR)普通情况下	(630nm, 100 turns , @LTBR))		
弯曲半径(@630nm,每100turns	Bending radius (@630nm ,100turns ,		Much less than LTBR
损耗0.05dB)普通情况下	Loss bending :0.05db))		
包层直径	Cladding diameter	um	125±1.5
涂覆层直径	Coating diameter	um	245±15
纤芯/包层同心度偏差	Coating concentricity	um	≤5
包层/涂覆层偏差	Core cladding deviation	um	≤0.5
强度测试水平	Strength test level	kpsi	≥200（1.4GN/m2)
涂覆层材料	Coating material		UV Curved ,Dual Acrylate
工作温度	Working temperature	℃	-55~+85
短期弯曲半径	Short bending radius	mm	≥6
长期弯曲半径	Long bending radius	mm	≥13

4.4um单模HP–780 近红外可见光通信光纤
4.4um SM HP-780 near infrared visible light communication fiber

产品特性 Characteristics:

- 非常出色的光纤截面以及几何尺寸的控制，具有优越的连接和耦合性能。
- 极其严格的二阶模式截止波长公差控制，提高了相关光纤器件的重复性和一致性。
- 更高的强度测试水平，保证了光纤在弯曲情况下具有更好的可靠性。
- Excellent optical fiber cross section and geometric size control, with superior connection and coupling performance.
- The extremely strict two order mode cut-off wavelength tolerance control improves the repeatability and consistency of the related optical fiber devices.
- Higher strength test level ensures better reliability of fiber under bending condition.

应用领域 Applications:

- 激光二极管尾纤 Laser diode tail fiber
- 光纤耦合器 Optical fiber coupler
- 可见光器件 Visible light device

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径4.4um，包层125um Core diameter 4.4um, cladding 125um
- 工作波长780–970um,适用绿光 Working wavelength 780-970um. suitable for green light
- 数值孔径NA:0.13 Numerical aperture NA:0.13

技术参数表 Technical Parameter:

参数	Parameter	unit	Index
型号	Item		780-HP
工作波长(一般情况下)	Operation wavelength	Nm	780-970
MFD @ 850nm (1/e2 fit-近场)	MFD @850nm	um	5.0±0.5
市的原市二阶模式截止波长	Second mode cutoff wavelength	nm	730±30
衰减@ 780nm(一般情况下)	Attenuation @780nm	dB/km	4
衰减@ 850nm	Attenuation @850nm	dB/km	<3.5
数值孔径(NA)	Fiber numerical aperture (NA)		0.13
弯曲损耗	Bending Loss	dB	0.001
(780nm, 100圈,13mm半径)	(780nm, 100 turns , diameter:13mm)		
弯曲半径(@780nm,每100turns	Bending radius (@780nm ,100turns ,		Much less than LTBR
损耗0.05dB)普通情况下	Loss bending :0.05db))		
包层直径	Cladding diameter	um	125±1.5
涂覆层直径	Coating diameter	um	245±15
纤芯/包层同心度偏差	Coating concentricity	um	≤5
包层/涂覆层偏差	Core cladding deviation	um	≤0.5
强度测试水平	Strength test level	kpsi	≥200（1.4GN/m2)
涂覆层材料	Coating material		UV Curved ,Dual Acrylate
工作温度	Working temperature	℃	-55~+85
短期弯曲半径	Short bending radius	mm	≥6
长期弯曲半径	Long bending radius	mm	≥13

3.6um单模HP–980 近红外通信光纤
3. 6um SM HP-980 Near-Infrared Communication Fiber

产品特性 Characteristics:

- 严格的机械性能和光学性能公差––适合于批量生产，提升效率降低成本。
- 批次一致性好––降低熔接损耗，保证器件的持续性高性能。
- 更高的强度测试水平和80um 包层设计––保证器件长寿命工作，小尺寸封装。

- Strict mechanical properties and optical performance tolerances - suitable for mass production, increase efficiency and reduce costs.
- Good batch consistency-reduce weld loss and ensure the sustainability of devices with high performance.
- higer strength test level and 80um cladding design-ensures long life operation of devices, small size packaging.

应用领域 Applications:

- 泵浦激光二极管尾纤 Pump laser diode tail fiber
- 光纤耦合器 fibre optic coupler
- 城域网器件 Metropolitan area network device
- 小封装光纤器件 Small package optical fiber device
- 特殊应用等 Special application etc

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径3.6um，包层125um Core diameter 3.6um, cladding 125um.
- 工作波长980–1600um operation wavelength 980-1600 um.
- 数值孔径NA:0.17–0.20 Numerical aperture NA:0.17-0.20.

技术参数表 Technical Parameter:

参数	Parameter	unit	Index		
型号	Item		980-HP	980-HP-80	980M-HP-80
工作波长(一般情况下)	Operation wavelength	nm	980-1600	980-1600	980-1600
MFD @ 980nm	MFD@980nm	um	4.2±0.5	4.2±0.5	4.2±0.3
MFD @ 1550nm	MFD@1550nm	um	6.8±0.5	6.8±0.5	N/A
二阶模式截止波长	Second mode cutoff wavelength	nm	920±30	920±30	930±30
衰减@980nm	Attenuation @980nm	Db/km	<3.5	<3.5	<3.0
数值孔径(NA)	Fiber numerical aperture (NA)	NA	0.2	0.2	0.17
弯曲损耗(980nm, 100圈@LTBR)	Bending Loss (980nm., 100turns, @LTBR)	dB	0.001	0.001	0.001
弯曲半径(@98Onm,每100turns	Bending Radius (@980nm, 100turns ,		Much less than LTBR		
损耗0.05dB)普通情况下	bending loss:0.05db)				
弯曲半径(@1550nm,每1 00turns	Bending Radius (@1550nm, 100turns ,	mm	15	15	40
损耗0.05dB)普通情况下	bending loss:0.05db				
包层直径	Cladding diameter	um	125±1.5	80±2	80±2
涂覆层直径	Coating diameter	um	245±10	165±10	165±10
纤芯/包层同心度偏差	Coating concentricity	um	≤0.5		
包层/涂覆层偏差	Core cladding deviation	um	≤5		
强度测试水平	Strength test level	kpsi	≥200 (1.4GN/m2)		
涂覆层材料	Coating material		UV Curved Dual Acrylate		
工作温度	Working temperature	℃	-55~+85		
短期弯曲半径	Short bending radius	mm	≤6	≤4	≤4
长期弯曲半径	Long bending radius	mm	≥13	≥9	≥9

3.5um单模Corning HI 980近红外通信光纤
3.5um SM HI 980 near infrared communication fiber

产品特性 Characteristics:

- 良好的机械强度
- 超低弯曲损耗
- 低过剩损耗
- 低插入损耗
- 优秀的几何特性

- Good mechanical strength
- Ultra-low bending loss
- Low excess loss
- Low insertion loss
- Excellent geometric properties

应用领域 Applications:

- 弯曲不敏感尾纤
- 优质的 WDM 耦合器，掺铒光纤放大器
- 合束器
- CATV 耦合器
- 弯曲半径较小的组件
- 对 C 波段和 L 波段低损耗

- Bending insensitive tail fiber
- High quality WDM coupler, erbium-doped fiber amplifier
- Beam combiner
- CATV coupler
- Component with smaller bending radius
- Low loss in band C and band L

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径3.5um，包层125um Core diameter 3.5um, cladding 125um
- 工作波长980–1600um, Operation wavelength 980-1600 um.
- 数值孔径NA:0.21 Numerical aperture NA:0.21

技术参数表 Technical Parameter:

