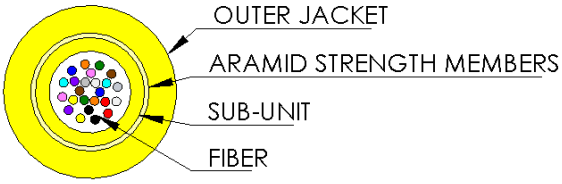
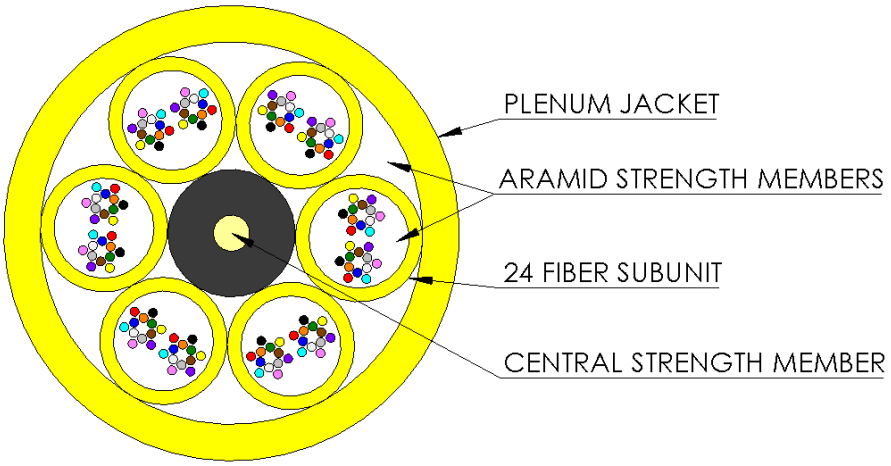
FiberExpress Indoor Plenum Flexible Ribbon Cable

Revision Number: 1 Revision Date: 3/9/2023





Standards:

- NFPA 262 OFNP/ OFCP FT6
- GR-409-CORE
- ANSI/TIA 568
- RoHS & REACH

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

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 (*)	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)
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 lbf (N)	Max. Long Term Load lbf (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
12	FI*R012P0	0.12 (3.0)	0.19 (4.8)	15 (22)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
24	FI*R024P0	0.12 (3.0)	0.19 (4.8)	15 (22)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (*) 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 lbf (N)	Max. Long Term Load lbf (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
12	FI*R012P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
24	FI*R024P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
36	FI*R036P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
48	FI*R048P2	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
60	FI*R060P2	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
72	FI*R072P2	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
96	FI*R096P2	0.12 (3.0)	0.61 (15.5)	171 (255)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
144	FI*R144P2	0.12 (3.0)	0.72 (18.4)	218 (325)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (*) 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 lbf (N)	Max. Long Term Load lbf (N)	Crush Rating N/cm	Min. Bend Radius Load	Min. Long Term Bend Radius
24	FI*R024P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
48	FI*R048P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
72	FI*R072P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
96	FI*R096P5	0.12 (3.0)	0.40 (10.2)	60 (90)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
144	FI*R144P5	0.12 (3.0)	0.50 (12.7)	107 (160)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
192	FI*R192P5	0.12 (3.0)	0.61 (15.5)	171 (255)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD
288	FI*R288P5	0.12 (3.0)	0.72 (18.4)	218 (325)	150 (660)	45 (200)	100	15x Cable OD	10x Cable OD

1. Substitute (*) with Fiber Grade Code

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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	FI*R012A0	0.12 (3.0)	0.52 (13.2)	82 (122)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
24	FI*R024A0	0.12 (3.0)	0.52 (13.2)	82 (122)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD

1. Substitute (*) 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	FI*R012A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
24	FI*R024A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
36	FI*R036A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
48	FI*R048A2	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
60	FI*R060A2	0.12 (3.0)	0.77 (19.7)	210 (301)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
72	FI*R072A2	0.12 (3.0)	0.77 (19.7)	210 (301)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
96	FI*R096A2	0.12 (3.0)	0.96 (24.3)	332 (495)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
144	FI*R144A2	0.12 (3.0)	1.07 (27.1)	430 (636)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD

1. Substitute (*) 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	FI*R024A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
48	FI*R048A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
72	FI*R072A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
96	FI*R096A5	0.12 (3.0)	0.74 (18.7)	175 (255)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
144	FI*R144A5	0.12 (3.0)	0.77 (19.7)	210 (301)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
192	FI*R192A5	0.12 (3.0)	0.96 (24.3)	332 (495)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD
288	FI*R288A5	0.12 (3.0)	1.07 (27.1)	430 (636)	150 (660)	45 (200)	440	20x Cable OD	10x Cable OD

1. Substitute (*) with Fiber Grade Code