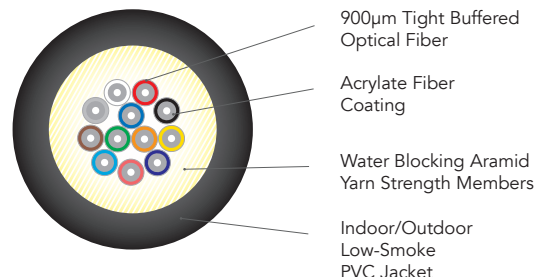


Offering the durability you expect from OCC, these distribution cables provide all of the indispensable elements needed for Indoor and Indoor/Outdoor commercial applications, while providing great value. Manufactured with Indoor/Outdoor grade low smoke PVC for plenum applications.

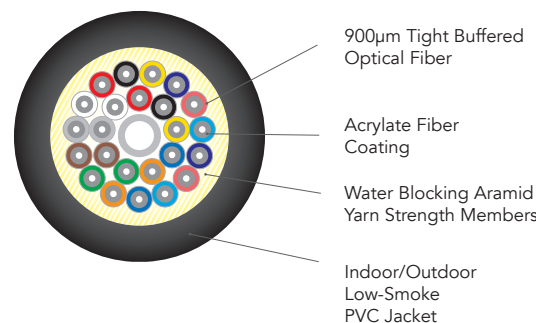
12 FIBER DX-SERIES CABLE

CABLE CHARACTERISTICS	
Jacket Color	Aqua, Black, Orange, and Yellow
Jacket Material	Indoor / Outdoor Low Smoke PVC
Buffer Material	Low Smoke PVC



MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS	
Mechanical Performance per	ICEA S-104-696
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +70°C
Installation Temperature (Actual temperature of cable)	-0°C to +60°C
Flame Retardancy	UL Listed Type OFNP NFPA262 FT6 (CSA C22.2 No. 232)

24 FIBER DX-SERIES CABLE



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)
2	3.8 (0.15)	15 (10)	660 (150)	180 (40)	5.7 (2.3)	3.8 (1.5)
4	4.5 (0.18)	18 (12)	1200 (270)	400 (50)	6.7 (2.6)	4.5 (1.8)
6	4.7 (0.19)	22 (15)	1400 (310)	450 (100)	7.1 (2.8)	4.7 (1.9)
8	5.7 (0.22)	37 (25)	1600 (360)	525 (120)	8.6 (3.4)	5.7 (2.2)
10	6.1 (0.24)	44 (29)	1800 (400)	600 (135)	9.1 (3.6)	6.1 (2.4)
12	6.2 (0.24)	40 (27)	1800 (400)	600 (135)	9.3 (3.7)	6.2 (2.4)
18	6.7 (0.27)	54 (36)	1800 (400)	600 (135)	10.1 (4.0)	6.7 (2.7)
24	8.1 (0.32)	66 (44)	3000 (670)	1000 (220)	12.2 (4.8)	8.1 (3.2)



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

LASER GRADE FIBER PERFORMANCE

Fiber Code ⁷	Industry Standard Designation	Core/Cladding Diameter (µm)	Numeric Aperture	Wavelength (nm)	Gigabit Ethernet Distance (m)	10-Gigabit Ethernet Distance (m)	Max. Cabled Attenuation (dB/km)	Min. Laser EMB Bandwidth* (MHz-km)	Min. OFL LED Bandwidth** (MHz-km)
WLS	OM1 ISO/IEC 11801	62.5/125	0.275	850/1310	300/600	33/300 ¹	3.5/1.5	220/500	200/500
WLX	OM1+ ISO/IEC 11801	62.5/125	0.275	850/1310	500/1000	33/300 ¹	3.5/1.5	385/500	200/500
ALS	Laser Grade OM2, Bend Insensitive ISO/IEC 11908	50/125	0.20	850/1310	600/600	82/300 ¹	3.5/1.5	510/500	500/500
ALX	Extended Length, Laser Grade OM2+, Bend Insensitive ISO/IEC 11801	50/125	0.20	850/1310	750/600	150/300 ²	3.0/1.0 ³	950/500	700/500
ALT	Laser Optimized OM3 Bend Insensitive ISO/IEC 11801	50/125	0.20	850/1310	1000/600	300/300 ²	3.0/1.0 ³	2000/500	1500/500
ALE	Laser Optimized OM4 Bend Insensitive ISO/IEC 11801	50/125	0.20	850/1310	1040/600	550 ¹ /300 ²	3.0/1.0 ³	4700/500	3500/500
SLX	Low Water Peak Single-Mode ITU-T G.652.D	9 ⁶ /125	—	1310/1550	5 km ⁴	10 km ⁵	0.5/0.5	—	—
SLA	Bend Insensitive, Low Water Peak Single-Mode ITU-T G.657.A1 and ITU-T G.652.D	9 ⁶ /125	—	1310/1550	5 km ⁴	10 km ⁵	0.5/0.5	—	—
SLB	Bend Insensitive, Low Water Peak Single-Mode ITU-T G.657.A2 and ITU-T G.652.D	9 ⁶ /125	—	1310/1550	5 km ⁴	10 km ⁵	0.5/0.5	—	—
SLC	Bend Insensitive, Low Water Peak Single-Mode ITU-T G.657.B3 and ITU-T G.652.D	9 ⁶ /125	—	1310/1550	5 km ⁴	10 km ⁵	0.5/0.5	—	—

* Minimum Laser Effective Modal Bandwidth (EMB)

** For backward compatibility to LED based systems, overfilled launch (OFL)

¹ 1310 nm CWDM lasers (10GBASE-LX4)

² Reach assuming 3.0 dB maximum cabled attenuation at 850 nm and 1.3 dB total connection and splice loss

³ Supports 220 meter 10GBASE-LRM distance, or 300 meter 10GBASE-LRM distance with 300 meter capable equipment

⁴ 3.5/1.5 dB/km maximum attenuation applies for DX-Series cables greater than 36 fibers, and for all DX-Series cables with armor (corrugated steel tape or interlocked armor) or any other secondary outer jacketing

⁵ 10 km for 1310 nm 1000BASE-LX10, and 5 km for 1310 nm 1000BASE-LX

⁶ 10 km for 1310 nm 10GBASE-LR, and 40 km for 1550 nm 10GBASE-ER

⁷ Typical Mode Field Diameter at 1310 nm

⁸ Fiber Codes are available for composite cables containing a wide variety of mixed fiber types within the same cable.

Call OCC Customer Service at 800.622.7711 for the Fiber Code for your composite cable configuration.

ORDERING INFORMATION

Digit No:	D	X				T				9		P
1	1	2	3	4	5	6	7	8	9	10	11	12
1 - 2	Distribution Series Ultra-Fox = DX											
3 - 5	Fiber count = 004-024											
6	Jacket type: Indoor/Outdoor Low Smoke PVC = T											
7 - 9	Fiber code: (See table above)											
10	Ultra-Fox fiber with 900µm tight-buffer = 9											
11	Standard jacket color: Any Fiber Type: Black = K Multimode (OM1, OM2): Orange = O Multimode (OM3, OM4): Aqua = Q Single-mode (SLX): Yellow = Y											
12	Rating: Plenum = P											

Example: 12-fiber indoor/outdoor plenum cable using Laser Ultra-Fox™ Low water peak, bend insensitive, single-mode fiber, plenum rated, yellow jacket

D	X	0	1	2	T	S	L	A	9	Y	P
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