



LMZ-Series OFNG-LS I/O MicroCore®

AFL's LMZ-Series Indoor/Outdoor OFNG-LS MicroCore product line is a flame-rated Low Smoke Zero Halogen (LSZH) cable optimized for mass transit metro rail communications networks. The product line meets NFPA 130 requirements for transit and passenger rail systems making it ideal for trackside and station-to-station air-jetting applications by eliminating the need to put contractors on the track to perform installations. The LMZ-Series is available in 24 to 432 fibers.

Features

- Low-smoke, zero-halogen construction reduces harmful toxic gases emitted when combusted
- Optimized air-jetting cable design is ideally suited for low-cost micro-duct installation
- Ruggedized Indoor/Outdoor Rated cable structure
- Can be routed throughout network without a need for separate OSP and ISP cables
- Loose buffer tube core construction using 200 µm single-mode fiber

Applications

- Metro-rail station-to-station tunnel networks
- Airport terminal-to-terminal connections
- Industrial complex communications infrastructure

Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	-10°C to +40°C
OPERATING	-30°C to +70°C
STORAGE	-30°C to +55°C

Ordering Information and Fiber Specifications

AFL NO.	FIBER COUNT	FIBERS/ NO. OF TUBES**	NOMINAL DIAMETER	MIN. MICRODUCT INNER DIAMETER	WEIGHT	MAXIMUM TENSILE LOAD		MINIMUM BEND	
						lbs (N)		inches (cm)	
						INSTALLATION	OPERATION	INSTALLATION	OPERATION
LMZ024*O6101NS	24	24/1 (5 fillers)	0.346 (8.8)	0.512 (13)	58 (87)	200 (890)	60 (267)	7 (18)	6 (14)
LMZ048*O6101NS	48	24/2 (4 fillers)	0.346 (8.8)	0.512 (13)	59 (88)	200 (890)	60 (267)	7 (18)	6 (14)
LMZ072*O6101NS	72	24/3 (3 fillers)	0.346 (8.8)	0.512 (13)	60 (90)	200 (890)	60 (267)	7 (18)	6 (14)
LMZ096*O6101NS	96	24/4 (2 fillers)	0.346 (8.8)	0.512 (13)	61 (91)	200 (890)	60 (267)	7 (18)	6 (14)
LMZ144*O6101NS	144	24/6	0.346 (8.8)	0.512 (13)	63 (94)	200 (890)	60 (267)	7 (18)	6 (14)
LMZ288*R6101NS	288	48/6	0.413 (10.5)	0.590 (15)	85 (126)	300 (1334)	90 (400)	8.5 (21)	6.5 (16)
LMZ432*T6101NS	432	72/6	0.512 (13.0)	0.787 (20)	126 (188)	600 (2670)	180 (801)	10.5 (26)	8 (20)

* Fiber Types – Replace asterisk (*) in AFL number with letters in the Fiber Specifications table below. For example, LMZ024BCO6101NS.

** Fibers are arranged in buffer tubes using 12-fiber sets. Each set is identified by colored binder threads.

Optical Fiber Specifications

FIBER TYPE	STANDARD	MODE FIELD DIAMETER 1310 nm	ATTENUATION	
			1310 nm	1550 nm
(BC) 200 µm Single-mode	ITU-T G.652.D / 657.A1	9.2 µm nominal	0.35	0.25
(BA) Corning 200 µm Single-mode	ITU-T G.652.D / 657.A1	9.2 µm nominal	0.35	0.25

Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
Telcordia	GR-20-CORE	Cable*
ICEA	S-104-696	Cable
UL	1685 (OFNG-LS)	Cable
CSA	22.2 (FT4)	Cable
NFPA	130 12.2	Cable
TIA	598-D	Fiber

* Temperature range as specified

Contact AFL for further details.