



Outside Plant (OSP) MicroCore® Air-Blown Fiber Optic Cables

AFL OSP MicroCore cable series is designed for outside plant installation in microduct conduit systems. The unique, high-fiber density geometry yields a cable construction that can safely accommodate up to 144-fiber within cable package that can be air-blown into a microduct with an inside diameter as small as 10 mm or (0.394"). This cable solution offers the system designer the flexibility to install from 12- to 144-fibers within each 10 mm ID microduct within the multi-duct system.

For example, with a 7-way 12.7 mm x 10 mm (conduit with seven microducts) in place, the system designer has the flexibility to install from 12 to 144 fibers per microduct. With this approach, only the number of fibers required for initial networking requirements need to be installed. Then as future network upgrades and expansions are required, the spare microducts can be jetted with addition OSP MicroCore cables without having to add additional pathway space.

Applications

- Designed for long -haul and middle-mile
- Campus inter-building backbone distribution
- Low-cost fiber upgrade migration strategies

Features

- GR-20 compliant water-blocked cable core and buffer tubes
- Colored binder threads for easily identifiable optical fiber bundles
- Complete range of single-mode and multimode fibers
- Bend insensitive fiber solutions also available
- Aramid-strengthened cable core
- OD compatible with 10 mm inside diameter microducts
- Up to 144-fiber

Benefits

- Can be installed in eABF duct or third-party rated duct systems
- Standards compliant stand-alone interconnect cable
- Supports 10G, 40G and 100G Ethernet Architectures
- Supports end-to-end BIF applications
- Robust tensile load bearing capable
- Higher density fiber pathway solutions
- Over 1,000 fibers per 7-way Dura-Line 12.7 mm x 10 mm FuturePath Duct

Mechanical Data

LM-SERIES AFL NO.	FIBER COUNT	FIBERS/ TUBE	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD LBS (KG)		MINIMUM BEND RADIUS INCHES (CM)	
			INCHES	MM	LBS/1,000 FT	KG/KM	INSTALLATION	OPERATION	INSTALLATION	OPERATION
LM012xC6101NS	12	12/1 (5 fillers)	0.299	7.6	31	46	300 (136)	99 (45)	7 (16)	5 (13)
LM024xC6101NS	24	12/2 (4 fillers)	0.299	7.6	31	46	300 (136)	99 (45)	7 (16)	5 (13)
LM048xC6101NS	48	12/4 (2 fillers)	0.299	7.6	33	49	300 (136)	99 (45)	7 (16)	5 (13)
LM072xC6101NS	72	12/6 (no fillers)	0.299	7.6	34	51	300 (136)	99 (45)	7 (16)	5 (13)
LM096xO6101NS	96	24/2, 12/4	0.311	7.9	34	51	300 (136)	99 (45)	7 (16)	5 (13)
LM144xO6101NS	144	24/6 (no fillers)	0.311	7.9	36	53	300 (136)	99 (45)	7 (16)	5 (13)

* See Optical Fiber Specifications table for fiber type identifier. The "Fiber Identifier" replaces the "xx" in the AFL No.

AFL MCIROCORE®
BLOWN CABLE

Outside Plant (OSP) MicroCore® Air-Blown Fiber Optic Cables (cont.)

Specifications

FIBER TYPE	AFL NO. FIBER IDENTIFIER*	ISO DESIGNATION	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ-KM)		EMBC (MHZ-M)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
			850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
62.5/125	6	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	N/A
50/125	5	OM2	3.5	1.2	N/A	500	500	N/A	600	600	82	N/A
50/125	L	OM3	3.5	1.2	N/A	1500	500	2000	1000	550	300	N/A
50/125	C	OM4	3.5	1.2	N/A	3500	550	4700	1040	550	550	N/A
SM	AP	OS1	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10000
SM BIF	K	N/A	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10000

Tested to meet or exceed TIA/EIA-568-C, Telcordia GR-20, ICEA, IEC and IEEE Standards.

Environmental

PARAMETER	VALUE
Operating Temperature	-30°C
Storage Temperature	-30°C
Installation Temperature	-10°C

Standard P-U

Length	6,000 m (20,000 ft)
Reel Type	Wood
Reel Size	58 x 32 x 28 in.