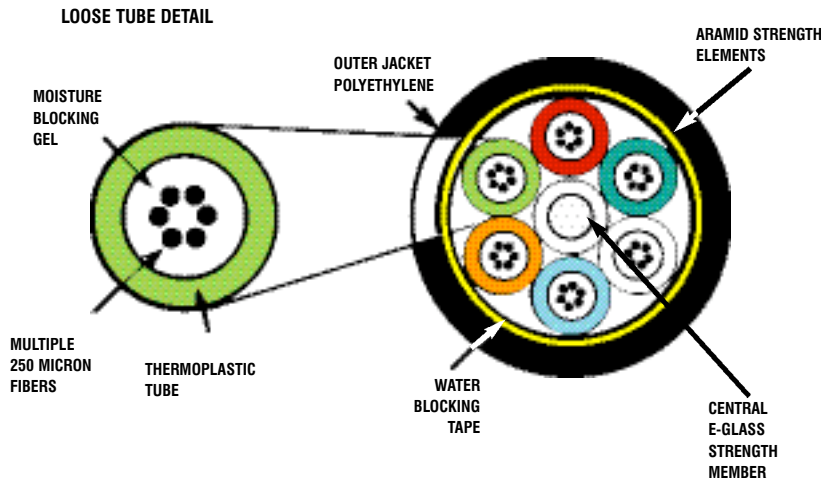


Loose Tube

Outdoor

DESCRIPTION

MOHAWK'S OUTSIDE PLANT LOOSE TUBE FIBER OPTIC CABLE IS A DRY CORE CABLE WITH MOISTURE BLOCKING GEL INSIDE THE THERMOPLASTIC BUFFER TUBE. THE INDIVIDUALLY COLORED 250 μ m FIBERS ARE SURROUNDED BY GEL FOR MOISTURE RESISTANCE. EACH INDIVIDUAL 6 OR 12 FIBER GROUP IS PROTECTED WITH A COLORED PBT JACKET AND CABLED AROUND A RIGID EPOXY FIBERGLASS CENTRAL STRENGTH MEMBER WHICH PROVIDED SUPERIOR PROTECTION AGAINST THERMAL EXPANSION AND CONTRACTION OVER THE OPERATING TEMPERATURE RANGE OF -40°C TO +70°C. AN OVERAL WATER SWELLABLE TAPE PROVIDES AXIAL WATER PENETRATION PROTECTION. THE CORE IS HELICALLY WRAPPED WITH ARAMID YARN FOR TENSILE STRENGTH AND PROTECTED WITH AN OVERAL WATER, FUNGUS AND UV RESISTANT BLACK MEDIUM DENSITY POLYETHYLENE JACKET. MOHAWK'S OUTSIDE PLANT LOOS TUBE FIBER CABLES ARE OFFERED IN ALL GRADES OF MULTIMODE AND SINGLE-MODE UP TO 216 FIBERS.



PRODUCT FEATURES/BENEFITS

- ALL DIELECTRIC CENTRAL STRENGTH MEMBER
- EXCELLENT ATTENUATION PERFORMANCE
- DRY WATER BLOCKING FOR MOISTURE PROTECTION
- POLYETHYLENE JACKET FOR WEATHER AND UV PROTECTION
- BREAKOUT KITS AVAILABLE
- WATERBLOCK GEL AVAILABLE

APPLICATIONS

- BUILDING INTERCONNECTIONS AND DATA TRUNK
- LONG HAUL NETWORKING
- DUCTS BETWEEN BUILDINGS AND AERIAL LASHING
- APPLICATIONS REQUIRING GOOD OZONE, MOISTURE, WEATHER RESISTANCE

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

• CRUSH RESISTANCE	(EIA-455-41)	2000 N/cm
• IMPACT RESISTANCE	(EIA-455-25)	2000 IMPACTS W1.6 N-m
• MIN. BEND RADIUS	LONG TERM-NO LOAD	15X CABLE DIAMETER
• MIN. BEND RADIUS	SHORT TERM-LOAD	20X CABLE DIAMETER
• OPERATING TEMP.	--	-40°C TO +70°C
• INSTALLATION TEMP.	--	-30°C TO +60°C
• STORAGE TEMP.	--	-50°C TO +80°C

Loose Tube

Part Number	Fiber Count	Fibers Per Tube	Outside Diameter		Weight		Min. Bend Radius				Max. Load (Installation)	
			mm	in.	kg/km	lbs/M'	Short Term		Long Term		Newtons	lbs.
M9X510T	6	6	9.65	.380	65	44	19.3	7.6	14.5	5.7	2700	600
M9X511T	12	6	9.65	.380	65	44	19.3	7.6	14.5	5.7	2700	600
M9X500T	24	6	9.65	.380	67	45	19.3	7.6	14.5	5.7	2700	600
M9X502T	36	6	9.65	.380	70	47	19.3	7.6	14.5	5.7	2700	600
M9X505T	48	12	12.19	.480	104	70	24.4	9.6	18.3	7.2	2700	600
M9X507T	72	12	12.19	.480	104	70	24.4	9.6	18.3	7.2	2700	600
M9X513T	96	12	13.89	.547	138	93	27.7	10.9	20.8	8.1	2700	600
M9X509T	144	12	17.78	.700	222	149	35.6	14.0	26.7	10.5	2700	600
M9X520T	216	12	18.16	.715	220	148	36.3	14.3	27.2	10.7	2700	600

For "X" in part number see optical characteristics below.

Optical Characteristics

Meets or exceeds ISO/IEC 11801

	OM1	OM1	OM2	OM3	OM3	
Grade	2	3	4	5	6	SM2
Glass Type	62.5/125 MM AdvanceLite	62.5/125 MM AdvanceLite	50/125 MM AdvanceLite	50/125 MM AdvanceLite	50/125 MM AdvanceLite	Single-Mode Enhanced ⁵
Part Number Code (X)	B	D	A	C	E	W
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL¹ Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	—
Min. Laser² Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4700/500	—
Max. Attenuation Loose Tube (dB/km)	3.25/1.0	3.25/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.40/0.30
100 Mbit Fast Ethernet Min. Link Length (meters S/L/E³)	300/2000	300/2000	300/2000	300/2000	300/2000	5000/—
1 Gigabit Ethernet Min. Link Length (meters S/L/E³)	300/550	500/1000	600/600	1000 ⁴ /600	1000 ⁴ /600	5000/—
10 Gigabit Ethernet Min. Link Length (meters S/L/E³)	33/300	33/300	82/300	300/300	550/300	10,000/40,000

¹ OFL – Overfilled Launch

² Effective Modal Bandwidth, determined by RML or DMD performance specifications

³ S/L/E – Short wavelength (850 nm) / Long wavelength (1310 nm) / Extra long wavelength (1550 nm)

⁴ >2000 meters for engineered links

⁵ Low water peak Single-Mode suitable for CWDM use complies with ITU G.652.c/d

Mohawk reserves the right to change specification in the interest of product enhancement.

MOHAWK

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