

AFL OSP MicroCore® and DURA-LINE MicroDucts

CABLE TYPE*	NO. OF FIBERS	FIBERS/BUFFER TUBE	CABLE O.D. inches (mm)	MIN. MICRO-DUCT I.D. inches (mm)	RECOMMENDED DURA-LINE SIZES	MAX INSTALL LOAD RATING lbs (N)	STANDARD REEL LENGTH feet (m)	WEIGHT lbs/1000ft (kg/km)
LM200-Series								
LM024BC06101NS	24	24/1	0.248 (6.3)	0.315 (8)	10/8 DI or 14/10 DB	200 (890)	19,000 (5,791)	21 (31)
LM048BC06101NS	48	24/2	0.248 (6.3)	0.315 (8)	10/8 DI or 14/10 DB	200 (890)	19,000 (5,791)	22 (33)
LM072BC06101NS	72	24/3	0.248 (6.3)	0.315 (8)	10/8 DI or 14/10 DB	200 (890)	19,000 (5,791)	23 (34)
LM096BC06101NS	96	24/4	0.248 (6.3)	0.315 (8)	10/8 DI or 14/10 DB	200 (890)	19,000 (5,791)	24 (36)
LM144BC06101NS	144	24/6	0.248 (6.3)	0.315 (8)	10/8 DI or 14/10 DB	200 (890)	19,000 (5,791)	26 (39)
LM288BCR6101NS	288	48/6	0.319 (8.1)	0.394 (10)	12.7/10 DI or 16/12 DB	300 (1334)	19,000 (5,791)	43 (65)
LM432BCT6101NS	432	72/6	0.409 (10.4)	0.512 (13)	16/13 DI or 18/14 DB	300 (1334)	19,000 (5,791)	70 (104)
LM-Series								
LM0129C6101NS	12	12/1	0.31 (7.9)	0.39 (10)	12.7/10 DI or 16/12 DB	300 (1334)	20,000 (6,096)	31 (46)
LM0249C6101NS	24	12/2	0.31 (7.9)	0.39 (10)	12.7/10 DI or 16/12 DB	300 (1334)	20,000 (6,096)	32 (48)
LM0489C6101NS	48	12/4	0.31 (7.9)	0.39 (10)	12.7/10 DI or 16/12 DB	300 (1334)	20,000 (6,096)	33 (49)
LM0729C6101NS	72	12/6	0.31 (7.9)	0.39 (10)	12.7/10 DI or 16/12 DB	300 (1334)	20,000 (6,096)	34 (51)
LM0969O6101NS	96	24/4	0.31 (7.9)	0.39 (10)	12.7/10 DI or 16/12 DB	300 (1334)	20,000 (6,096)	34 (51)
LM1449O6101NS	144	24/6	0.31 (7.9)	0.39 (10)	12.7/10 DI or 16/12 DB	300 (1334)	20,000 (6,096)	36 (53)
LM2889R6101NS	288	48/6	0.41 (10.4)	0.51 (13)	16/13 DI or 18/14 DB	300 (1334)	20,000 (6,096)	63 (93)
LM4329OI301NS	432	24/18	0.50 (12.6)	0.63 (16)	22/16	300 (1334)	20,000 (6,096)	87 (130)
LMHD-Series								
LM0129C6201N1	12	12/1	0.40 (10.1)	0.512 (13)	16/13 DI or 18/14 DB	600 (2670)	30,000 (9,144)	53 (78)
LM0249C6201N1	24	12/2	0.40 (10.1)	0.512 (13)	16/13 DI or 18/14 DB	600 (2670)	30,000 (9,144)	53 (79)
LM0489C6201N1	48	12/4	0.40 (10.1)	0.512 (13)	16/13 DI or 18/14 DB	600 (2670)	30,000 (9,144)	54 (81)
LM0729C6201N1	72	12/6	0.40 (10.1)	0.512 (13)	16/13 DI or 18/14 DB	600 (2670)	30,000 (9,144)	56 (83)
LM0969O6201N1	96	24/4	0.40 (10.1)	0.512 (13)	16/13 DI or 18/14 DB	600 (2670)	30,000 (9,144)	56 (83)
LM1449O6201N1	144	24/6	0.40 (10.1)	0.512 (13)	16/13 DI or 18/14 DB	600 (2670)	30,000 (9,144)	57 (85)
LM2889R6201N1	288	48/6	0.49 (12.4)	0.630 (16)	22/16	600 (2670)	30,000 (9,144)	86 (129)
LM4329OI201N1	432	24/18	0.58 (14.6)	0.787 (20)	27/20	600 (2670)	20,000 (6,096)	117 (174)

*Part numbers referenced are dielectric with single-mode fiber, see individual specifications for other options.

