



Standards:

- NFPA 262 (OFNP) /FT6
- 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	FIxR012P0	0.12 (3.0)	0.19 (4.8)	15 (22)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
24	FIxR024P0	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	FIxR012P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
24	FIxR024P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
36	FIxR036P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
48	FIxR048P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
60	FIxR060P2	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
72	FIxR072P2	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
96	FIxR096P2	0.12 (3.0)	0.61 (15.5)	171 (255)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
144	FIxR144P2	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	FIxR024P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
48	FIxR048P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
72	FIxR072P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
96	FIxR096P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
144	FIxR144P5	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
192	FIxR192P5	0.12 (3.0)	0.61 (15.5)	171 (255)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
288	FIxR288P5	0.12 (3.0)	0.72 (18.4)	218 (325)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

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Non-Unitized Constructions – 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	FIxR012A0	0.12 (3.0)	0.52 (13.2)	82 (122)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
24	FIxR024A0	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 – 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	FIxR012A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
24	FIxR024A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
36	FIxR036A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
48	FIxR048A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
60	FIxR060A2	0.12 (3.0)	0.77 (19.7)	210 (301)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
72	FIxR072A2	0.12 (3.0)	0.77 (19.7)	210 (301)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
96	FIxR096A2	0.12 (3.0)	0.96 (24.3)	332 (495)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
144	FIxR144A2	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 – 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	FIxR024A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
48	FIxR048A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
72	FIxR072A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
96	FIxR096A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
144	FIxR144A5	0.12 (3.0)	0.77 (19.7)	210 (301)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
192	FIxR192A5	0.12 (3.0)	0.96 (24.3)	332 (495)	150 (660)	45 (200)	440	15x Cable OD	10x Cable OD
288	FIxR288A5	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