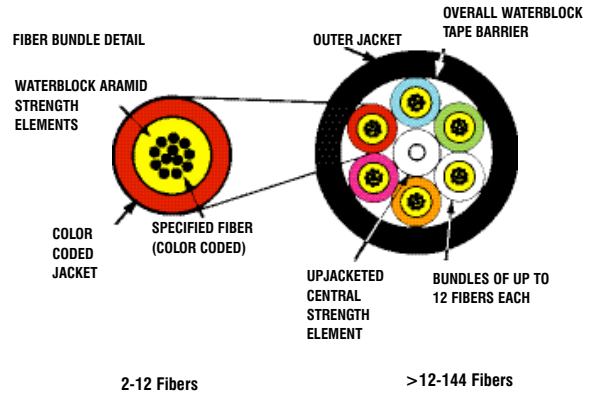


Indoor/Outdoor Tight Buffer Distribution Cable

Riser UL/cUL Type OFNR / OFN FT4
Plenum UL/cUL Type OFNP / OFN FT6

DESCRIPTION

INDOOR/OUTDOOR 900 μm TIGHT BUFFER FIBER OPTIC CABLE WHICH IS FULLY COMPLIANT WITH INDUSTRY STANDARD SPECIFICATION: ICEA S-104-696 "STANDARD FOR INDOOR-OUTDOOR OPTICAL FIBER CABLE". THE CABLE CONSISTS OF 900 μm COLOR CODED BUFFERED FIBERS WHICH ARE SURROUNDED BY WATER-SWELLABLE ARAMID STRENGTH MEMBERS, WITH A RIPCORD, UNDER AN OVERALL UV-RESISTANT, FLAME-RETARDANT BLACK JACKET. FOR CABLES WITH FIBER COUNTS OVER 24, BUNDLES OF 6 OR 12 FIBERS ARE UTILIZED. AN OVERALL WATER-SWELLABLE TAPE BARRIER PROTECTS THE INTERSTICES FROM AXIAL MOISTURE MIGRATION. THESE CABLES ARE SUITABLE FOR DUCT AND AERIAL INSTALLATIONS WITH NO NEED FOR COSTLY TRANSITION POINTS AT THE BUILDING ENTRANCE.



PRODUCT FEATURES/BENEFITS

- 900 μm TIGHT BUFFERED 2 TO 144 FIBER CABLES
- FIBERS AND SUB-UNITS ARE COLOR CODED FOR EASE OF IDENTIFICATION
- FULLY WATER-BLOCKED FOR OUTDOOR APPLICATIONS
- NO BREAKOUT KITS REQUIRED FOR TERMINATIONS
- DURABLE FLAME-RETARDANT AND UV-RESISTANT BLACK OUTER JACKET
- UL RISER & PLENUM RATED OFNR/OFPN FOR VERSATILE USE
- MEETS ICEA S-104-696 TEST CRITERIA

OPTIONS

- MINE SAFETY AND HEALTH ADMINISTRATION (MSHA) APPROVED CABLES
- AVAILABLE IN 50 μm , 62.5 μm , SINGLE-MODE HYBRID CONSTRUCTIONS
- LSZH RISER RATED CONSTRUCTIONS
- AVAILABLE IN UV-RESISTANT COLORED JACKETS
- AVAILABLE WITH ALUMINUM OR STEEL INTERLOCK ARMOR

MECHANICAL, ENVIRONMENTAL & FLAME CHARACTERISTICS

● CRUSH RESISTANCE	(EIA-455-41)	220 N/cm
● IMPACT RESISTANCE	(EIA-455-25)	2000 IMPACTS W/1.6 N-m
● FLEXURE	(EIA-455-104)	2000 CYCLES MIN.
● WATER PENETRATION TEST	(EIA-455-82)	PASSED
● MIN. BEND RADIUS	LONG TERM-NO LOAD	10X CABLE DIAMETER
● MIN. BEND RADIUS	SHORT TERM-LOAD	15X CABLE DIAMETER
● OPERATING TEMP.	-	-40°C TO +70°C
● INSTALLATION TEMP.	-	-10°C TO +60°C (RISER) 0°C TO +60°C (PLENUM)
● STORAGE TEMP.	-	-40°C TO +80°C
● UL/cUL RATED	TYPE OFNR/OFN FT4 (RISER) TYPE OFNP/OFN FT6 (PLENUM)	
● FLAME RESISTANCE	UL 1666 (RISER) UL 910 (PLENUM)	PASSED PASSED

Indoor/Outdoor Tight Buffer Distribution Cable

Riser UL/cUL Type OFNR / OFN FT 4
Plenum UL/cUL Type OFNP / OFN FT 6

Part Number	Fiber Count	Outside Diameter		Weight		Min. Bend Radius				Max. Load (Installation)	
		mm	in.	kg/km	lbs/M'	Short Term		Long Term		Newtons	lbs.
						cm	in.	cm	in.		
M9X039T	6	5.59	.220	28	19	8.4	3.3	5.6	2.2	1335	300
M9X045T	6	4.83	.190	24	16	7.6	3.0	5.1	2.0	1335	300
M9X042T	12	6.48	.255	40	27	9.6	3.8	6.6	2.6	1335	300
M9X048T	12	5.72	.225	33	22	8.6	3.4	5.8	2.3	1335	300
M9X601T*	24	8.26	.325	63	42	12.4	4.9	8.4	3.3	2700	600
M9X611T*	24	8.38	.330	60	40	12.4	4.9	8.4	3.3	2700	600
M9X604T	36	16.64	.655	210	141	25.0	9.8	16.6	6.6	2700	600
M9X614T	36	15.37	.605	201	135	23.1	9.1	15.4	6.1	2700	600
M9X606T	48	16.21	.638	195	131	24.3	9.6	16.2	6.4	2700	600
M9X616T	48	15.49	.610	195	132	23.2	9.2	15.5	6.1	2700	600

*Single Jacket Version. For "X" in part number see optical characteristics below. Other fiber counts are also available. Shaded parts are plenum; non-shaded parts are non-plenum.

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 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

9 Mohawk Drive, Leominster, MA 01453
(978) 537-9961 • 1-800-422-9961 • FAX (978) 537-4358
info@mohawk-cable.com www.mohawk-cable.com