OSP MICROCORE FIBER OPTIC CABLES

General Features (All series)

- Available fiber counts from 12 to 432
- Robust, kink-resistant buffer tubes reduce time and handling issues associated with enclosure build-outs
- Low-friction jacketing system allows for longer jetting distances thus reducing scrap and labor costs
- Colored binder threads for easily identifiable optical fiber bundles
- OD compatible with 10 mm to 16 mm inside diameter MicroDucts
- Toneable option includes a low-resistance copper wire that allows cable/pathway to be located using standard electromagnetic detector devices

LM-SERIES

- 250 µm buffered single-mode fiber
- 300 lb. tensile load rating

LM200-SERIES

- 200 µm buffered single-mode optical fiber meets ITU-T 652D/G.657.A1 standard
- 300 lb. tensile load rating

LMHD-SERIES

- 600 lb. tensile load rating
- Thick-walled outer jacket designed for direct lashing to aerial messenger wires



Scan for more information

OSP MICROCORE PACKAGING OPTIONS

See individual specification sheets for typical reel weights and dimensions

Other lengths and reel options are available



MICROTECHNOLOGY REFERENCE

Choose the MicroDuct size based on the Cable O.D. and application. MicroDucts are available individually and can be Direct Buried (DB) or Direct Installed (DI or Override).

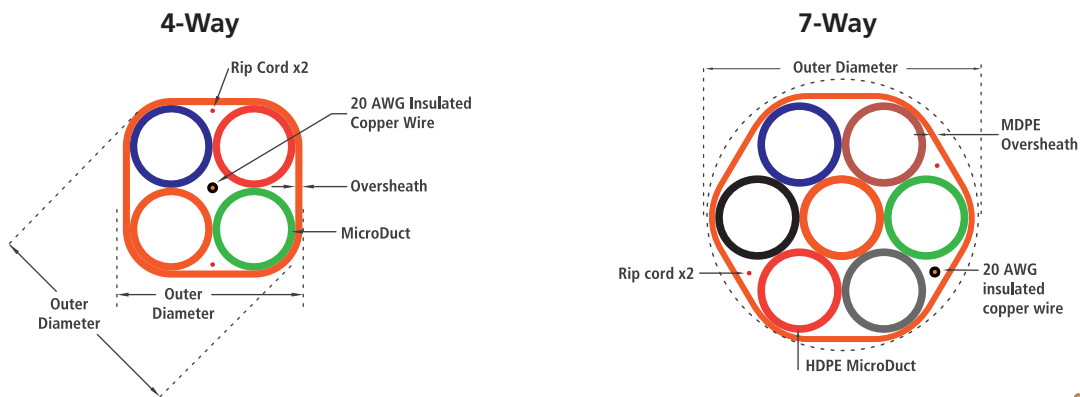
HDPE MICRODUCTS							
MICRODUCT SIZE (MM)	APPLICATION DB/DI*	NOM OD (MM/IN.)	MIN ID (MM/IN.)	WEIGHT (#/FT)	BEND RADIUS SUP (IN.)	BEND RADIUS UNSUP (IN.)	SAFE WORKING PULL STRENGTH (LBS.)
10/8	DI	10/0.39	7.9/0.31	0.018	4	8	93
12.7/10	DI	12.7/0.50	9.8/0.39	0.032	5	10	167
14/10	DB	14/0.55	9.8/0.39	0.050	6	11	264
16/12	DB	16/0.63	11.6/0.46	0.058	6	12	305
16/13	DI	16/0.63	12.8/0.50	0.043	6	12	229
18/14	DB	18/0.71	13.6/0.54	0.066	7	14	352
22/16	DB	21.3/0.84	15.5/0.61	0.101	9	18	537
27/20	DB	26.67/1.050	20.7/0.81	0.132	11	21	701

Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

*DB = Direct Buried, DI = Direct Install

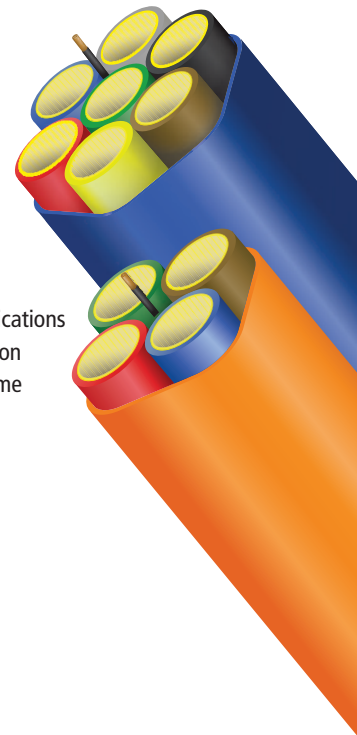
DURA-LINE FUTUREPATH™ MICRODUCTS

FuturePath is the combination of MicroDucts under an oversheath with a locate wire. There are several configurations, two of the most popular (4-way and 7-way) are depicted below.



FUTUREPATH™ FEATURES

- MicroDucts and FuturePath create permanent, reusable pathways that scale to accommodate future fiber installations
- FuturePath and MicroDuct installations don't require special tools or equipment; the same tools utilized for traditional conduit or innerduct are used for Micro installations
- MicroDucts can be used as an override providing a new pathway for additional capacity in an existing crowded network, reducing expensive construction costs and deployment time
- FuturePath Figure-8 Self-Support Aerial conduit utilizes a 1/4" Extra High Strength Galvanized Steel Strand for above-ground applications
- MicroTrenching is less disruptive than traditional plowing or open-trench applications and is a faster process with rapid restoration
- Networks built with FuturePath and MicroCables deliver higher fiber density and provide multiple pathways installed at the same cost as a single traditional conduit, AND provide empty pathways for future expansion



**Contact your local representative
for full information on AFL/Dura-Line Products**