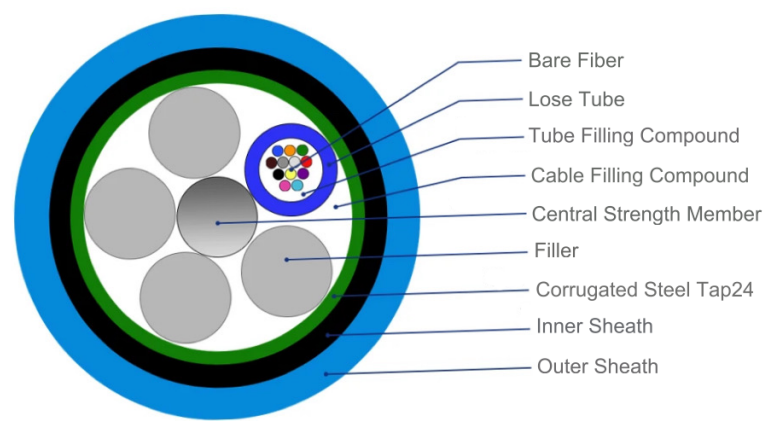


Outdoor Fiber Optical Cable MGTSV

P/N: FX-OOFC-MGTSV



The MGTSV mining optical cable not only inherits all the performance of optical fiber cables, but also adds flame retardant, rodent proof and other characteristics due to the special requirements of the coal mining industry (in special mining environments) to ensure smooth communication and reduce losses.

Fiber Parameter

Single Mode Fiber				
	Unit	G.652D	G657A1	G657A2
Cladding Diameter	μm	125±1.0	125±0.7	125±0.7
Cladding non-circularity	%	≤ 1.0	≤ 0.7	≤ 0.7
Core-cladding Concentricity Error	μm	≤ 0.6	≤ 0.5	≤ 0.5
Coating Diameter	μm	245±7	245±5	245±5
Coating non-circularity	%	≤ 6.0	≤ 6.0	≤ 6.0
Cladding-coating concentricity error	μm	≤ 12.0	≤ 12.0	≤ 12.0
Cable Cutoff Wavelength (λ _{cc})	nm	≤ 1260	≤ 1260	≤ 1260

Mode Field Diameter		1310nm	μm	≤ 0.4	≤ 0.4	≤ 0.4
		1550nm	μm	≤ 0.3	≤ 0.3	≤ 0.3
Multimode Fiber						
		Unit	62.5/125	50/125	OM3	OM4
Core Diameter		μm	62.5±2.5	50±2.5	50±2.5	50±2.5
Cladding Diameter		μm	125±1.0	125±1.0	125±1.0	125±1.0
Core Non-circularity		%	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0
Cladding Non-circularity		%	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Core-cladding Concentricity Error		μm	≤ 1.5	≤ 1.5	≤ 1.0	≤ 1.0
Coating Diameter		μm	245±7	245±7	245±7	245±7
Coating Non-circularity		%	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0
Cladding-coating Concentricity Error		μm	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0
OFL Bandwidth	850nm	MHz·km	≥ 160	≥ 500	≥ 1500	≥ 3500
	1300nm	MHz·km	≥ 500	≥ 500	≥ 500	≥ 500

Color Coding

Bare Fiber	IEC Standard fiber color coding: Blue, orange, green, brown, gray, white, red, black, yellow, purple, pink, aqua Note: ① When the optical fibers in each loose tube is less than 12, they will be colored from the first color (blue) in sequence; ② The fiber color coding can be customized
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Loose tube	Standard telecom industry color coding: Blue, orange, green, brown, gray, white, red, black, yellow, purple, pink, aqua T Mark Color Code: Red/Green (from red to green is the arrangement direction of the loose tube) Note: IEC TR 63194:2019 Annex E.2 is the default color coding standard. Color customization is available too.)
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Mechanical & Environmental Characteristics

Fiber Count	Tube & Filler	Cable OD (mm)	Cable G.W. (kg/km)	Tensile Resistance (N) Long/Short Term	Crush Resistance (N/100mm) Long/Short Term	Bending Radius (mm) Static/Dynamic
12~60	5	12.2	156	1000/2000	500/1500	15D/30D
72	6	13.8	210	1750/3500	500/1500	15D/30D
96	8	15.1	242	1750/3500	500/1500	15D/30D
120	10	17.2	280	1750/3500	500/1500	15D/30D
144	12	19.0	320	1750/3500	500/1500	15D/30D