



## LM200-Series OSP MicroCore® Cable

The product design integrates 200 µm buffered single-mode fiber which allows for reduced diameter cables compared to traditional OSP micro-cables. The foundation of the design is the multi-fiber-set, gel-filled buffer tube construction. The kink-resistant buffer tube contains multiple 12-fiber sets of color-coded fibers. Each set within the buffer tube is grouped using dual color-coded binder threads. The dry-blocked core is made up of six buffer tubes SZ-stranded around a central strength member. The low-friction, high-strength overall jacketing system protects the cable-core while providing an optimized cable package supporting high-speed, long-distance jetting performance. The LM200-Series is the right choice for use in bundled micro-duct pathways allowing for future, incremental cable additions as network circuits and bandwidth requirements increase.

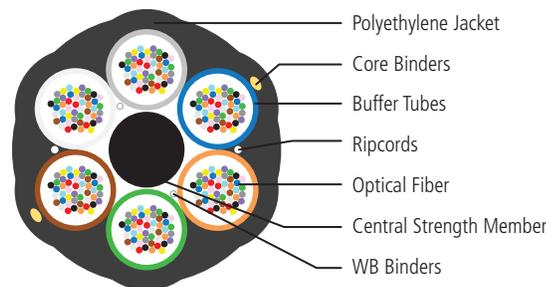
### Features

- 24 to 432 fibers
- Robust, kink-resistant buffer tubes reduce time and handling issues associated with enclosure build-outs
- Low-friction jacketing system allows for longer jetting distances
- Designed for use in bundled micro-duct pathways allowing for future, optical circuit additions

### Applications

- Long-haul, Local Loop FTTx, Campus Backbone connections for 10G, 40G, and 100G network transmission speeds
- Air-jetted into bundled micro-ducts
- Congested pathway over-ride installations

### Cable Components



*continued*  
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## LM200-Series OSP MicroCore® Cable

### Physical and Mechanical Data

LM200-SERIES AFL NO.*	FIBER COUNT	FIBERS/ NUMBER OF TUBES**	DIAMETER		WEIGHT  LBS/1000FT (KG/KM)	MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
			INCHES (MM)	INCHES (MM)		INSTALLATION	OPERATION	INSTALLATION	OPERATION
LM024xO6101NS	24	24/1 (5 fillers)	0.248 (6.3)	0.315 (8)	21 (31)	200 (890)	60 (267)	5 (13)	4 (10)
LM048xO6101NS	48	24/2 (4 fillers)	0.248 (6.3)	0.315 (8)	22 (33)	200 (890)	60 (267)	5 (13)	4 (10)
LM072xO6101NS	72	24/3 (3 fillers)	0.248 (6.3)	0.315 (8)	23 (34)	200 (890)	60 (267)	5 (13)	4 (10)
LM096xO6101NS	96	24/4 (2 fillers)	0.248 (6.3)	0.315 (8)	24 (36)	200 (890)	60 (267)	5 (13)	4 (10)
LM144xO6101NS	144	24/6	0.248 (6.3)	0.315 (8)	26 (39)	200 (890)	60 (267)	5 (13)	4 (10)
LM288xR6101NS	288	48/6	0.319 (8.1)	0.394 (10)	43 (65)	300 (1334)	90 (400)	6.5 (17)	5 (13)
LM432xT6101NS	432	72/6	0.409 (10.4)	0.512 (13)	70 (104)	300 (1334)	90 (400)	8.5 (21)	6.5 (16)

\* "x" denotes fiber type. See optical fiber specification table to complete AFL part number.

\*\* Fibers are arranged in 12-fiber sets identified by colored binder threads. For fiber identification details [click here](#).

### Optical Fiber Specifications

FIBER TYPE	"X"	STANDARD	MODE FIELD DIAMETER	ATTENUATION	
				1300 nm	1550 nm
200 µm Single-mode	BC	ITU-T G.652.D / 657.A1	9.2 µm nominal	0.35	0.25
Corning 200 µm Single-mode	BA	ITU-T G.652.D / 657.A1	9.2 µm nominal	0.35	0.25

### Standard Packaging Details

FIBER COUNT	REEL DIMENSIONS (Flange x Width)	STANDARD REEL LENGTH	REEL WEIGHT	TYPICAL TOTAL WEIGHT
24-288	48 x 36 in.	19,000 ft (5,791 m)	140 lbs (64 kg)	1,100 lbs (500 kg)
432	58 x 38 in.	19,000 ft (5,791 m)	435 lbs (197 kg)	1,900 lbs (862 kg)

### Recommended Products

DESCRIPTION	AFL NO.
Apex® X-2 Sealed Splice Closure	Refer to <a href="#">spec sheet</a> for AFL No.
Apex® X-2S Sealed Splice Closure	Refer to <a href="#">spec sheet</a> for AFL No.
Poli-MOD® Patch and Splice Module	Refer to <a href="#">spec sheet</a> for AFL No.
FUSEConnect® MPO Splice-on Connectors	Refer to <a href="#">spec sheet</a> for AFL No.
FUSEConnect® Field-installable Splice-on Connectors	Refer to <a href="#">spec sheet</a> for AFL No.

### Temperature Specifications

TEMPERATURE RANGE	
OPERATION	-30°C to +70°C
STORAGE	-30°C to +70°C
INSTALLATION	-10°C to +60°C

### Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
ANSI/ICEA	S-122-744	Cable
TIA	598-D	Fiber

Contact AFL for further details.