

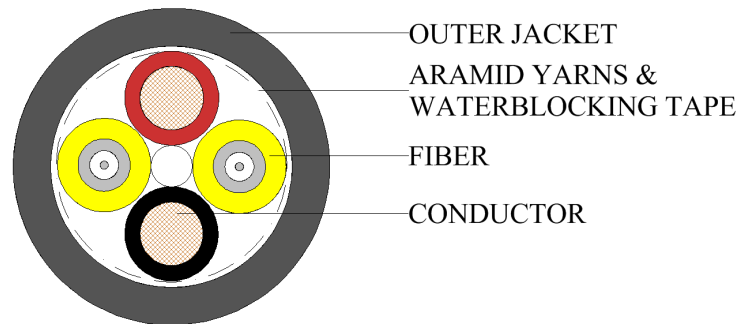


FiberExpress (FX) Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation 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	-40°C to +70°C -40°F to +158°F	-40°C to +70°C -40°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 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	HDxB0020212RC	Black	0.402 (10.2)	98 (146)	600 (2700)	180 (810)
14	2	HDxB0020214RC	Black	0.402 (10.2)	73 (109)	600 (2700)	180 (810)

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	HDxB0020216RC	Black	0.375 (9.5)	64 (95)	600 (2700)	180 (810)
18	2	HDxB0020218RC	Black	0.375 (9.5)	59 (88)	600 (2700)	180 (810)
20	2	HDxB0020220RC	Black	0.393 (10.0)	55 (82)	600 (2700)	180 (810)

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	HDxB0020212FC	Black	0.700 (17.8)	228 (339)	600 (2700)	180 (810)
14	2	HDxB0020214FC	Black	0.700 (17.8)	203 (302)	600 (2700)	180 (810)

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	HDxB0020216FC	Black	0.670 (17.0)	188 (280)	600 (2700)	180 (810)
18	2	HDxB0020218FC	Black	0.670 (17.0)	183 (272)	600 (2700)	180 (810)
20	2	HDxB0020220FC	Black	0.690 (17.5)	183 (272)	600 (2700)	180 (810)

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	HDxB0020212RB	Black	0.379 (9.6)	85 (126)	600 (2700)	180 (810)
14	2	HDxB0020214RB	Black	0.333 (8.5)	62 (93)	600 (2700)	180 (810)

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	HDxB0020216RB	Black	0.327 (8.3)	53 (78)	600 (2700)	180 (810)
18	2	HDxB0020218RB	Black	0.312 (7.9)	45 (67)	600 (2700)	180 (810)
20	2	HDxB0020220RB	Black	0.295 (7.5)	39 (58)	600 (2700)	180 (810)

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	HDxB0020212FB	Black	0.670 (17.0)	209 (311)	600 (2700)	180 (810)
14	2	HDxB0020214FB	Black	0.630 (16.0)	177 (263)	600 (2700)	180 (810)

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	HDxB0020216FB	Black	0.620 (15.7)	166 (247)	600 (2700)	180 (810)
18	2	HDxB0020218FB	Black	0.610 (15.5)	155 (231)	600 (2700)	180 (810)
20	2	HDxB0020220FB	Black	0.590 (15.0)	145 (216)	600 (2700)	180 (810)

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	HDxB0020212PC	Black	0.366 (9.3)	88 (131)	600 (2700)	180 (810)
14	2	HDxB0020214PC	Black	0.366 (9.3)	68 (101)	600 (2700)	180 (810)

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	HDxB0020216PC	Black	0.339 (8.6)	57 (85)	600 (2700)	180 (810)
18	2	HDxB0020218PC	Black	0.339 (8.6)	52 (77)	600 (2700)	180 (810)
20	2	HDxB0020220PC	Black	0.357 (9.1)	47 (70)	600 (2700)	180 (810)

¹ Substitute (x) with Fiber Grade Code

STANDARD

FX Fiber Cable		Fiber Type		Family		Fiber Count		Conductor Count		Copper Type		Flammability		Subunit Type / Configuration		
HD		3		B		002		02		12		R		B		
HD	Indoor/Outdoor Hybrid Cable	3	OM3	B	Breakout	001	1 Fiber	01	1 Conductor	12	12 AWG	P	Plenum (OFNP)	B	COPPER: Stranded or Category Cable FIBER: 2.0mm Sub, 1 x 900um Fiber / Sub	
			4												OM4	002
		S	OS2 (G.657.A1)								16	16 AWG	F	Riser Interlocked Aluminum Armor (OFCR)		
											18	18 AWG				
									20	20 AWG						