参数	Parameter	Index
工作波长范围	Operation wavelength	>980nm
中心数值孔径	Central numerical aperture	0.22
模场直径	MFD	4.0±0.3@980nm 6.3±0.3@1550nm
截止波长	Cut off wavelength	930±40nm
中心衰减	Central attenuation	≤2.5@980nm,≤1.0@1550nm
包层直径	Cladding diameter	125±0.5
内径	Internal diameter	3.4u
涂覆层直径	Coating diameter	245±10um
纤芯/包层补偿	Core cladding compensation	≤0.3um
工作温度范围	Operation wavelength	–60~85℃
强度测试水平	Strength test level	100 or 200 kpsi
波导弯曲损耗	Wave guide bending loss	≤0.01 (@20nm O.D 1550nm) (dB/turn)
纤芯折射率	Core refractive index	1472@651nm
标准长度	Length	500m , 1KM , 2KM , 5KM, 10KM

5.3um单模Corning HI 1060近红外通信光纤
5.3um SM Corning HI 1060 near infrared communication fiber

产品特性 Characteristics:

- 良好的机械强度
- 超低弯曲损耗
- 低过剩损耗
- 低插入损耗
- 优秀的几何特性

- Good mechanical strength
- Ultra-low bending loss
- Low excess loss
- Low insertion loss
- Excellent geometric properties

应用领域 Applications:

- 弯曲不敏感尾纤
- 优质的 WDM 耦合器，掺铒光纤放大器
- 合束器
- CATV 耦合器
- 弯曲半径较小的组件
- 对 C 波段和 L 波段低损耗

- Bending insensitive tail fiber
- High quality WDM coupler, erbium-doped fiber amplifier
- Beam combiner
- CATV coupler
- Component with smaller bending radius
- Low loss in band C and band L

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径5.3um，包层125um Core diameter 5.3um, cladding 125um
- 工作波长980–1600um， Operation wavelength 980-1600 um.
- 数值孔径NA:0.22 Numerical aperture NA:0.22

技术参数表 Technical Parameter:

参数	Parameter	Index
工作波长范围	Operation wavelength	>980nm
中心数值孔径	Central numerical aperture	0.22
模场直径	MFD	4.0±0.3@980nm 6.3±0.3@1550nm
截止波长	Cut off wavelength	930±40nm
中心衰减	Central attenuation	≤2.5@980nm,≤1.0@1550nm
包层直径	Cladding diameter	125±0.5
内径	Internal diameter	3.4u
涂覆层直径	Coating diameter	245±10um
纤芯/包层补偿	Core cladding compensation	≤0.3um
工作温度范围	Operation wavelength	-60~85℃
强度测试水平	Strength test level	100 or 200 kpsi
波导弯曲损耗	Wave guide bending loss	≤0.01 (@20nm O.D 1550nm) (dB/turn)
纤芯折射率	Core refractive index	1472@651nm
标准长度	Length	500m , 1KM , 2KM , 5KM, 10KM

5.4um 单模Fibercore 1250(5.4/80)弯曲不敏感单模光纤
5.4um SM Fibercore 1250 (5.4/80) bending insensitive single mode fiber

产品特性 Characteristics:

- 125/245μm 光纤适用于普通单模光传输
- 80/170μm 适用于可靠性高，有小型化要求的电信器件
- 大数值孔径，增强弯曲不敏感性
- 掺锗浓度高，光敏性强，可制作光栅

- 125/245μm Optical Fiber is suitable for single Mode Optical Transmission
- 80/170 μ m is suitable for telecommunication devices with high reliability and miniaturization
- Large numerical aperture, enhanced bending insensitivity
- High concentration of germanium, strong Guang Min, can be used to fabricate gratings.

应用领域 Applications:

- 水听器/地震检波器
- 遥测
- 下行光纤
- 光纤光栅
- 分布式光纤测温/光纤声学传感
- 激光二极管尾纤
- 生物医学探针
- 耦合器

- Hydrophone / geophone
- Telemetry
- Downlink fiber
- Fiber grating
- Distributed Optical Fiber temperature Measurement / Optical Fiber Acoustic Sensor
- Laser diode tail fiber
- Biomedical probe
- coupler

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径5.4um，包层80um Core diameter 5.4 um, cladding 80um
- 工作波长1310–1550um，Operation wavelength 1310-1550um,
- 数值孔径NA:0.19–0.21 Numerical aperture NA:0.19-0.21

技术参数表 Technical Parameter:

工作波长	Operation wavelength	1310-1550nm
截止波长	Cutoff wavelength	1150-1250nm
数值孔径	Fiber numerical aperture (NA)	0.91-0.21
模场直径	MFD	5.0-5.7um@1310nm
衰减	Attenuation	≤1.0dB/km@1310nm
验证测试	Strength test level	1%, 2% or 3% (100,200 or 300 kpsi)
包层直径	Cladding diameter	80±1um
芯层包层同心度	Core cladding compensation	≤0.50um
涂层直径	Coating diameter	170±5um
涂层类型	Coating material	Bisacrylates
工作温度	Operation temperature	-55~+85 ℃

9um 单模Fibercore 1250(9/80)单模光纤
9um SM Fibercore 1250(9/80)single mode fiber

产品特性 Characteristics:

- 125/245μm 光纤适用于普通单模光传输
- 80/170μm 适用于可靠性高，有小型化要求的电信器件
- 大数值孔径，增强弯曲不敏感性
- 掺锗浓度高，光敏性强，可制作光栅
- 125/245μm Optical Fiber is suitable for single Mode Optical Transmission
- 80/170 μ m is suitable for telecommunication devices with high reliability and miniaturization
- Large numerical aperture, enhanced bending insensitivity
- High concentration of germanium, strong Guang Min, can be used to fabricate gratings.

应用领域 Applications:

- 水听器/地震检波器
- 遥测
- 下行光纤
- 光纤光栅
- 分布式光纤测温/光纤声学传感
- 激光二极管尾纤
- 生物医学探针
- 耦合器
- Hydrophone / geophone
- Telemetry
- Downlink fiber
- Fiber grating
- Distributed Optical Fiber temperature Measurement / Optical Fiber Acoustic Sensor
- Laser diode tail fiber
- Biomedical probe
- coupler

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径5.4um，包层80um Core diameter 5.4 um, cladding 80um
- 工作波长1310–1550um，Operation wavelength 1310-1550um,
- 数值孔径NA:0.19–0.21 Numerical aperture NA:0.19-0.21

技术参数表 Technical Parameter:

工作波长	Operation wavelength	1310-1550nm
截止波长	Cutoff wavelength	1150-1250nm
数值孔径	Fiber numerical aperture (NA)	0.91-0.21
模场直径	MFD	5.0-5.7um@1310nm
衰减	Attenuation	≤1.0dB/km@1310nm
验证测试	Strength test level	1%, 2% or 3% (100,200 or 300 kpsi)
包层直径	Cladding diameter	80±1um
芯层包层同心度	Core cladding compensation	≤0.50um
涂层直径	Coating diameter	170±5um
涂层类型	Coating material	Bisacrylates
工作温度	Operation temperature	-55~+85 ℃

单模Fibercore 1500弯曲不敏感单模光纤
SM Fibercore 1500 bending insensitive single mode fiber

产品特性 Characteristics:

- 光纤适用于普通单模光传输
- 适用于可靠性高，有小型化要求的电信器件
- 大数值孔径，增强弯曲不敏感性
- 掺锗浓度高，光敏性强，可制作光
- Suitable for single Mode Optical Transmission
- Suitable for telecommunication devices with high reliability and miniaturization
- Large numerical aperture, enhanced bending insensitivity
- High concentration of germanium, strong light sensitivity

应用领域 Applications:

- 水听器/地震检波器
- 遥测
- 下行光纤
- 光纤光栅
- 分布式光纤测温/光纤声学传感
- 激光二极管尾纤
- 生物医学探针
- 耦合器
- Hydrophone / geophone
- Telemetry
- Downlink fiber
- Fiber grating
- Distributed Optical Fiber temperature Measurement / Optical Fiber Acoustic Sensor
- Laser diode tail fiber
- Biomedical probe
- coupler

几何&光学特性 Geometry & optical characteristics:

