

# Communication optical cable for coal mine(MGTS)

## Product Description

MGTS optical cable places the optical fiber in a high modulus loose tube and fills it with waterproof grease. The cable core is reinforced with phosphated steel wire, and a loose sleeve is twisted with a filling rope to form a circular shape. The gaps are filled with water-resistant cable paste. The cable core is longitudinally wrapped with double-sided laminated steel strip, and then extruded with a blue flame-retardant PVC sheath, which has moisture-proof, flame-retardant and mechanical protection properties.

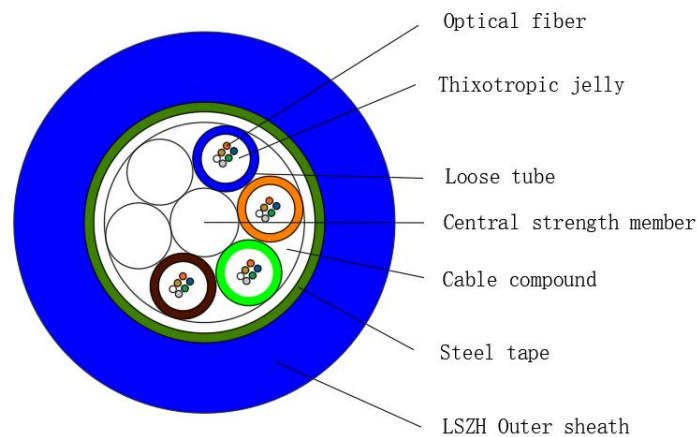
## Product standard

According to IEC-60794-3-10-2015

Applications: Coal mine

## Product features

- High quality optical fiber is selected to ensure excellent transmission performance
- Accurate control of fiber surplus length to ensure that the fiber has good tensile properties and temperature characteristics
- The loose tube itself have good hydrolysis resistance and high strength, and the special thixotropic jelly filled in the tube provide the key protection for the optical fiber
- Full section water blocking structure, double-sided coated steel tape longitudinal package, to ensure good water resistance and moisture resistance performance
- The central strength member is made of corrosion-resistant and high Young's modulus phosphated steel wire
- The flame retardant outer sheath ensure the excellent flame retardant performance of the optical cable



## Technical parameter

Fiber count	Element number	Max.cores in tube	Cable diameter (mm)	Weight (kg/km)
2~30	5	6	9.3	117
32~36	6	6	9.3	136

38~60	5	12	9.8	129
62~72	6	12	10.3	149
74~84	7	12	11.0	164
86~96	8	12	11.7	182
98~108	9	12	12.3	194
110~120	10	12	12.9	209
122~132	11	12	13.6	227
134~144	12	12	14.3	250
Tensile strength ( N )	Long term		Short term	
	600		1500 & 1G(G is the weight of optical cable per kilometer)	
Crush resistance (N/100mm)	Long term		Short term	
	300		1000	
Bending radius	Static		Dynamic	
	≥10D(D is the outer diameter of optical cable )		≥20D(D is the outer diameter of optical cable )	
Operating temperature	-40℃~~+70℃			
Application	Coal mine laying			