



Standards:

- UL 1666, OFNR/FT4
- GR-409-CORE
- ICEA S-83-596
- RoHS & REACH

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.

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

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	Erika Violet	Erika Violet	850/1300	3.0/1.2	3500/500	4700/-	1040/550	550/-
OS2 - Single Mode	S	Yellow	Yellow	1310/1550	0.5/0.5	-	-	5000/-	10,000/-

72 Fiber Bundle Constructions – Non-Armored

Fiber Count	Part Number ¹	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
144	FIxR144RY	0.177 (4.5)	0.551 (14.0)	103 (153)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
216	FIxR216RY	0.177 (4.5)	0.551 (14.0)	107 (159)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
288	FIxR288RY	0.177 (4.5)	0.551 (14.0)	115 (165)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
432	FIxR432RY	0.177 (4.5)	0.650 (16.5)	165 (240)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
864	FIxR864RY	0.177 (4.5)	0.925 (23.5)	339 (505)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

144 Fiber Bundle Constructions – Non-Armored (Singlemode Only)

Fiber Count	Part Number ¹	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
144	FIxR144RZ	0.275 (7.0)	0.787 (20.0)	165 (240)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
288	FIxR288RZ	0.275 (7.0)	0.787 (20.0)	177 (266)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
432	FIxR432RZ	0.275 (7.0)	0.787 (20.0)	194 (288)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
576	FIxR576RZ	0.275 (7.0)	0.787 (20.0)	210 (300)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
1728	FIxRBBBRZ	0.275 (7.0)	1.09 (27.8)	410 (605)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

72 Fiber Bundle Constructions – Aluminum Interlock Armored

Fiber Count	Part Number ¹	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
144	FIxR144FY	0.177 (4.5)	0.87 (22.1)	237 (353)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
216	FIxR216FY	0.177 (4.5)	0.87 (22.1)	241 (359)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
288	FIxR288FY	0.177 (4.5)	0.87 (22.1)	249 (365)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
432	FIxR432FY	0.177 (4.5)	1.02 (25.9)	299 (440)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
864	FIxR864FY	0.177 (4.5)	1.30 (33.0)	547 (815)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

144 Fiber Bundle Constructions – Aluminum Interlock Armored (Singlemode Only)

Fiber Count	Part Number ¹	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
144	FIxR144FZ	0.275 (7.0)	1.17 (29.7)	346 (510)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
288	FIxR288FZ	0.275 (7.0)	1.17 (29.7)	358 (536)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
432	FIxR432FZ	0.275 (7.0)	1.17 (29.7)	375 (558)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
576	FIxR576FZ	0.275 (7.0)	1.17 (29.7)	391 (570)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code