- 纤芯直径4.2/5.3/6.4/7.8/9.0多种芯径可选um，包层50/80/90um多种包层可选
- 工作波长1520–1650um,
- 数值孔径NA:0.29–0.31
- Core diameter 4.2 / 5.3 / 6.4 / 7.8 / 9.0 core diameter optional, blanket 50 / 80 / 90um multiple cladding optional
- Operation wavelength 1520-1650um
- Numerical aperture NA:0.29-0.31

技术参数表 Technical Parameter:

工作波长	Operation wavelength	1520-1650nm
截止波长	Cutoff wavelength	1350-1520nm
数值孔径	Fiber numerical aperture (NA)	0.29-0.31
模场直径	MFD	4.0-4.5um@1550nm
衰减	Attenuation	≤2.0dB/km@1550nm
验证测试	Strength test level	1%, 2% or 3% (100,200 or 300 kpsi)
包层直径	Cladding diameter	50±1um
芯层包层同心度	Core cladding compensation	≤0.50um
涂层直径	Coating diameter	110±6um
涂层类型	Coating material	Monoacrylate
工作温度	Operation temperature	-55~+85 ℃

阶跃式多模高水峰紫外光优化石英光纤(BGUV)
Step Index High-OH Ultraviolet Light Optimized Fiber(BGUV)

产品特性 Characteristics:

- 光纤适用于紫外光谱分析以及紫外光传输
- High–OH高水峰，高羟基
- 包层有耐高温 PI聚酰亚胺（Polyimide），AC聚丙烯腈(Acrylate)两种不同材料可选
- 掺氟玻璃包层的石英纤

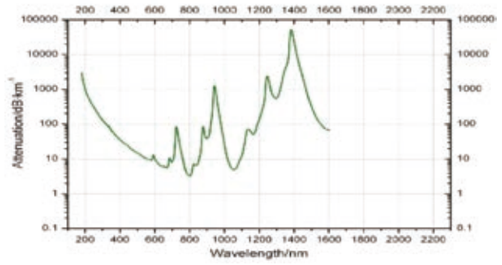
- Suitable for ultraviolet spectrum analysis and ultraviolet light transmission.
- High water peak of high-oh.
- Clad with high temperature resistance pi polyimide polyimide polyacrylic acid polyacrylonitrile acrylic two different materials are available.
- Fluorine-doped glass cladding quartz fiber.

应用领域 Applications:

- 紫外光谱，紫外光传输
- 医学器材，如UV紫外光消毒器
- 化学分析仪器，如污染分析仪器

- Ultraviolet spectrum
- Medical devices such as UV ultraviolet disinfector
- chemical analytical instrument, such as a pollution analysis instrument.

High–OH高水峰光纤衰减曲线
High-OH fiber attenuation curve



几何&光学特性 Geometry & optical characteristics:

- 多种芯径直径可选100/200/300/400/600/800/1000um。
- 包层与纤芯比例为1:1.1左右。
- NA数值孔径为0.22。

- Multiple core diameters can be chosen 100 / 200 / 300 / 400 / 600 / 800 / 1000 um
- The ratio of cladding to core is about 1: 1.1.
- Numerical aperture of NA 0.22

BGUV光纤选型参照表 BGUV Optical Fiber selection reference TableTe

规格（HIGH OH）	透过光谱范围（nm）	芯层直径（μm）	包层直径（μm）±2%	涂覆直径（μm）	温度范围（℃）
specification	Spectral range	±2% DOCC	cladding diameter	±3% DCW	temperature range
100/104-125-22-PI	200-1200	100	104	125	65-300
192/200-235-22-PI	200-1200	192	200	235	65-300
200/220-245-22-PI	200-1200	200	220	245	65-300
300/330-365-22-PI	200-1200	300	330	365	65-300
400/440-480-22-PI	200-1200	400	440	480	65-300
600/660-710-22-PI	200-1200	600	660	710	65-300
800/880-1100-22-AC	200-1200	800	880	1100	40-85
1000/11000-1300-22-AC	200-1200	1000	1100	1300	40-85

阶跃式多模低水峰近红外石英光纤(BGIR)
Step Index low-OH Visible-Near Infrared Spectrum Analysis(BGIR)

产品特性 Characteristics:

- 光纤适用于可见光至近红外光波段的光波传输。
- Low–OH低水峰，低羟基
- 包层有耐高温 PI聚酰亚胺（Polyimide），AC聚丙烯腈(Acrylate)两种不同材料可选
- 掺氟玻璃包层的石英纤

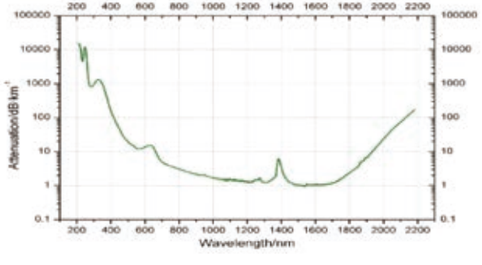
- Optical Fiber is suitable for Optical Wave Propagation from visible to near Infrared wavelength
- Low-OH low water peak
- Clad with high temperature resistance PI polyimide ,acrylic two different materials are available.
- Fluorine-doped glass cladding quartz fiber

应用领域 Applications:

- 光纤耦合二极管激光器
- 耦合器， 泵浦合束器
- 近红外光波传输

- Fiber coupled diode laser
- Coupler, pump beam holder
- Near infrared light wave transmission

Low–OH低水峰光纤衰减曲线
Low-OH fiber attenuation curve



几何&光学特性 Geometry & optical characteristics:

- 多种芯径直径可选100/200/300/400/600um。
- 包层与纤芯比例为1:1.1左右。
- NA数值孔径为0.22

- Multiple core diameters can be chosen 100 / 200 / 300 / 400 / 600 um
- The ratio of cladding to core is about 1: 1.1.
- Numerical aperture of NA 0.22

BGIR光纤选型参照表 BGIR Optical Fiber selection reference Ta

规格（HIGH OH）	透过光谱范围（nm）	芯层直径（μm）	包层直径（μm）±2%	涂覆直径（μm）	温度范围（℃）
specification	Spectral range	±2% DOCC	cladding diameter	±3% DCW	temperature range
100/110-125-22-PI	400-2500	100	110	125	65-300
192/200-235-22-PI	400-2500	192	200	235	65-300
200/220-245-22-PI	400-2500	200	220	245	65-300
400/440-480-22-PI	400-2500	400	440	480	65-300
600/660-710-22-PI	400-2500	600	660	710	65-300

阶跃式多模塑料包层高数值孔径光纤(BGHP)
Step Index Plastic Cladding Hight Numerical Aperture(BGHP)

产品特性 Characteristics:

- 低羟基硬包层石英多模光纤具有良好的性能和透射率。
- 硬质塑料包层。
- 较大的数值孔径，可接受更广角度的入光。

- Low hydroxyl hard cladding quartz multimode fiber has good performance and transmittance.
- Rigid plastic cladding.
- Larger numerical aperture, can accept a wider angle of light.

