

OCC's durable DX-Series and TL-Series construction fiber can now be combined with smoothwall High Density Polyethylene (HDPE) Conduit. OCC's Fiber In Conduit (FIC) is a durable high-quality product for direct burial and horizontal directional drilling applications. OCC's Fiber in Conduit protects the cable from effects of soil, chemical and rodent damage during installation and backfill - all in one product.

CONDUIT CHARACTERISTICS

CONDUIT TYPE	SIZE	MIN I.D	NOMINAL O.D	MEAN WALL	WEIGHT (LBS/FT)
SDR 13.5	1.00"	1.080	1.315	0.107	0.1672
SDR 11	1.00"	1.036	1.315	0.130	0.1993
SDR 13.5	1.25"	1.374	1.660	0.133	0.2628
SDR 11	1.25"	1.318	1.660	0.161	0.3123

FIBER IN CONDUIT FEATURES

- > Available with 1.00" and 1.25" smoothwall SDR 13.5 & 11 HDPE conduit
- > Easy to install from a reel to accommodate long cable length requirements (up to 10,000 feet per reel)
- > Chemical, water, crush, crack and gopher resistant (1.25") – making it ideal for low-temperature installations
- > OCC's DX-Series inner cable is suitable for direct field termination
- > 50% labor savings when FIC is used in an installation
- > Available in single-mode and multimode fibers
- > Fiber optic cable available in a PVC (D-Jacket) or Polyethylene (A-Jacket) option
- > **Other conduit options available, please contact OCC Sales Rep**

ORDERING INFORMATION

TL-SERIES HIGH-DENSITY CABLE CHARACTERISTICS

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000FT)	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
12-48	10.2 (0.40)	63 (42)	2700 (600)	800 (180)	15.3 (6.0)	10.2 (4.0)
72	10.5 (0.43)	70 (47)	2700 (600)	800 (180)	15.8 (6.2)	10.5 (4.1)
96	12.0 (0.47)	90 (61)	2700 (600)	800 (180)	18.0 (7.1)	12.0 (4.7)
144	15.7 (0.62)	154 (104)	2700 (600)	800 (180)	23.6 (9.3)	15.7 (6.2)
288	18.2 (0.72)	177 (119)	2700 (600)	800 (180)	27.3 (10.8)	18.2 (7.2)



SERIES		FIBER COUNT			JACKET TYPE	FIBER CODE				245µm FIBER	JACKET COLOR	RATING	REINFORCEMENT
T	L				A	S	L	A	J		A		
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Digit No:

- 1-2 Loose Tube Outside Plant = **TL**
- 3-5 Fiber Count: **012-288**
- 6 Polyethylene = **A**
- 7-9 Fiber Type: Single-Mode, **SLA** (G657.A1)
- 10 Loose Tube with 245µm Fiber = **J**
- 11 HDPE Jacket Color: Orange = **O**; Black = **K**
- 12 Rating: None/Outdoor = **A**
- 13-14 SDR 13.5 HDPE Duct: **X1** = 1 inch; **X2** = 1.25 inch; SDR 11 HDPE Duct: **X3** = 1 inch; **X4** = 1.25 inch

Example: 24 Fiber TL-Series Cable with Polyethylene Jacket, Single-Mode Fiber Bend Insensitive (G657.A1) with SDR 13.5 1.25" HDPE Orange Duct

T L 0 2 4 A S L A J O A X 2



DX-SERIES CABLE CHARACTERISTICS (D-JACKET)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000FT)	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
6	5.7 (0.22)	31 (21)	1,400 (310)	450 (100)	8.6 (3.4)	5.7 (2.2)
12	6.5 (0.26)	38 (25)	2,700 (600)	600 (135)	9.8 (3.9)	6.5 (2.6)
24	8.9 (0.35)	66 (44)	3,000 (670)	1,000 (220)	13.4 (5.3)	8.9 (3.5)

ORDERING INFORMATION

SERIES		FIBER COUNT				JACKET TYPE	FIBER TYPE			FIBER UNIT	JACKET COLOR	RATING	REINFORCEMENT	
D	X									9		A		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

Digit No:

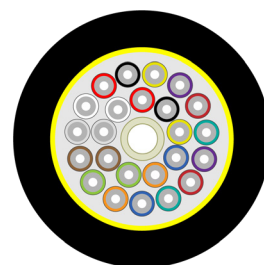
- 1 – 2 Distribution Series Laser Ultra-Fox = **DX**
- 3 – 5 Fiber Count = **006–024**
- 6 Jacket Type: Polyethylene = **A**; PVC = **D**
- 7 – 9 Fiber Type:
 - Single-Mode = **SLA** (G657.A1);
 - Multimode = **WLS** (62.5µm OM1), **ALT** (50µm OM3), **ALE** (50µm OM4)
- 10 Ultra-Fox Fiber with 900µm Tight-Buffer = **9**
- 11 HDPE Jacket Color: Orange = **O**, Black = **K**
- 12 Rating: None/Outdoor = **A**
- 13 – 14 SDR 13.5 HDPE Duct: 1.00 inch = **X1**; 1.25 inch = **X2**;
SDR 11 HDPE Duct: 1.00 inch = **X3**; 1.25 inch = **X4**

Example: 24-Fiber DX-Series Distribution Cable with PVC Jacket, Single-Mode Fiber Bend Insensitive (G657.A1), with 1.25" SDR 13.5 HDPE Orange Conduit

D	X	0	2	4	D	S	L	A	9	O	A	X	2
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FIBER IN CONDUIT APPLICATIONS

- > Ideal for wind and solar SCADA network systems
- > Underground utility networks
- > Offers real-time data communication to monitor wind-turbine operations
- > Installation in underground duct for data transmission between nodes or hubs
- > Ideal for direct burial applications requiring an all-dielectric solution



OCC ROANOKE, VA

Corporate Headquarters and Fiber Optic Cable Manufacturing Facility
5290 Concourse Drive
Roanoke, VA 24019 USA
540.265.0690 or 800.622.7711

OCC DALLAS, TX

Harsh Environment and Specialty Connectivity Manufacturing Facility
1700 Capital Avenue, Suite 150
Plano, TX 75074 USA
972.509.1500 or 877.509.1500

OCC ASHEVILLE, NC

Enterprise Connectivity Manufacturing Facility
33 Superior Way
Swannanoa, NC 28778 USA
828.298.2260 or 800.880.7674

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