

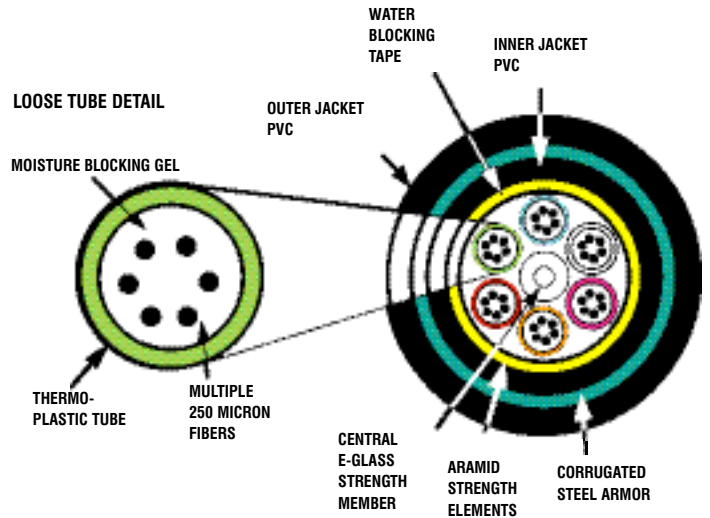


Armored Loose Tube

Outdoor Direct Burial

DESCRIPTION

MOHAWK'S OUTSIDE PLANT ARMORED 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 PROVIDES SUPERIOR PROTECTION AGAINST THERMAL EXPANSION AND CONTRACTION OVER THE OPERATING TEMPERATURE RANGE OF -40°C TO +70°C. AN OVERALL WATER SWELLABLE TAPE PROVIDES AXIAL WATER PENETRATION PROTECTION. THE CORE IS HELICALLY WRAPPED WITH ARAMID YARN FOR TENSILE STRENGTH, PROTECTED WITH AN INNER JACKET. A TWO-SIDE PLASTIC CLAD CORRUGATED STEEL TAPE IS APPLIED LONGITUDINALLY WITH AN OVERALL WATER, FUNGUS AND UV RESISTANT BLACK MEDIUM DENSITY POLYETHYLENE JACKET. MOHAWK'S OUTSIDE PLANT LOOSE TUBE FIBER CABLES ARE OFFERED IN ALL GRADES OF MULTIMODE AND SINGLE-MODE UP TO 216 FIBERS.



PRODUCT FEATURES/BENEFITS

- EXCELLENT ATTENUATION PERFORMANCE
- DRY WATER BLOCKING FOR MOISTURE PROTECTION
- POLYETHYLENE JACKET FOR WEATHER AND UV PROTECTION
- BREAKOUT KITS AVAILABLE
- CORRUGATED STEEL TAPE
- RODENT RESISTANT
- WATERBLOCK GEL AVAILABLE

APPLICATIONS

- BUILDING INTERCONNECTIONS
- TELECOMMUNICATIONS AND DATA TRUNK
- LONG HAUL NETWORKING
- DIRECT BURIAL 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

Armored 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		Newton	lbs.
M9X381T	6	6	13.46	.530	150	101	26.9	10.6	20.2	8.0	2700	600
M9X382T	12	6	13.46	.530	152	102	26.9	10.6	20.2	8.0	2700	600
M9X384T	24	6	13.46	.530	153	103	26.9	10.6	20.2	8.0	2700	600
M9X386T	36	6	13.46	.530	153	103	26.9	10.6	20.2	8.0	2700	600
M9X389T	48	12	16.51	.650	214	144	33.0	13.0	24.9	9.8	2700	600
M9X391T	72	12	16.51	.650	211	142	33.0	13.0	24.9	9.8	2700	600
M9X398T	96	12	17.53	.690	250	168	35.1	13.8	26.4	10.4	2700	600
M9X393T	144	12	22.10	.870	359	241	44.2	17.4	33.3	13.1	2700	600
M9X400T	216	12	22.10	.870	359	241	44.2	17.4	33.3	13.1	2700	600

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

Optical Characteristics

Meets or exceeds ISO/IEC 11801

Grade	OM1	OM1	OM2	OM3	OM3	SM2
	2	3	4	5	6	
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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