应用领域 Applications:

- 光谱分析、光遗传学和医学诊断
- 光纤照明，光纤测温，中距离通信
- 高功率能量激光

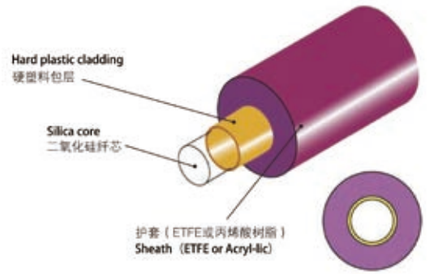
- Spectral analysis, photo genetics and medical diagnosis
- Optical fiber lighting, optical fiber temperature measurement, medium distance communication
- High power energy laser

几何&光学特性 Geometry & optical characteristics:

- 多种芯径直径可选100/200/300/400/600/800/1000um。
- 包层与纤芯比例为1:1.1左右。
- NA数值孔径为0.37–0.39

- Multiple core diameters can be chosen 100 / 200 / 300 / 400 / 600 / 800 / 1000 um
- The ratio of cladding to core is about 1: 1.1.
- Numerical aperture NA 0.37-0.39

BGHP光纤结构示意图
BGHP Optical fiber structure



BGHP光纤选型参照表 BGHP Optical fiber type reference table

芯径/μ±2% core diameter	200	300	400	600	1000
包层直径/μm±2% cladding diameter	230	330	430	630	1100
涂覆材料 coated material	Tefzel	Tefzel	Tefzel	Tefzel	Tefzel
涂覆直径/μm±3% DCW	500	650	730	1000	1400
最小弯曲半径/nm minimum bend radius	<60D(D+core)				
数值孔径/NA±0.02 numerical aperture	0.37				
耐温范围/℃ temperature range	40–85				
工作波长/nm operating wavelength	300–1800				

熊猫型保偏光纤(PMF)
Panda Polarization-maintaining Fiber(PMF)

产品特性 Characteristics:

- 保偏性能优异。
- 良好的几何均匀性以及较低衰减值。
- 双紫外涂
- 覆层以及紧套结构，稳定性和可靠性更高。

- Excellent polarization maintenance performance.
- Good geometric uniformity and low attenuation.
- Double purple outer coating and tight sleeve structure, higher stability and reliability

应用领域 Applications:

- DWDM、EDFA等光纤通信系统
- 光纤陀螺，光纤水听器等偏振敏感器件
- 激光器尾纤器件

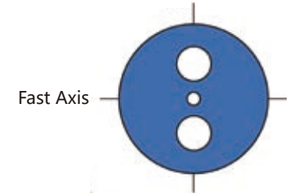
- Optical fiber communication system DWDM ,EDFA .
- Fiber optic gyroscope, fiber optic hydrophone and other polarization-sensitive devices
- Laser tail fiber device

Slow Axos

几何&光学特性 Geometry & optical characteristics:

- 可以提供850–1550nm等多个不同通信波段的光纤型号
- 拍长2.8–4.5mm
- 芯径5.5–9.8um，包层125um

- Can provide 850-1550nm and other different communication bands of optical fiber models
- 2.8-4.5mm
- Core diameter 5.5-9.8 um, cladding 125um



熊猫型保偏光纤PMF光纤选型参数表
Panda Type Polarization-maintaining Fiber PMF Optical Fiber selection Parameter Table

型号Item	工作波长Wavelength	模场直径MFD	拍长	Core &cladding diameter
PM 980 400	980nm	6.6um	≤2.8um	125/400um
PM980 245	980nm	6.6um	≤2.8um	125/245um
PM 1310 400	1310nm	9.3um	≤3.8um	125/40um
PM1310 245	1310nm	9.3um	≤3.8um	125/245um
PM 1310 Sensor	1310nm	5.5um	≤3.0um	125/245um
PM 14XX 400	1400-1490nm	9.8um	≤4.2um	125/245um
PM 14XX 245	1400-1490nm	9.8um	≤4.2um	125/400um
PM 1550 400	1550nm	10.5um	≤4.5um	125/400um
PM 1550 245	1550nm	10.5um	≤4.5um	125/245um
PM RD 850	850um	5.5-7.0um	≤3.0um	125/245um
PM RD 1310	1310nm	6.0-8.0um	≤3.0um	125/245um
PM RD 1550	1550nm	6.0-8.0um	≤3.0um	125/245um

Fiber Optic Patch Cord
光纤跳线系列

前言：光纤跳线尾纤选型指南
Guide information

Step1

选择光缆型号 Cable

客户根据自己实际使用的环境和情况决定使用哪种型号的光缆，比如是在机房内部，室内局间布线的环境中，就选择普通的室内光缆，是在楼道，小区户外等环境中，需要光缆有一定强度并防鼠咬的，就选用螺旋铠装光缆，是在FTTH入户布线中，室内竖井，管道，室外短距离架空的环境中，就选用蝶形皮线光缆。

How to choose the suitable cable? For example: In data central room for interior wiring, the indoor simplex cable is best choice.In the corrido or residence,we need strong cable with rat-bite protected cable, so spiral armored cable is best choice. In the FTTH project ,indoor manhole,pipeline,and outdoor aerial for short length. FTTH Drop cable is best choice

室内单芯光缆
Indoor simplex cable

螺旋铠装光缆
Armored cable

室内双芯光缆
Indoor duplex cable

皮线入户光缆
FTTH Drop cable

室内多芯束装光缆
Indoor multi fiber breakout cable

基站拉远光缆
CPRI base station cable

室内多芯分支光缆
Indoor multifiber distribution cable

军用野战光缆
Military tactical cable

室内多芯迷你缆
Indoor multi-fiber mini cable

室外防水尾缆
Outdoor waterproof cable

Step 2

选择光纤型号 Fiber

客户根据自己的有源器件的光源，和链路环境中的传输波段，传输速率，选择合适的纤芯，比如使用波段在1310/1490/1550nm的，就使用单模9/125um光纤，使用波段在850nm的，传输速率为千兆的，使用OM1 62.5/125um或者OM2 50/125um的千兆多模光纤，使用波段在850nm的，传输速率为万兆的，根据传输距离，选择使OM3–150,OM3–30.OM4–550,或者OM5–550光纤。

How to choose suitable fiber? For example:If the wavelengths are 1310/1490/1550nm, the SM 9/125um fiber is best choice. If 850nm with 1Gps,the OM1 or OM2 are available. If 850nm with 10Gps, the OM3-150,OM3-300,OM4-550 or OM5-500 are optional

Step 3

选择连接器型号 Connectors

客户根据自己要连接的设备端口的型号，选择对应型号的连接器，如SC端口的收发器上使用SC连接器型号的跳线，SFP光模块端口上使用LC连接器型号的跳线等，室外环境中，设备的端口有防水性能要求的，可选用相应的防水光纤连接器，如ODC,ODVA,PDLC,J599,Fullaxs等。

How to choose the suitable connector ? It depends on the equipment port. For example: In the media converter with SC Port, we have to use SC connector. Connecting SFP Module, we have to use LC Connector, For outdoor waterproof terminal, we have to choose waterproof connector, such as ODC,ODVA,PDLC,J599,FullAXS..etc

Step 4

确定跳线长度 Length

客户根据自己实际使用的情况，大致判断出自己要使用的线材长度。客户根据自己实际使用的情况，大致判断出自己要使用的线材长度。

How to choose the length? It depends on the distance of two connecting points.

5 M　10 M　50 M　100 M

Step 5

确定包装明细 Packing

客户根据自己的包装要求，指定厂家定制相应的包装明细规格，如光缆印字明细，标签明细，包装袋规格，纸箱规格等等。

How to choose packing way? You can choose IHfiber standard packing, or your specified packing. Such as, cable printing,label design,packing bag size,carton size...etc

确认光缆印字明细 Printing

确认包装袋规格
Packing bag size

确认标签规格
Label design

确认包装规格
Carton size

01 Fiber Optic Indoor Patch Cord
常规室内单双芯布线跳线

常规室内布线光纤跳线，是使用常规室内布线光缆，两端加装指定型号的光纤连接器而制作的通信光纤连接线材。

Indoor patch cord is current normal one. it is used to attach one device to another for signal routing.

应用 Application:

- 数据传输；
- 电信网；
- 测试设备；
- 宽带网；
- 光纤CATV；
- 室内局端布线；
- Data transmission.
- Telecommunication,
- Testing equipment.
- WBN,
- Optical fiber CATV,
- LAN indoor/outdoor.

