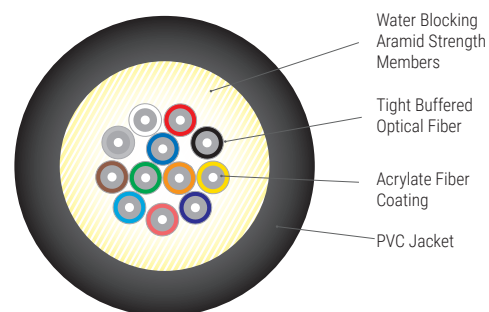
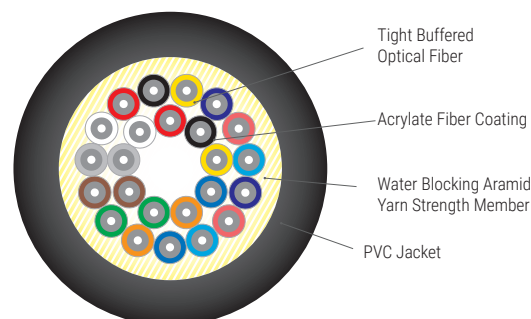


**CABLE CHARACTERISTICS**

<b>JACKET COLOR</b>	Aqua, Black, Orange, and Yellow
<b>JACKET MATERIAL</b>	Indoor / Outdoor PVC
<b>BUFFER MATERIAL</b>	PVC

**MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS**

<b>MECHANICAL PERFORMANCE PER</b>	ICEA S-104-696
<b>OPERATING TEMPERATURE</b>	-40°C to +70°C
<b>STORAGE TEMPERATURE</b>	-55°C to +70°C
<b>INSTALLATION TEMPERATURE (ACTUAL TEMPERATURE OF CABLE)</b>	-10°C to +60°C
<b>FLAME RETARDANCY</b>	MSHA Approved 30 CFR 7.408 Signal Cable

**12 FIBER DZ-SERIES CABLE**

**24 FIBER DZ-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)
4	4.4 (0.17)	17 (12)	660 (150)	200 (45)	8.8 (3.5)	4.4 (1.7)
6	4.4 (0.17)	19 (26)	660 (150)	200 (45)	8.8 (3.5)	4.4 (1.7)
8	4.8 (0.19)	26 (18)	660 (150)	200 (45)	9.6 (3.8)	4.8 (1.9)
12	6.7 (0.26)	37 (25)	660 (150)	200 (45)	13.4 (5.3)	6.7 (2.6)
18	7.9 (0.31)	48 (32)	1320 (300)	400 (90)	15.8 (6.2)	7.9 (3.1)
24	7.9 (0.31)	54 (36)	1320 (300)	400 (90)	15.8 (6.2)	7.9 (3.1)

**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**

**VISIT US AT  
OCCFIBER.COM**

## LASER GRADE FIBER PERFORMANCE

Fiber Code <sup>7</sup>	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)	Minimum Laser EMB Bandwidth* (MHz-km)	Minimum OFL LED Bandwidth** (MHz-km)
<b>WLS</b>	OM1 ISO/IEC 11801	62.5/125	0.275	850/1310	300/600	33/300 <sup>1</sup>	3.5/1.5	220/500	200/500
<b>ALT</b>	Laser Optimized OM3 Bend Insensitive ISO/IEC 11801	50/125	0.20	850/1310	1000/600	300/300 <sup>2</sup>	3.0/1.0 <sup>3</sup>	2000/500	1500/500
<b>ALE</b>	Laser Optimized OM4 Bend Insensitive ISO/IEC 11801	50/125	0.20	850/1310	1040/600	550 <sup>1</sup> /300 <sup>2</sup>	3.0/1.0 <sup>3</sup>	4700/500	3500/500
<b>SLX</b>	Low Water Peak Single-Mode ITU-T G.652.D	9 <sup>4</sup> /125	-	1310/1550	5 km <sup>4</sup>	10 km <sup>5</sup>	0.5/0.5	-	-

\* Minimum Laser Effective Modal Bandwidth (EMB)

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

<sup>^</sup> 1310 nm CWDM lasers (10GBASE-LX4)

<sup>1</sup> Reach assuming 3.0 dB maximum cabled attenuation at 850 nm and 1.3 dB total connection and splice loss

<sup>2</sup> Supports 220 meter 10GBASE-LRM distance, or 300 meter 10GBASE-LRM distance with 300 meter capable equipment

<sup>3</sup> 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

<sup>4</sup> 10 km for 1310 nm 1000BASE-LX10, and 5 km for 1310 nm 1000BASE-LX

<sup>5</sup> 10 km for 1310 nm 10GBASE-LR, and 40 km for 1550 nm 10GBASE-ER

<sup>6</sup> Typical Mode Field Diameter at 1310 nm

<sup>7</sup> Fiber Codes are available for composite cables containing a wide variety of mixed fiber types within the same cable.

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

## ORDERING INFORMATION

SERIES		FIBER COUNT			JACKET TYPE	FIBER CODE			TIGHT BUFFER	JACKET COLOR	RATING
<b>D</b>	<b>Z</b>				<b>D</b>				<b>9</b>		<b>S</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>

**Box No:** 1 – 2 Distribution Series Ultra-Fox = **DZ**  
 3 – 5 Fiber count = **004-024**  
 6 Jacket type: Indoor/Outdoor PVC = **D**  
 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 (WLS): Orange = **O**  
 10 Gigabit multimode (ALT, ALE): Aqua = **Q**  
 Single-mode (SLX): Yellow = **Y**  
 12 Rating: MSHA = **S**

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

<b>D</b>	<b>Z</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>D</b>	<b>S</b>	<b>L</b>	<b>X</b>	<b>9</b>	<b>Y</b>	<b>S</b>
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