

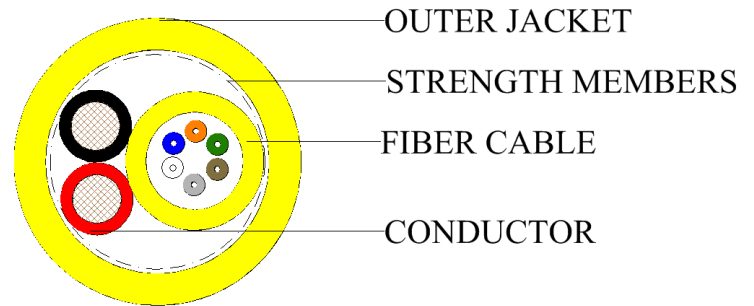


FiberExpress (FX) Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation and labor savings by requiring just a single cable pull. Various cable constructions offer unlimited application flexibility.

Standards:

- ICEA S-120-742
- RoHS
- ANSI/TIA-568-C.3

	Temperature Range	
	Riser	Plenum
Operating	-20°C to +70°C -4°F to +158°F	0°C to +70°C 32°F to +158°F
Storage	-40°C to +70°C -40°F to +158°F	-40°C to +70°C -40°F to +158°F
Installation	-10°C to +60°C 14°F to +140°F	0°C to +60°C 32°F to +140°F



Glass Type	Fiber Grade Code (*)	Subunit and Jacket Color	Operating Wavelength (nm)	Max Attenuation (dB/km)	Min. OFL Bandwidth (MHz-km)	Min. Laser Bandwidth (MHz-km)	1 Gigabit Ethernet Min. Link Length (meters)	10 Gigabit Ethernet Min. Link Length (meters)
OS2 - Single Mode	S	Yellow	1310/1550	0.5/0.5	-	-	5000/-	10,000/40,000
OM3 - 50/125mm Multi-Mode	3	Aqua	850/1300	3.0/1.0	1500/500	2000/-	1000/550	300/-
OM4 - 50/125mm Multi-Mode	4	Erika Violet	850/1300	3.0/1.0	3500/500	4700/-	1100/550	400/-
OM5 - 50/125mm Multi-Mode	5	Lime Green	850/1300	3.0/1.0	3500/500	4700/-	1100/550	400/-

OM1 Fiber available upon Request

Riser - UL Type CL3R-OF

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Nom. Jacket Dia. in (mm)
12	2	HI*D0020212RJ	0.355 (9.0)	82 (122)	600 (2670)	180 (800)	0.355 (9.0)
12	4	HI*D0040212RJ	0.358 (9.1)	84 (125)	600 (2670)	180 (800)	0.358 (9.1)
12	6	HI*D0060212RJ	0.409 (10.4)	88 (131)	600 (2670)	180 (800)	0.409 (10.4)
14	2	HI*D0020214RJ	0.341 (8.7)	60 (89)	600 (2670)	180 (800)	0.341 (8.7)
14	4	HI*D0040214RJ	0.358 (9.1)	63 (94)	600 (2670)	180 (800)	0.358 (9.1)
14	6	HI*D0060214RJ	0.378 (9.6)	66 (98)	600 (2670)	180 (800)	0.378 (9.6)

¹ Substitute (*) with Fiber Grade Code

Riser - UL Type CMR-OF

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Max. Long Term Load lbf (N)
16	2	HI*D0020216RJ	0.326 (8.3)	50 (74)	600 (2670)	180 (800)	180 (800)
16	4	HI*D0040216RJ	0.343 (8.7)	53 (79)	600 (2670)	180 (800)	180 (800)
16	6	HI*D0060216RJ	0.363 (9.2)	56 (83)	600 (2670)	180 (800)	180 (800)
18	2	HI*D0020218RJ	0.316 (8.0)	45 (67)	600 (2670)	180 (800)	180 (800)
18	4	HI*D0040218RJ	0.331 (8.4)	48 (71)	600 (2670)	180 (800)	180 (800)
18	6	HI*D0060218RJ	0.349 (8.9)	50 (74)	600 (2670)	180 (800)	180 (800)
20	2	HI*D0020220RJ	0.309 (7.8)	39 (58)	600 (2670)	180 (800)	180 (800)
20	4	HI*D0040220RJ	0.325 (8.3)	41 (61)	600 (2670)	180 (800)	180 (800)
20	6	HI*D0060202RJ	0.345 (8.8)	44 (65)	600 (2670)	180 (800)	180 (800)

¹ Substitute (*) with Fiber Grade Code

Riser - UL Type CL3R-OF - Aluminum Interlocking Armor

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Max. Long Term Load lbf (N)
12	2	HI*D0020212FJ	0.614 (15.6)	180 (268)	600 (2670)	180 (800)	180 (800)
12	4	HI*D0040212FJ	0.614 (15.6)	182 (271)	600 (2670)	180 (800)	180 (800)
12	6	HI*D0060212FJ	0.664 (16.9)	195 (290)	600 (2670)	180 (800)	180 (800)
14	2	HI*D0020214FJ	0.594 (15.1)	154 (229)	600 (2670)	180 (800)	180 (800)
14	4	HI*D0040214FJ	0.614 (15.6)	161 (240)	600 (2670)	180 (800)	180 (800)
14	6	HI*D0060214FJ	0.634 (16.1)	168 (250)	600 (2670)	180 (800)	180 (800)