产品特性 Feature:

- PC,UPC,APC多处研磨方案；
- 高可靠性与稳定性；
- 高回波反射损耗，低插入损耗；
- 插芯端面400倍电子检测；
- 良好的重复性和互换性；
- 单模或多模光纤任选；
- PC UPC APC polishing optional
- High credibility and stability
- Low insertion loss, high return loss
- 400X microscope inspecting.
- Good in repeatability and exchangeability
- Singlemode or Multimode fiber optional

产品分类 Classification:

该系列的跳线有多种分类方式，如该系列的跳线可根据两端光纤连接器型号分类，SC, FC, LC, ST, MU, DIN, D4, E2000, LX.5, MTRJ, VF–45光纤跳线，SC–FC等转接型光纤跳线

Patch cords are classified by connectors at both ends,there are SC,FC,LC,ST,MU,DIN,D4,E2000,LX.5,MTRJ,VF-45, and SC-FC..etc hybrid patch cords

FC-FC

SC-SC

LC-LC

ST-ST

LSH-LSH

也可根据纤芯型号分类，如单模光纤跳线，千兆OM1 OM2多模光纤跳线，万兆OM3 OM4多模光纤跳线等

Patch cords are classified by fibers, there are SM, OM1,OM2,OM3,OM4 patch cords.

SM 9/125um

OM1 62.5/125um

OM2 50/125um

OM3 50/125um

OM4 50/125um

OM5 50/125um

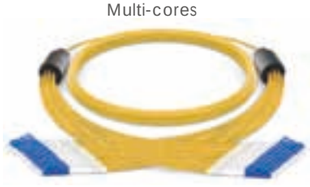
还可根据纤芯芯数分类，如单芯光纤跳线，双芯光纤跳线，大芯数分支光纤跳线，大芯数束装光纤跳线

Patch cords are classified by cores,there are SX,DX,multi-cores.

SX 单芯

DX 双芯

大芯数束装分支
Multi-cores



常规室内布线光纤跳线订货信息表 Order information:

A端连接器 A connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5……
B端连接器 B Connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5……
纤芯型号 Fiber model	SM	G652D.G657A1.G657A2.G657B3.G655
	MM	OM1.OM2.OM3-150.OM3-300.OM4-550.OM5
光缆直径 Cable Dia		Φ0.9mm.Φ2.0mm.Φ3.0mm……
加强件材料 Strength member		国产芳纶，进口芳纶杜邦凯夫拉 China aramid yarn, Dupont Kelvar yarn.
外皮材料 Jacket		PVC,LSZH,OFNP,OFNR.PE.TPU
纤芯芯数 Core number		单芯SX,双芯DX,多芯Multi–core
跳线长度 Length		1.2.3.5.10m……(客户指定长度optional)

选型示例 Example:

- SC/UPC-SC/UPC SM G652D φ3.0mm LSZH外皮 进口纱 双芯 10M
- SC/UPC-SC/UPC SM G652D φ3.0mm LSZH Kelvar yarn DX 10M

02 Fiber Optic Armored Patch Cord
螺旋铠软铠装跳线

铠装光纤跳线是一种新型的光纤跳线，可直接铺设在机房及各种恶劣环境中，无需使用保护套管，可以降低施工成本，同时也大大提升了网路维护的方便性。铠装光纤跳线与传统光纤跳线的最大区别在于它针对光纤易折断、易被损坏的缺点，特别设计生产一种细小的可挠性不锈钢套管来保护光纤，再在套管外加上阻燃PVC或者LSZH被覆，以达到防火防潮防鼠咬等功能。

Armored patch cord is current popular patch cord.it can be laid in all kinds of environmental extremes. It is used without protection tube which saves space and is quite convenient for maintenance. The key advantage is that it has the construction including small stainless steel tube which protects optical fiber and provide better security for the whole system. And coating with PVC or LSZH jacket. To be a fire resistance,moisture resistance, and rodent resistance cable!

产品分类 Classification:

铠装光纤跳线由铠装光缆和光纤接头两部分组成。所以在区分铠装光纤跳线的时候，从铠装光缆的类型和光纤接头类型来进行命名和区分。

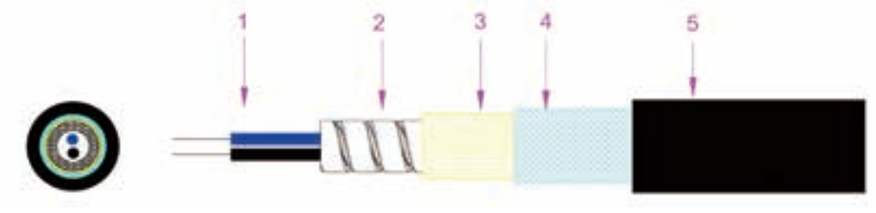
Armored patch cord is assemblied by armored cable and fiber connectors.So we classified by armored cable types and connector types.

常用铠装光缆类型 Armored cable types:

按照光缆的结构，分为单铠和双铠两种结构。

According to cable structure, there are single armored and double armored types.

室内铠装光缆结构 Construction of indoor armored cable:



1紧包光纤+2不锈钢软管（起抗压、抗弯曲、防鼠咬的作用）+3芳纶（起抗拉作用）+4不锈钢编织丝（起抗扭的作用）+5外护套（通常使用PVC，根据不同作用还有阻燃PVC、LSZH、TPU、特氟龙、硅胶管等）

1.Tight buffer+2 stainless tube (crush/bend/rodent resistance)+3 Kevlar (tension)+stainless braid (preventing twisting)+5 outer jacket (PVC, LSZH, TPU,Teflon,silicone tube.etc)

单铠指不含不锈钢编织网只有螺旋铠管的光缆，双铠指包含了不锈钢编织网和螺旋铠管的光缆。

Single armor is only with stainless tube, no braid. Double armor with stainless tube, and braid both.

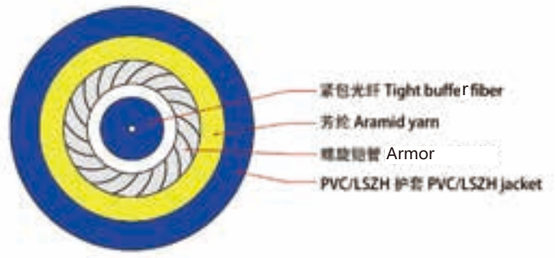
不带编织铠装光缆结构图

带编织铠装光缆结构图

按照光纤芯数，分为单管单芯，单管多芯，多管多芯（常用为双管双芯，少见其他类型）。
如下分别为几种不同芯数类型铠装光缆结构示意图；

According to the fiber cores.it's classified by simplex.,1tube N fiber.,N tube N fiber.
Here for some construction for different cores.

单管单芯铠装光缆
Simplex armored cable



单管单芯铠装跳线
Simplex armored patch cord

单管多芯铠装光缆
Tube N fiber cable

单管多芯铠装跳线
Tube N fiber patch cord

多管多芯铠装光缆
N tube N fiber cable

单管单芯铠装跳线
N tube N fiber patch cord

常规皮线光纤跳线订货信息表 Order information:

A端连接器型号 A connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5.....
B端连接器型号 B connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5.....
纤芯型号 Fiber model	单模SM	G652D.G657A1.G657A2.G657B3.G655
	多模MM	OM1.OM2.OM3-150.OM3-300.OM4-550.OM5
光缆结构 Cable structure		单管单芯，单管多芯，多管多芯 simplex, 1 tube N fibers, N tube N fibers
加强件材料 Strength member		芳纶+铠管，编织网+铠管，芳纶+编织网+铠管 Kevlar + armored tube ,Braid + armored tube.Kevlar + braid + armored tube
光缆外径与重量 Cable	外径 Diameter(mm)	3.0 4.0 5.0 6.0 7.0
	重量 Weight(g)	18 30 38 50 65
外皮材料 Jacket		PVC,LSZH,OFNP,OFNR
纤芯芯数 Core number		单芯SX,双芯DX，多芯multicore（客户指定芯数or customized）
跳线长度 Length		1.2.3.5.10m.....(客户指定长度 or customized）

选型示例 Example

- SC/UPC–SC/UPC SM G652D 单管2芯，芳纶+编织网+铠管，4.0mm.LSZH, 10M
- SC/UPC-SC/UPC SM G652D 1tube 2 fibers, Kelvar+braid+armored tube,4.0mm LSZH,10M

03 FTTH Drop Cabe Patch Cord
FTTH入户皮线跳线

皮线光纤跳线是一款专用用FTTH光纤入户终端的专用跳线，又名预制成端蝶形引入光缆。其特点是，采用蝶形皮线光缆，LSZH或者PVC外护套保护。两根平行FPR或镀锌钢丝加强件，提供足够拉力和抗压力。耐弯曲光纤，提供更大的带宽，增强网络传输特性。光缆重量轻，体积小，防雷，防鼠，和防水，以及独特的凹槽设计，方便接续安装和维护。

FTTH Drop patch cord is specialize for FTTH project. Also named pre-terminated bow drop cable. In the center of the cable is the optical communication unit, with the two parallel non-metical enhanced FRP/Metal/KFRP as the strength member, and surrounded with the LSZH/PVC jacket.To ensure strong tension and compressive resistance.

