



Standards:

- LSZH/OFNR-LS / CE CPR B2ca
- GR-409-CORE
- ANSI/TIA 568
- 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/-

Non-Unitized 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
12	FIxR012L0	0.12 (3.0)	0.19 (4.8)	15 (22)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
24	FIxR024L0	0.12 (3.0)	0.19 (4.8)	15 (22)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

12 Fiber Sub-Unit 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
12	FIxR012L2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
24	FIxR024L2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
36	FIxR036L2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
48	FIxR048L2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
60	FIxR060L2	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
72	FIxR072L2	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
96	FIxR096L2	0.12 (3.0)	0.61 (15.5)	171 (255)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
144	FIxR144L2	0.12 (3.0)	0.72 (18.4)	218 (325)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

24 Fiber Sub-Unit 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
24	FIxR012L5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
48	FIxR024L5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
72	FIxR036L5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
96	FIxR048L5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
144	FIxR060L5	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
192	FIxR072L5	0.12 (3.0)	0.61 (15.5)	171 (255)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
288	FIxR144L5	0.12 (3.0)	0.72 (18.4)	218 (325)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (x) with Fiber Grade Code

Non-Unitized 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
12	FIxR012C0	0.12 (3.0)	0.52 (13.2)	82 (122)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
24	FIxR024C0	0.12 (3.0)	0.52 (13.2)	82 (122)	150 (660)	45 (200)	440	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 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
12	FIxR012C2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
24	FIxR024C2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
36	FIxR036C2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
48	FIxR048C2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
60	FIxR060C2	0.12 (3.0)	0.83 (21.1)	210 (301)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
72	FIxR072C2	0.12 (3.0)	0.83 (21.1)	210 (301)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
96	FIxR096C2	0.12 (3.0)	0.96 (24.3)	332 (495)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
144	FIxR144C2	0.12 (3.0)	1.07 (27.1)	430 (636)	150 (660)	45 (200)	440	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 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
24	FIxR012C5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
48	FIxR024C5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
72	FIxR036C5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
96	FIxR048C5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
144	FIxR060C5	0.12 (3.0)	0.83 (21.1)	210 (301)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
192	FIxR072C5	0.12 (3.0)	0.96 (24.3)	332 (495)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
288	FIxR144C5	0.12 (3.0)	1.07 (27.1)	430 (636)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD

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