¹ Substitute (*) with Fiber Grade Code

Riser - UL Type CMR-OF - Aluminum Interlocking Armor

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Max. Long Term Load lbf (N)
16	2	HI*D0020216FJ	0.584 (14.8)	142 (211)	600 (2670)	180 (800)	180 (800)
16	4	HI*D0040216FJ	0.594 (15.1)	147 (219)	600 (2670)	180 (800)	180 (800)
16	6	HI*D0060216FJ	0.614 (15.6)	154 (229)	600 (2670)	180 (800)	180 (800)
18	2	HI*D0020218FJ	0.574 (14.6)	135 (201)	600 (2670)	180 (800)	180 (800)
18	4	HI*D0040218FJ	0.584 (14.8)	140 (208)	600 (2670)	180 (800)	180 (800)
18	6	HI*D0060218FJ	0.604 (15.3)	146 (217)	600 (2670)	180 (800)	180 (800)
20	2	HI*D0020220FJ	0.564 (14.3)	128 (190)	600 (2670)	180 (800)	180 (800)
20	4	HI*D0040220FJ	0.584 (14.8)	133 (198)	600 (2670)	180 (800)	180 (800)
20	6	HI*D0060202FJ	0.604 (15.3)	140 (208)	600 (2670)	180 (800)	180 (800)

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CL3P-OF

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Min. Bend Radius Load	Min. Long Term Bend Radius
12	2	HI*D0020212PJ	0.362 (9.2)	62 (92)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
12	4	HI*D0040212PJ	0.379 (9.6)	66 (98)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
12	6	HI*D0060212PJ	0.399 (10.1)	69 (103)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
14	2	HI*D0020214PJ	0.352 (8.9)	57 (85)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
14	4	HI*D0040214PJ	0.367 (9.3)	60 (89)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
14	6	HI*D0060214PJ	0.385 (9.8)	63 (94)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CMP-OF

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Min. Bend Radius Load	Min. Long Term Bend Radius
16	2	HI*D0020216PJ	0.321 (8.2)	54 (80)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
16	4	HI*D0040216PJ	0.312 (7.9)	52 (77)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
16	6	HI*D0060216PJ	0.325 (8.3)	54 (80)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
18	2	HI*D0020218PJ	0.309 (7.8)	48 (71)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
18	4	HI*D0040218PJ	0.300 (7.6)	46 (68)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
18	6	HI*D0060218PJ	0.317 (8.1)	48 (71)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
20	2	HI*D0020220PJ	0.301 (7.6)	41 (61)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
20	4	HI*D0040220PJ	0.292 (7.4)	39 (58)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD
20	6	HI*D0060202PJ	0.308 (7.8)	42 (63)	600 (2670)	180 (800)	15x Cable OD	10x Cable OD

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CL3P-OF - Aluminum Interlocking Armor

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Min. Bend Radius Load	Min. Long Term Bend Radius
12	2	HI*D0020212AJ	0.614 (15.6)	167 (249)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
12	4	HI*D0040212AJ	0.634 (16.1)	175 (260)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
12	6	HI*D0060212AJ	0.654 (16.6)	182 (271)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
14	2	HI*D0020214AJ	0.604 (15.3)	160 (238)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
14	4	HI*D0040214AJ	0.624 (15.8)	167 (249)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
14	6	HI*D0060214AJ	0.644 (16.4)	174 (259)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CMP-OF - Aluminum Interlocking Armor

AWG Size	Fiber Count	Part Number ¹	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)	Min. Bend Radius Load	Min. Long Term Bend Radius
16	2	HI*D0020216AJ	0.574 (14.6)	151 (225)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
16	4	HI*D0040216AJ	0.564 (14.3)	147 (219)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
16	6	HI*D0060216AJ	0.584 (14.8)	153 (228)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
18	2	HI*D0020218AJ	0.564 (14.3)	143 (213)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
18	4	HI*D0040218AJ	0.554 (14.1)	139 (207)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
18	6	HI*D0060218AJ	0.574 (14.6)	145 (216)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
20	2	HI*D0020220AJ	0.554 (14.1)	134 (199)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
20	4	HI*D0040220AJ	0.544 (13.8)	130 (193)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD
20	6	HI*D0060202AJ	0.564 (14.3)	137 (204)	600 (2670)	180 (800)	20x Cable OD	10x Cable OD

¹ Substitute (*) with Fiber Grade Code

STANDARD

FX Fiber Cable		Fiber Type		Family		Fiber Count		Conductor Count		Copper Type		Flammability		Subunit Type / Configuration	
HI	Indoor Hybrid Cable	3	OM3	D	Distribution	002	2 Fibers	02	2 Conductors	12	12 AWG	P	Plenum (OFNP)	J	COPPER: Stranded or Category Cable FIBER: Up to 6 x 900um Fibers
		4	OM4			004	4 Fibers			14	14 AWG	R	Riser (OFNR)		
		S	OS2 (G.657.A1)			006	6 Fibers			16	16 AWG	F	Riser Interlocked Aluminum Armor (OFNR)		
										18	18 AWG	A	Plenum Interlocked Aluminum Armor		
										20	20 AWG				