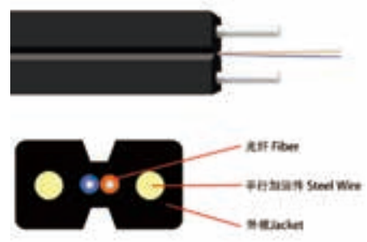
应用范围 Application:

室内局间布线 ，FTTH光纤入户，用户终端。竖井，楼宇布线。
Access terminals and drops, Fiber to The Home,manhole,building wiring.

产品分类 Classification:

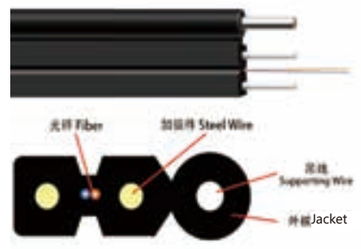
皮线光纤跳线的分类，根据光缆结构分为室内皮线光纤跳线，室外自承式皮线光纤跳线两种。

室内皮线光缆
Indoor drop cable



室内皮线跳线
Indoor drop patch cord

室外自承式皮线光缆
Outdoor self-support drop cable



室外自承式皮线跳线
Outdoor self-support drop patch cord

2芯分支型皮线跳线
2cores break-out drop patch cord

4芯分支型皮线跳线
4cores break-out drop patch cord

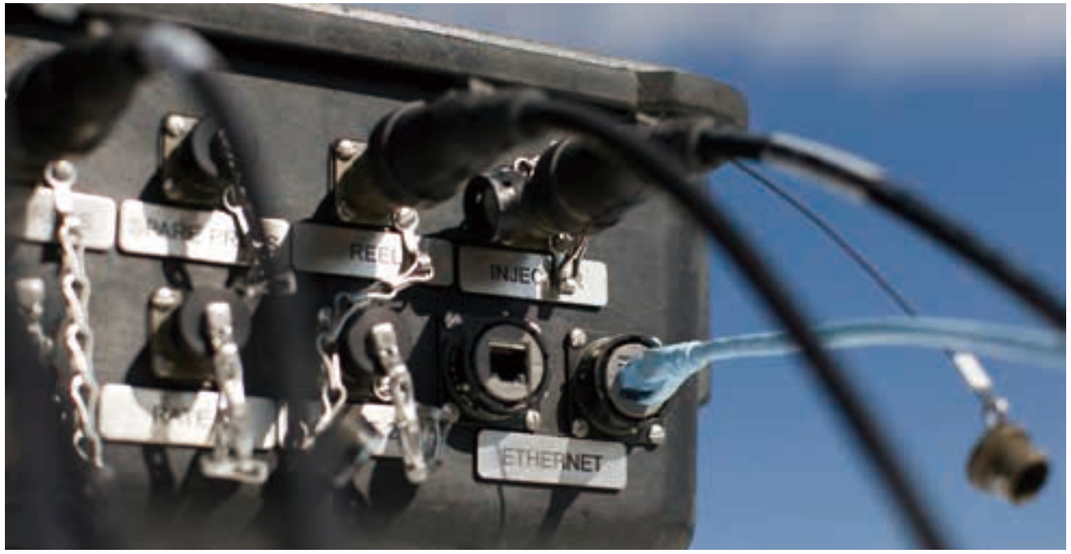
常规皮线光纤跳线订货信息表 Order information:

A端连接器型号 A connector		SC/UPC,SC/APC,FC/UPC,FC/APC
B端连接器型号 B connector		SC/UPC,SC/APC,FC/UPC,FC/APC
纤芯型号 Fiber model	单模SM	G652D.G657A1.G657A2.G657B3.G655
	多模MM	OM1.OM2.OM3-150.OM3-300.OM4-550.OM5
光缆型号 Cable types		室内非自承式，室外自承式 Indoor non-self support， Outdoor self-support
加强件材料 Strength member		0.45mm钢丝/0.45mm steel wire，0.45mm FRP/0.45mm FRP， 1.0mm钢丝/1.0mm steel wire
外皮材料 Jacket		PVC,LSZH,OFNP,OFNR
纤芯芯数 Core number		单芯SX,双芯DX，多芯multi-core（客户指定芯数or customized ）
跳线长度 Length		1.2.3.5.10m……(客户指定长度 or customized ）
颜色 Color		黑色Black/白色 White

选型示例 Example

· SC/UPC–SC/UPC SM G652D 室外自承式 FRP加强件 LSZH外被 单芯 10M,黑色
· SC/UPC-SC/UPC SMG652D Outdoor self-support FRP, LSZH,Simplex,10M.Black

04 FTTA CPRI Patch Cord
FTTA基站拉远跳线



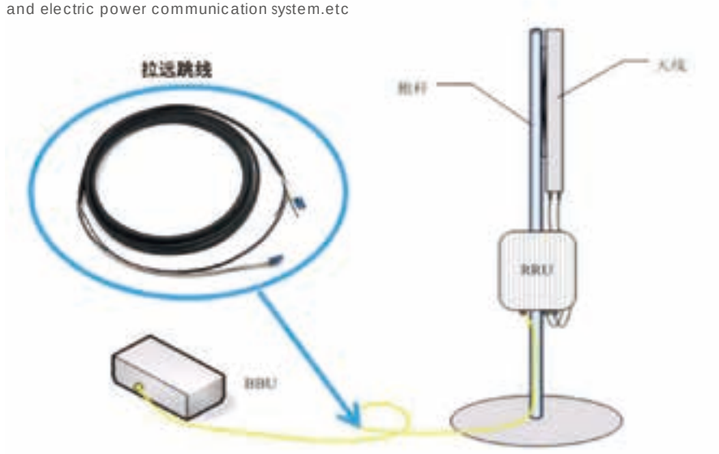
FTTA非铠装基站拉远光纤跳线，采用φ7.0mm LSZH黑色拉远光缆。两端以分支套铠的形式，加LC/SC/FC/ST的光纤连接器，部分应用环境中，对两边分支加头的部分，采用波纹管或者尼龙网拉环的形式进行保护和加强。

FTTA non-armored CPRI base station patch cord is assemblied by 7.0mm LSZH Black cable and breakout armored protection tube at both ends with fiber connectors, such as LC/SC/FC/ST..etc. For some special environment,we will use ruggedized pipe or nylon pulling eyes to protect breakout cables and connectors.,

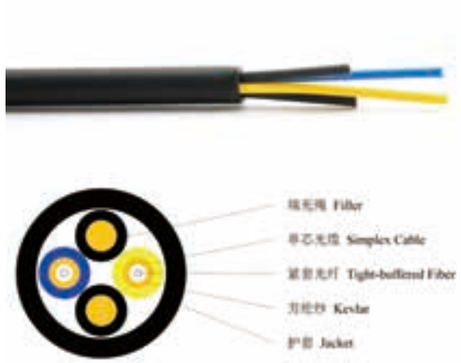
应用环境 Application:

FTTA室外基站拉远牵引，RRU到BBU端口互连，3G、4G、LTE以及分布式基站，电力通信系统等。

FTTA Outdoor base station access. RRU to BBU Connecting, 3G,4G, LTE and distributed base station, and electric power communication system.etc



拉远光缆结构 Cable structure:



产品分类 Classification:

FTTA非铠装基站拉远光纤跳线按照连接器型号不同分为FC.SC.LC.ST等

FTTA Non-armored CPRI base station patch cords with different connectors:FC,SC,LC,ST...etc.

