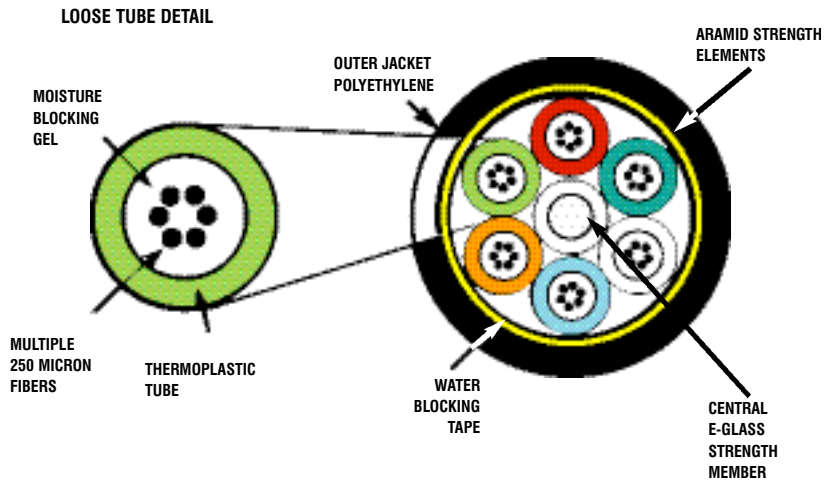


Loose Tube

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 | | Newton | 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 | OM4 | |
|---|-------------------------|-------------------------|-----------------------|------------------------|------------------------|-----------------------------------|
| 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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