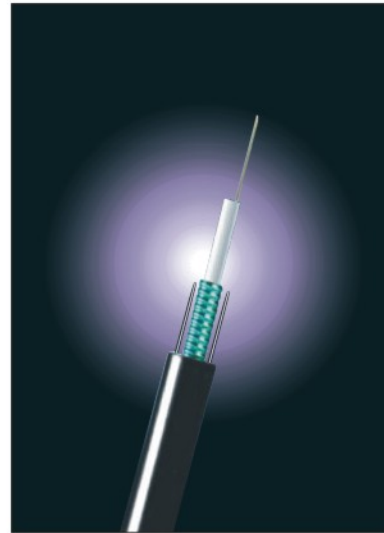


## 中心管式煤矿用阻燃光缆 (MGXTW) Unitube Mining Flame-retardant Cable

### 产品描述 Description

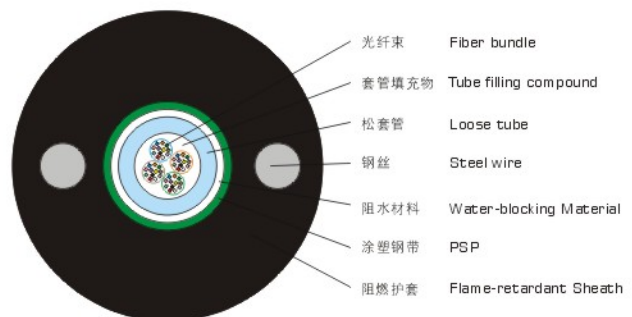
MGXTW光缆的结构是将250 μm光纤套入高模量材料制成的松套管中, 松套管内填充防水化合物。松套管外用一层双面涂塑钢带 (PSP) 纵包, 钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向阻水, 两侧放置两根平行钢丝后挤制阻燃护套成缆。

The fibers, 250 μm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with a flame-retardant sheath.



### 产品特点 Characteristics

- 具有很好的机械性能和温度特性  
 Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度  
 High strength loose tube that is hydrolysis resistant
- 管内充以特种油膏, 对光纤进行了关键性保护  
 Special tube filling compound ensure a critical protection of fiber
- 特种护套材料具有优异的阻燃性能  
 Special sheath material ensures excellent flame-retardant performance
- 良好的抗压性和柔软性  
 Crush resistance and flexibility
- 双面涂塑钢带 (PSP) 提高光缆的抗透潮能力  
 PSP enhancing moisture-proof
- 两根平行钢丝保证光缆的抗拉强度  
 Two parallel steel wires ensure tensile strength
- 直径小、重量轻、容易敷设  
 Small diameter, light weight and friendly installation
- 较长的交货长度  
 Long delivery length



光缆结构图  
 Cable Structure

### 产品标准 Standards

长飞上海公司MGXTW光缆符合YD/T 769-2003标准。  
 YOFC(SH) MGXTW cable complies with Standard YD/T 769-2003.

■ 光学特性 Optical Characteristics

		G.652	G.655	50 / 125 μm	62.5 / 125 μm
衰减 Attenuation (+20°C)	@ 850 nm			≤ 3.0 dB / km	≤ 3.0 dB / km
	@1300 nm			≤ 1.0 dB / km	≤ 1.0 dB / km
	@1310 nm	≤ 0.36 dB / km	≤ 0.40 dB / km		
	@1550 nm	≤ 0.22 dB / km	≤ 0.23 dB / km		
带宽 (A级) Bandwidth (Class A)	@ 850 nm			≥ 600 MHz·km	≥ 200 MHz·km
	@1300 nm			≥ 1200 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200 ± 0.015 NA	0.275 ± 0.015 NA
光缆截止波长 Cable Cut-off Wavelength λ <sub>cc</sub>		≤ 1260 nm	≤ 1450 nm		

■ 结构参数 Technical Parameters

光缆型号 Cable Type (以2纤递增) (Increased by 2 fibers)	光纤数 Fiber Count	光缆直径 Cable Diameter mm	光缆重量 Cable Weight kg/km	允许拉伸力 Tensile Strength 长期/短期 Long /Short term N	允许压扁力 Crush Resistance 长期/短期 Long/Short term N/100mm	弯曲半径 Bending Radius 静态/动态 Static/Dynamic mm
MGXTW-2~12Xn	2~12	10.6	152	600/1500	300/1000	100/200
MGXTW-2~12Xn	2~12	11.0	172	1000/3000	1000/3000	100/200
MGXTW-14~24Xn	14~24	13.0	215	1000/3000	1000/3000	100/200
MGXTW-26~36Xn	26~36	14.6	272	1000/3000	1000/3000	100/200
MGXTW-38~48Xn	38~48	15.6	306	1000/3000	1000/3000	100/200

储存、使用温度: -40°C 至 +70°C

Storage/Operating Temperature: -40°C to +70°C

订货信息 Order Information

MGXTW-□□  
1 2

① 芯数 Fiber Counts  
02~48

② 光纤类型 Fiber Type  
B1-G.652  
B1.3-G.652.D  
B4-G.655  
E1-EasyBand®G.657  
E1.1-EasyBand®Plus G.657  
A1-50/125 μm  
A1b-62.5/125 μm  
A1H-HiBand®50/125  
A1bH-HiBand®62.5/125  
M1-MaxBand®150  
M3-MaxBand®300  
M5-MaxBand®550

注Note:

- a. 型号的后缀Xn表示选用的光纤类型, 详见长飞上海光纤型号说明;  
Suffix Xn denotes fiber type and see details in YOFC(SH)'s optical fiber illustration.
- b. 套管和光纤的颜色排列见色谱表;  
The colour arrangements of fiber and tube are specified in the colour identification table.
- c. 加强件外侧阻燃护套的最小厚度标称值为1.0mm;  
The nominal value of the flame-retardant PE sheath minimum thickness outside of the strength member is 1.0mm.
- d. 12芯以下光缆为钢带不扎纹结构; 若客户要求扎纹, 需在合同中特别说明。  
The steel tape is not corrugated in the cable with 12 fibers below. If the corrugated steel tape is requested, it should be specified in contract.