

## LMHD-Series OSP MicroCore® Cable

The LMHD-Series OSP MicroCore is small-diameter loose tube fiber optic cable. Its small-size, thick-walled sheath and 600 lb. load-rating makes this cable highly versatile for use in most OSP cable installations. The design consists of stranded buffer tubes, aramid and fiberglass strength elements, and a thick-walled, UV-resistant outer jacket. These cables can be jetted or pulled into standard HDPE ducts and, because of their small diameters, can be jetted into popular bundled micro-duct pathways. Minimum pathway inside-diameters range from 13 mm to 20 mm. When the application requires a transition from underground to aerial, the LMHD-Series cables can be lashed to aerial messenger wires using standard OSP cable lashing equipment and techniques. The LMHD-Series OSP MicroCore fiber optic cables are available in 12 fibers up to 432 fibers.

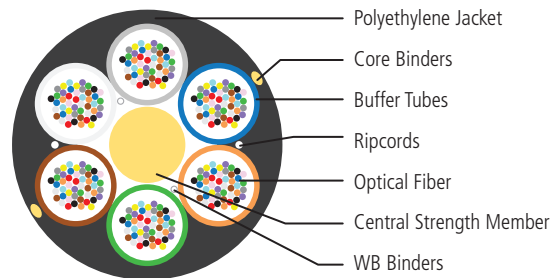
### Applications

- Long-haul, local loop FTTx, campus backbone connections for 10G, 40G and 100G network transmission speeds
- Air-jetted into bundled micro-ducts
- Ideal for pulling into congested pathway over-ride installations

### Temperature Range

Storage	-30°C to +75°C
Installation	-10°C to +40°C
Operating	-30°C to +70°C

### Cable Components



### Features

- Telcordia GR-20 and IEC 60794-5-10 complaint cable designs provide assurance the OSP cabling system complies with industry-leading standards
- 600 lb. tensile load rating
- Thick-walled outer jacket designed for direct lashing to aerial messenger wires
- Robust, kink-resistant buffer tubes reduce time and handling issues associated with enclosure build-outs
- Optical fiber meets ITU-T 652D/G.657.A1 single-mode standard ensuring that all of today's FTTx and long-haul applications are supported
- Small-diameter construction offers improved air-jetting when compared to conventional loose tube cables
- Designed for use in standard HDPE ducts and bundled micro-duct pathways

## LMHD-Series OSP MicroCore® Cable

### Physical and Mechanical Data

AFL NO.	FIBER* COUNT	FIBERS** PER TUBE	DIAMETER		WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	(MM)	LBS/1000FT	(KG/KM)	LBS (N)		INCHES (CM)	
							INSTALLATION	LONGTERM	INSTALLATION	LONGTERM
LM012xC6201N1	12	12/1 (5 fillers)	0.359	9.1	42	64	600 (2670)	180 (801)	7 (18)	5 (13)
LM024xC6201N1	24	12/2 (4 fillers)	0.359	9.1	43	65	600 (2670)	180 (801)	7 (18)	5 (13)
LM048xC6201N1	48	12/4 (2 fillers)	0.359	9.1	44	67	600 (2670)	180 (801)	7 (18)	5 (13)
LM072xC6201N1	72	12/6	0.359	9.1	45	69	600 (2670)	180 (801)	7 (18)	5 (13)
LM096xO6201N1	96	24/4 (2 fillers)	0.390	9.9	52	79	600 (2670)	180 (801)	7 (18)	5 (13)
LM144xO6201N1	144	24/6	0.390	9.9	57	85	600 (2670)	180 (801)	7 (18)	5 (13)
LM288xR6201N1	288	48/6	0.481	12.2	82	125	600 (2670)	180 (801)	10 (25)	8 (20)
LM432xOI201N1	432	24/18	0.567	14.4	112	167	600 (2670)	180 (801)	12 (29)	9 (23)

\* "x" denotes fiber type. See Optical Fibers Options table.

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

### Optical Fiber Options

FIBER TYPE	"X"	STANDARD	MODE FIELD DIAMETER	ATTENUATION	
				1300 nm	1550 nm
Single-mode	9	ITU-T G.652D / 657.A1	9.2 μm nominal	0.35	0.25
Corning SMF-28 Ultra	AZ	ITU-T G.652D / 657.A1	9.2 μm nominal	0.35	0.25