FC-FC

LC-LC

SC-SC

ST-ST

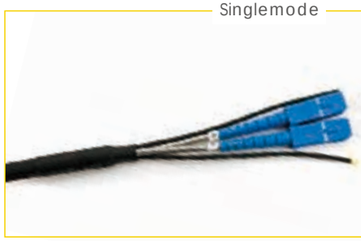
LC-SC

LC-FC

按照纤芯型号不同分为单模和多模拉远光纤跳线

FTTA Non-armored CPRI base station patch cord with different fiber model:Singlemode and Multimode.

Singlemode



Multimode

按照芯数不同分为2芯和4芯拉远光纤跳线

FTTA Non-armored CPRI base station patch cord with different cores: 2cores, 4cores, and more.

2芯
2cores

4芯
4cores

包装方式分为普通包装和盘式包装

FTTA Non-armored CPRI base station patch cord with different packing: standard packing, and reel packing.

普通包装
Standard packing

盘式包装
Reel packing

常规拉远光纤跳线订货信息表 Order information:

A端连接器型号 A connector		FC,SC,LC,ST,MU,DIN,D4.E2000.LX.5……
B端连接器型号 B connector		FC,SC,LC,ST,MU,DIN,D4.E2000.LX.5……
纤芯型号 Fiber model	单模SM	G652D.G657A1.G657A2.G657B3.G655
	多模MM	OM1.OM2.OM3-150.OM3-300.OM4-550.OM5
纤芯芯数 Core number		双芯，4芯，和多芯 /DX, DX,4Core and multi-core
光缆外径 Cable dia		4.8mm, 7.0mm,8.3mm,,,,,,
跳线长度 Length	1.2.3.5.10m…… （客户指定长度 or customized）	分支长度0.03/0.34M(或客户指定长度) Breakout length:0.03/0.34m (or customized)
包装方式 Packing		普通包装，盘式包装 standard packing, and reel packing

选型示例 Example:

- SC/UPC–SC/UPC SM G652D DX LSZH ϕ7.0mm 分支0.03/0.34M 普通包装10M
- SC/UPC-SC/UPC SM G652D DX LSZH φ7.0mm 0.03/0.34m, Standard packing10m.

05 Standard Multicore Bundle Distribution Patch Cord

常规多芯分束跳线

多芯分束光纤跳线，是指使用常规室内或者室外多芯光缆，分支后两端加装指定型号的光纤连接器而制作的通信光纤连接线材。

Multicore patch cord is assemblied by multicore indoor/outdoor cables and fiber connectors,

产品特性 Characteristics:

数据传输，
电信网，
测试设备，
宽带网，
光纤CATV,
室外或者室外局端布线

- Data transmission.
- Telecommunication,
- Testing equipment.
- WBN,
- Optical fiber CATV,
- LAN indoor/outdoor.

产品特性 Feature:

- PC,UPC,APC多处研磨方案
- 高可靠性与稳定性
- 高回波反射损耗，低插入损耗
- 插芯端面400倍电子检测
- 良好的重复性和互换性
- 单模或多模光纤任选

- PC UPC APC polishing optional
- High credibility and stability
- Low insertion loss, high return loss
- 400X microscope inspecting.
- Good in repeatability and exchangeability
- Singlemode or Multimode fiber optional

产品实物展示 Images:

12芯光纤跳线
12cores

24芯光纤跳线
24cores

72芯光纤跳线
72cores

144芯光纤跳线
144cores

常规室内布线光纤跳线订货信息表 Order information:

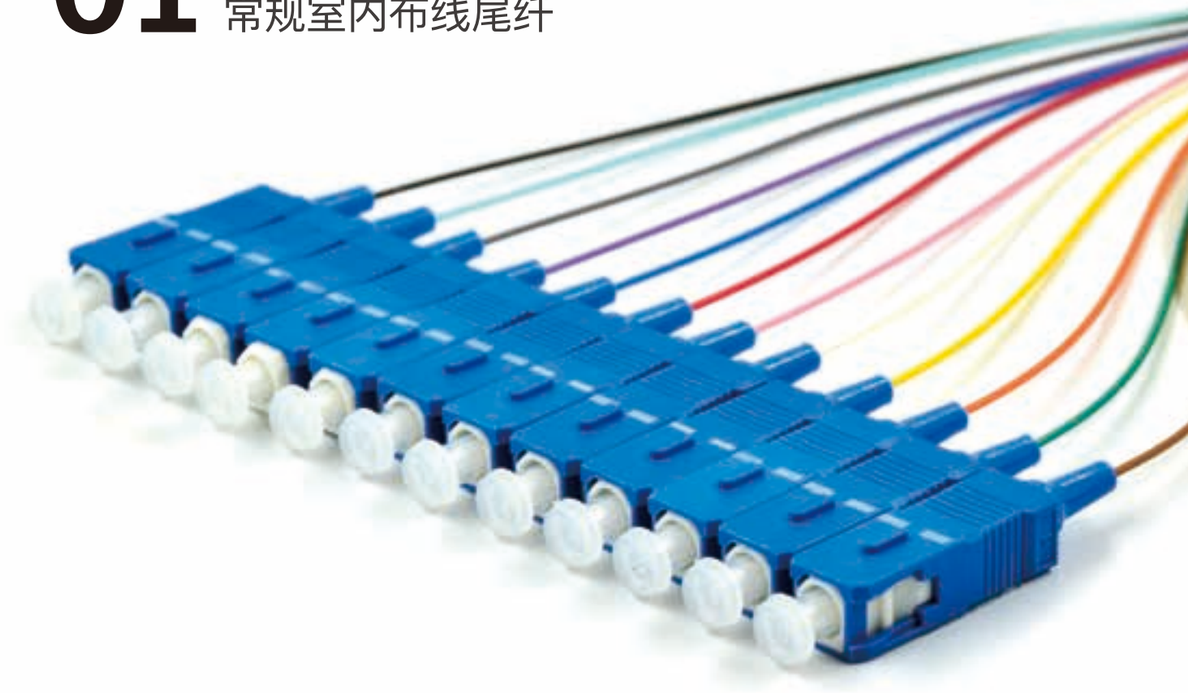
A端连接器 A connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5……		
B端连接器 B connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5……		
纤芯型号 Fiber model	SM	G652D.G657A1.G657A2.G657B3.G655		
	MM	OM1.OM2.OM3-150.OM3-300.OM4-550.OM5		
光缆型号 Cable types		Φ0.9mm.Φ2.0mm.Φ3.0mm……		
分支长度 Breakout length		客户指定长度（常规1M以下） Customized (Normally ≤1m)	分支出缆直径 Breakout diameter	常规/Normally Φ0.9mm. Φ2.0mm.Φ3.0mm
外皮材料 Jacket		PVC,LSZH,OFNP,OFNR.PE.TPU		
纤芯芯数 Core number		4.6.8.12.24.48.72.144（或者客户指定芯数/or customized）		
跳线长度 Length		1.2.3.5.10m……(客户指定长度/or customized）		

选型示例 Example:

- FC/UPC–FC/UPC SM G652D 室外GYXTW 12芯 分支0.5M 套φ2.0mm黑色空管 总长50M
- FC/UPC-FC/UPC SM G652D Outdoor GYXTW 12Core breakout 0.5M with 2.0mm black cable. 50M

Pigtail
光纤尾纤系列

01 Fiber Optic Indoor Pigtail
常规室内布线尾纤



常规室内布线尾纤，是指用于连接室内光纤和光纤耦合器的一个类似一半跳线的接头，它包括一个跳线接头和一段室内光纤。
Pigtail is the half of patch cord which is a fiber optic cable used to attach one device to another for signal routing.

