



**Standards:**

- Sub-Units Tested to ICEA S-104-696 OFNR Listed
- GR-409-CORE
- ANSI/TIA-568-C.3
- RoHS

Temperature Range	
Operating	-20°C to +70°C
Storage	-40°C to +70°C
Installation	0°C to +60°C

As trends like virtualization and convergence bring increased traffic to 40G/100G data centers, cable with high fiber counts is needed to support growing bandwidth.

FiberExpress Flexible Ribbon Cable provides a new cable option in high-density, high-data-rate environments that rely on fiber for data transmission. Relative to cable size, Flexible Ribbon Cable provides the highest connectivity density to make every square foot count. Its small OD and superb flexibility make it easier and faster to handle, creating installation possibilities in narrow pathways and small conduit.

The ability to terminate multiple fibers at once – with sorting and ribbonization already completed – reduces labor resources and costs.

Glass Type	Fiber Grade Code (x)	Jacket Color	Subunit color	Operating Wavelength (nm)	Max Attenuation (dB/km)	Min. OFL Bandwidth (MHz-km)	Min. Laser Bandwidth EMB (MHz-km)	1 Gigabit Ethernet Min. Link Length (meters)	10 Gigabit Ethernet Min. Link Length (meters)
OM4 - 50/125mm Multi-Mode	4	Black	Erika Violet	850/1300	3.0/1.2	3500/500	4700/-	1040/550	550/-
OS2 - Single Mode	S	Black	Yellow	1310/1550	0.5/0.5	-	-	5000/-	10,000/-

### 12 Fiber Sub-Unit Constructions – Non-Armored

Fiber Count	Part Number <sup>1</sup>	Sub-Unit Dia. in (mm)	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
12	FDxR012R2	0.12 (3.0)	0.38 (9.7)	46 (68)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
24	FDxR024R2	0.12 (3.0)	0.38 (9.7)	47 (70)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
48	FDxR048R2	0.12 (3.0)	0.38 (9.7)	48 (72)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
72	FDxR072R2	0.12 (3.0)	0.46 (11.6)	70 (104)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
144	FDxR144R2	0.12 (3.0)	0.68 (17.3)	165 (245)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

### 24 Fiber Sub-Unit Constructions – Non-Armored

Fiber Count	Part Number <sup>1</sup>	Sub-Unit Dia. in (mm)	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
24	FDxR024R5	0.12 (3.0)	0.38 (9.7)	54 (80)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
48	FDxR048R5	0.12 (3.0)	0.38 (9.7)	53 (79)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
96	FDxR096R5	0.12 (3.0)	0.38 (9.7)	51 (76)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
144	FDxR144R5	0.12 (3.0)	0.46 (11.6)	74 (110)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
288	FDxR288R5	0.12 (3.0)	0.68 (17.3)	151 (225)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

### 12 Fiber Sub-Unit Constructions – Aluminum Interlock Armored

Fiber Count	Part Number <sup>1</sup>	Sub-Unit Dia. in (mm)	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
12	FDxR012F2	0.12 (3.0)	0.74 (18.7)	153 (228)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
24	FDxR024F2	0.12 (3.0)	0.74 (18.7)	154 (230)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
48	FDxR048F2	0.12 (3.0)	0.74 (18.7)	155 (232)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
72	FDxR072F2	0.12 (3.0)	0.78 (19.7)	184 (274)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
144	FDxR144F2	0.12 (3.0)	1.02 (25.9)	319 (475)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

### 24 Fiber Sub-Unit Constructions – Aluminum Interlock Armored

Fiber Count	Part Number <sup>1</sup>	Sub-Unit Dia. in (mm)	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
24	FDxR024F5	0.12 (3.0)	0.74 (18.7)	161 (240)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
48	FDxR048F5	0.12 (3.0)	0.74 (18.7)	160 (239)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
96	FDxR096F5	0.12 (3.0)	0.74 (18.7)	158 (236)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
144	FDxR144F5	0.12 (3.0)	0.78 (19.7)	188 (280)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD
288	FDxR288F5	0.12 (3.0)	1.07 (27.1)	322 (480)	300 (1320)	90 (400)	220	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code