



ArmorLite ADTM

ALL DIELECTRIC ARMORED FIBER

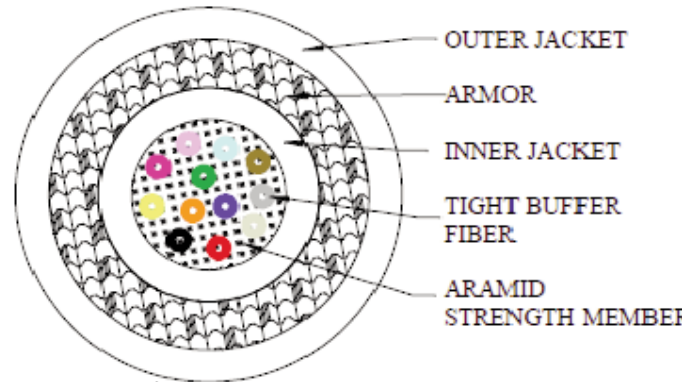
C(ELT)US TYPE OFNR - FT4 (RISER)

C(ETL)US TYPE PFNP - FT6 (PLENUM)

DESCRIPTION

MOHAWK'S ARMORLITE AD HIGH PERFORMANCE FIBER IS DESIGNED MANUFACTURED AND TESTED TO EXCEED TIA/EIA-568B, GIGABIT ETHERNET AND ATM APPLICATION PERFORMANCE STANDARDS. IT IS INDEPENDENTLY TESTED BY INTERTEK ETL. MOHAWK'S OPEN ARCHITECTURE MODEL ALLOWS THE ABILITY TO WORK WITH NUMEROUS CONNECTIVITY OPTIONS AND CUSTOM-BUILD THE SOLUTION SPECIFIC TO YOUR PROJECT REQUIREMENTS.

ARMORLITE AD TIGHT BUFFER CABLES CONSTRUCTED WITH INDIVIDUALLY COLOR CODED TIGHT BUFFERED FIBERS WITH OVERALL ARAMID YARN MEMBERS, INNER JACKET, AN ALL-DIELECTRIC PLASTIC ARMOR, AND FLAME RETARDANT OUTER JACKET. ARMORLITE AD IS AVAILABLE IN 6, 12 AND 24 FIBER COUNTS OF ALL GRADES OF MULTIMODE AND SINGLEMODE FIBER. TWO CENTER CORE FILLERS ARE INCLUDED IN THE 24 FIBER COUNT. ARMORLITE PLENUM IS LISTED C(ETL)US TYPE OFNP-FT6, AND RISER IS LISTED C(ETL)US TYPE OFNR-FT4.



PRODUCT FEATURES/BENEFITS

- NO GROUNDING REQUIRED, LESS CONSUMABLES
- EASE OF USE WITH NON-METALLIC ARMOR
- NO SPECIAL TOOLING REQUIRED
- SAFER, NO SHARP EDGES

APPLICATIONS

- DATA CENTERS
- INTRABUILDING BACKBONES
 - COMMERCIAL ENTERPRISE
 - MILITARY
 - HEALTH CARE
 - HIGHER EDUCATION

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Crush Resistance:	FOTP-41	400N/cm
Impact Resistance:	FOTP-25	25 Impacts w/3 N-m
Flexure:	FOTP-104	100 Cycles min.
Installation Temp (Riser):	FOTP-3	-10°C to +60°C
Installation Temp (Plenum):	FOTP-3	0°C to +60°C
Operating Temp (Riser):	FOTP-3	-20°C to +70°C
Operating Temp (Plenum):	FOTP-3	0°C to +70°C
Storage Temp (Both):	FOTP-3	-40°C to +70°C

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C(ELT)US TYPE OFNR - FT4 (RISER)

C(ETL)US TYPE PFNP - FT6 (PLENUM)

RISER

Part Number	Fiber Count	Inner Cable OD in (mm)	Armored Cable OD in (mm)	Total Weight lb/1000 ft (kg/km)	Max Tensile Load		Min Bend Radius	
					Short Term lbf (N)	Long Term lbf (N)	Loaded in (cm)	Installed in (cm)
M9X250	6	.180 (4.6)	.390 (9.9)	62 (92)	200 (890)	100 (444)	5.9 (15.0)	3.9 (9.9)
M9X251	12	.200 (5.1)	.420 (10.7)	72 (107)	225 (1000)	133 (593)	6.3 (16.0)	4.2 (10.7)
M9X252	24	.270 (6.9)	.500 (12.7)	101 (150)	585 (2600)	195 (867)	7.5 (19.1)	5.0 (12.7)

PLENUM

Part Number	Fiber Count	Inner Cable OD in (mm)	Armored Cable OD in (mm)	Total Weight lb/1000 ft (kg/km)	Max Tensile Load		Min Bend Radius	
					Short Term lbf (N)	Long Term lbf (N)	Loaded in (cm)	Installed in (cm)
M9X260	6	.180 (4.6)	.410 (10.4)	81 (121)	200 (890)	100 (444)	6.1 (15.5)	4.1 (10.4)
M9X261	12	.200 (5.1)	.440 (11.2)	93 (138)	225 (1000)	133 (593)	6.6 (16.8)	4.4 (11.2)
M9X262	24	.260 (6.6)	.520 (13.2)	127 (189)	585 (2600)	195 (867)	7.8 (19.8)	5.2 (13.2)

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 ⁶
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 Tight Buffered (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
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
Cabling Excellence for Open Architecture

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