应用 Application:

- 数据传输
- 电信网
- 测试设备
- 宽带网
- 光纤CATV
- 室内局端布线

- Data transmission
- Telecommunication
- Testing equipment
- WBN
- Optical fiber CATV
- LAN indoor/outdoor

产品特性 Feature:

- PC,UPC,APC多处研磨方案
- 高可靠性与稳定性
- 高回波反射损耗，低插入损耗
- 插芯端面400倍电子检测
- 良好的重复性和互换性
- 单模或多模光纤任选

- PC UPC APC polishing optional
- High credibility and stability
- Low insertion loss, high return loss
- 400X microscope inspecting.
- Good in repeatability and exchangeability
- Singlemode or Multimode fiber optional

产品分类 Classification:

常规室内布线尾纤可按照连接器的型号分类，分为FC,SC,LC,ST,DIN,D4,MU……等

Indoor fiber pigtails are classified by connectors,there are FC,SC,LC,ST,DIN,D4,MU..etc

LC光纤尾纤
LC Pigtail

SC光纤尾纤
SC Pigtail

ST光纤尾纤
ST Pigtail

FC光纤尾纤
FC Pigtail

按照光纤纤芯型号分类，可分为单模尾纤，千兆多模尾纤，万兆多模尾纤

It's classified by fiber model, there are SM, OM1,OM2,OM3,OM4 Pigtails

单模光纤尾纤
SM Pigtail

OM1/OM2千兆多模光尾纤
OM1&OM2 Pigtail

OM3万兆多模光纤尾纤
OM3 Pigtail

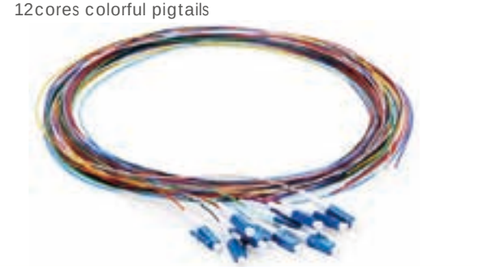
OM4万兆多模光纤尾纤
OM4 Pigtail

按照光缆的结构分类，可分为单芯尾纤，多芯散纤，多芯束装尾纤，多芯分支尾纤

It's classified by cable structure, there are simplex pigtail, multi-core pigtails,multicore bundle pigtail, multicore distribution pigtail

单芯尾纤
Simplex pigtail

12色散纤
12cores colorful pigtails



束装尾纤
multicore bundle pigtail

分支尾纤
Multicore distribution pigtail

常规拉远光纤跳线订货信息表 Order information:

连接器型号 Connector		FC,SC,LC,ST,MU,DIN,D4.E2000.MTRJ.SMA.LX.5……
纤芯型号 Fiber model	单模SM	G652D.G657A1.G657A2.G657B3.G655
	多模MM	OM1.OM2.OM3-150.OM3-300.OM4-550.OM5
光缆直径 Cable dia		Φ0.9mm.Φ2.0mm.Φ3.0mm……
光缆结构 Cable construction		单芯，多芯散纤，多芯束装，多芯分支 Simplex, multicore colorful,multicore bundle, multicore distribution
外皮材料 Jacket		PVC,LSZH,OFNP,OFNR.PE.TPU
纤芯芯数 Core number		单芯SX,双芯DX，多芯 multicore（4.6.8.10.12.24……）
尾纤长度 Length		1.2.3.5.10m……(客户指定长度/or customized)

选型示例 Example:

- SC/UPC SM G652D ϕ0.9mm LSZH外皮 单芯 1.5M
- SC/UPC SM G652D φ0.9mm LSZH,SX.1.5M

02 Fiber Outdoor Waterproof Pigtail
常规室外防水尾缆

室外防水尾缆，是指用于连接室外防水光缆GYJTA和光纤耦合器的一个类似一半跳线的接头，它包括一端跳线接头和一段GYJTA室外防水光缆。

Waterproof pigtail, is assemblied by a waterproof GYJTA cable and one side connectors.

产品特性 Feature:

室外防水尾缆主要用于野外光端机的接入，使用环境适应性强，一端带有光连接器，配有耐用防水接头。安装方便，可靠，能抵御野外各种恶劣的环境寿命长，外套韧性好，抗拉，接地良。

Waterproof fiber pigtail can be used in harsh environment. It is mainly used in outdoor connection of the optical transmitter.It's designed with a strengthened waterproof unit and armored outdoor PE jacketed cables. Installing easily and reliable, strong tension, and excellent toughness.

应用环境 Application:

光纤通信系统，电信网络，有线电视网络，局域网络，广域网，室外设备连接，恶劣环境中的安装调试，FTTX……等

Fiber telecommunication system. Telecommunication network, CATV,LANs,WANs,External equipment connecting,Installing and debugging at harsh environment.FTTX...etc

产品分类 Classification:

室外防水尾缆可按照连接器的型号分类，分为FC,SC,LC,ST……等

It's classified by connectors, there are FC,SC,LC,ST...etc

SC防水尾缆
SC Waterproof pigtail

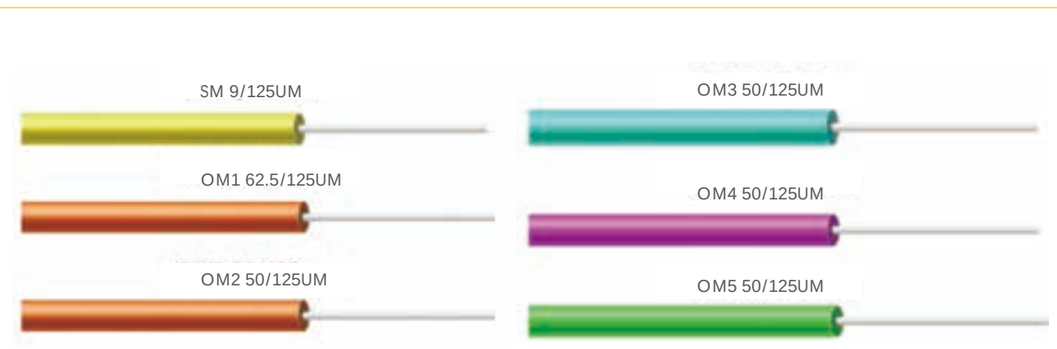
FC防水尾缆
FC Waterproof pigtail

LC防水尾缆
LC Waterproof pigtail

ST防水尾缆
ST Waterproof pigtail

按照光纤纤芯型号分类，可分为单模尾纤，千兆多模尾纤，万兆多模尾纤

It's classified by fiber model, there are SM,OM1,OM2,OM3,OM4



2芯防水尾缆
2core waterproof pigtail

4芯防水尾缆
4core waterproof pigtail

6芯防水尾缆
6core waterproof pigtail

12芯防水尾缆
12core waterproof pigtail

防水尾缆的防水接头材质，分铜质防水接头和铝质防水接头两种。
There are two types of waterproof connetor: Aluminum and Copper.

铜质防水接头
Copper waterproof connectors

铝质防水接头
Aluminum waterproof connectors

技术参数 Specifications

光纤型号 Fiber model	连接器型号 Connector	研磨类型 Polish	光纤芯数 Core number	光缆外径 Cablee dia	防水接头材料 Waterproof unit material	尾缆长度 Length
G652D	FC,SC,LC	UPC球面	1芯	Φ9.8mm	锌合金zinc alloy	1M
G657A1	,ST,MU,DIN,	APC斜面	2芯	φ10.8mm	铜合金copper alloy	2M
G657A2	E2000……等	APC台阶面	4芯	φ10.8mm		3M
G657B3			6芯			5M
G655			8芯			10M
OM1 62.5			12芯			……
OM2 50						客户指定长度
OM3 50						customized
OM4 50						