

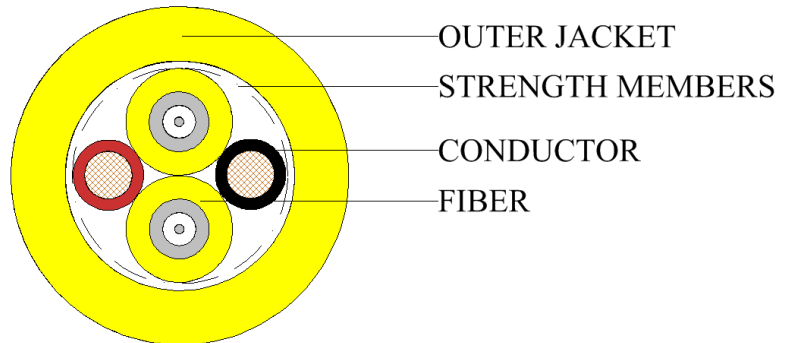


FiberExpress (FX) Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation 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 (x)	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)
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/-
OS2 - Single Mode	S	Yellow	1310/1550	0.5/0.5	-	-	5000/-	10,000/40,000
OM2 Fiber available upon Request								

Riser - UL Type CL3R-OF – 3mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212RC	See Table	0.327 (8.3)	76 (113)	300 (1330)	90 (400)
14	2	HIxB0020214RC	See Table	0.327 (8.3)	76 (113)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CMR-OF – 3mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216RC	See Table	0.300 (7.6)	48 (71)	300 (1330)	90 (400)
18	2	HIxB0020218RC	See Table	0.300 (7.6)	43 (64)	300 (1330)	90 (400)
20	2	HIxB0020220RC	See Table	0.318 (8.1)	38 (57)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CL3R-OF – 3mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212FC	See Table	0.584 (14.8)	168 (250)	300 (1330)	90 (400)
14	2	HIxB0020214FC	See Table	0.584 (14.8)	168 (250)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CMR-OF – 3mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216FC	See Table	0.554 (14.1)	135 (201)	300 (1330)	90 (400)
18	2	HIxB0020218FC	See Table	0.554 (14.1)	130 (193)	300 (1330)	90 (400)
20	2	HIxB0020220FC	See Table	0.574 (14.6)	128 (190)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CL3R-OF – 2mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212RB	See Table	0.304 (7.7)	70 (104)	300 (1330)	90 (400)
14	2	HIxB0020214RB	See Table	0.267 (6.8)	49 (73)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CMR-OF – 2mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216RB	See Table	0.252 (6.4)	38 (57)	300 (1330)	90 (400)
18	2	HIxB0020218RB	See Table	0.246 (6.2)	32 (48)	300 (1330)	90 (400)
20	2	HIxB0020220RB	See Table	0.219 (5.6)	29 (43)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CL3R-OF – 2mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212FB	See Table	0.554 (14.1)	157 (234)	300 (1330)	90 (400)
14	2	HIxB0020214FB	See Table	0.524 (13.3)	130 (193)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Riser - UL Type CMR-OF – 2mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216FB	See Table	0.504 (12.8)	115 (171)	300 (1330)	90 (400)
18	2	HIxB0020218FB	See Table	0.504 (12.8)	109 (162)	300 (1330)	90 (400)
20	2	HIxB0020220FB	See Table	0.474 (12.0)	101 (150)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CL3P-OF – 3mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212PC	See Table	0.327 (8.3)	83 (124)	300 (1330)	90 (400)
14	2	HIxB0020214PC	See Table	0.327 (8.3)	63 (94)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CMP-OF – 3mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216PC	See Table	0.300 (7.6)	52 (77)	300 (1330)	90 (400)
18	2	HIxB0020218PC	See Table	0.300 (7.6)	47 (70)	300 (1330)	90 (400)
20	2	HIxB0020220PC	See Table	0.318 (8.1)	42 (63)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CL3P-OF – 2mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212PB	See Table	0.304 (7.7)	74 (110)	300 (1330)	90 (400)
14	2	HIxB0020214PB	See Table	0.267 (6.8)	53 (79)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CMP-OF – 2mm Sub Units

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216PB	See Table	0.252 (6.4)	43 (64)	300 (1330)	90 (400)
18	2	HIxB0020218PB	See Table	0.246 (6.2)	37 (55)	300 (1330)	90 (400)
20	2	HIxB0020220PB	See Table	0.220 (5.6)	29 (43)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CL3P-OF – 2mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212AB	See Table	0.584 (14.8)	182 (271)	300 (1330)	90 (400)
14	2	HIxB0020214AB	See Table	0.584 (14.8)	162 (241)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CMP-OF – 3mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216AC	See Table	0.554 (14.1)	145 (216)	300 (1330)	90 (400)
18	2	HIxB0020218AC	See Table	0.554 (14.1)	140 (208)	300 (1330)	90 (400)
20	2	HIxB0020220AC	See Table	0.574 (14.6)	139 (207)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CL3P-OF – 3mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
12	2	HIxB0020212AC	See Table	0.554 (14.1)	167 (249)	300 (1330)	90 (400)
14	2	HIxB0020214AC	See Table	0.524 (13.3)	140 (208)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

Plenum - UL Type CMP-OF – 2mm Sub Units – Aluminum Interlocked Armor

AWG Size	Fiber Count	Part Number ¹	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)
16	2	HIxB0020216AB	See Table	0.504 (12.8)	126 (188)	300 (1330)	90 (400)
18	2	HIxB0020218AB	See Table	0.504 (12.8)	120 (179)	300 (1330)	90 (400)
20	2	HIxB0020220AB	See Table	0.474 (12.0)	106 (158)	300 (1330)	90 (400)
1 Substitute (x) with Fiber Grade Code							

STANDARD															
FX Fiber Cable		Fiber Type		Family		Fiber Count		Conductor Count		Copper Type		Flammability & Detection		Subunit Type / Configuration	
HD		3		B		002		02		12		R		B	
HI	IndoorHybrid Cable	3	OM3	B	Breakout	001	1 Fiber	01	1 Conductor	12	12 AWG	P	Plenum	B	COPPER: Stranded or Category Cable FIBER: 2.0mm Sub, 1 x 900um Fiber / Sub
		4	OM4			002	2 Fibers	02	2 Conductors	14	14 AWG	R	Riser	C	COPPER: Stranded or Category Cable FIBER: 3.0mm Sub, 1 x 900um Fiber / Sub
		S	OS2 (G.657.A1)							16	16 AWG	F	Riser Interlocked Aluminum Armor		
										18	18 AWG	A	Plenum Interlocked Aluminum Armor		
										20	20 AWG				