

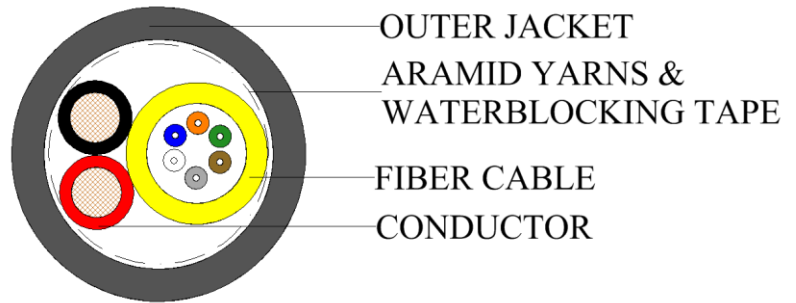


FiberExpress (FX) Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation 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

AWG Size	Fiber Count	Part Number <sup>1</sup>	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	HDxD0020212RJ	Black	0.415 (10.5)	98 (146)	600 (2700)	180 (810)
12	4	HDxD0040212RJ	Black	0.433 (11.0)	102 (152)	600 (2700)	180 (810)
12	6	HDxD0060212RJ	Black	0.484 (12.3)	108 (161)	600 (2700)	180 (810)
14	2	HDxD0020214RJ	Black	0.415 (10.5)	78 (116)	600 (2700)	180 (810)
14	4	HDxD0040214RJ	Black	0.433 (11.0)	82 (122)	600 (2700)	180 (810)
14	6	HDxD0060214RJ	Black	0.453 (11.5)	85 (127)	600 (2700)	180 (810)

<sup>1</sup> Substitute (x) with Fiber Grade Code

## Riser - UL Type CMR-OF

AWG Size	Fiber Count	Part Number <sup>1</sup>	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	HDxD0020216RJ	Black	0.401 (10.2)	68 (101)	600 (2700)	180 (810)
16	4	HDxD0040216RJ	Black	0.418 (10.6)	71 (106)	600 (2700)	180 (810)
16	6	HDxD0060216RJ	Black	0.438 (11.1)	75 (112)	600 (2700)	180 (810)
18	2	HDxD0020218RJ	Black	0.391 (9.9)	62 (92)	600 (2700)	180 (810)
18	4	HDxD0040218RJ	Black	0.406 (10.3)	65 (97)	600 (2700)	180 (810)
18	6	HDxD0060218RJ	Black	0.424 (10.8)	68 (101)	600 (2700)	180 (810)
20	2	HDxD0020220RJ	Black	0.384 (9.8)	55 (82)	600 (2700)	180 (810)
20	4	HDxD0040220RJ	Black	0.400 (10.2)	58 (86)	600 (2700)	180 (810)
20	6	HDxD0060202RJ	Black	0.420 (10.7)	62 (92)	600 (2700)	180 (810)

<sup>1</sup> Substitute (x) with Fiber Grade Code

## Riser - UL Type CL3R-OF - Aluminum Interlocking Armor

AWG Size	Fiber Count	Part Number <sup>1</sup>	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	HDxD0020212FJ	Black	0.710 (18.0)	230 (342)	600 (2700)	180 (810)
12	4	HDxD0040212FJ	Black	0.730 (18.5)	239 (356)	600 (2700)	180 (810)
12	6	HDxD0060212FJ	Black	0.780 (19.8)	256 (381)	600 (2700)	180 (810)
14	2	HDxD0020214FJ	Black	0.710 (18)	210 (313)	600 (2700)	180 (810)
14	4	HDxD0040214FJ	Black	0.730 (18.5)	219 (326)	600 (2700)	180 (810)
14	6	HDxD0060214FJ	Black	0.750 (19.1)	226 (336)	600 (2700)	180 (810)

<sup>1</sup> Substitute (x) with Fiber Grade Code

## Riser - UL Type CMR-OF - Aluminum Interlocking Armor

AWG Size	Fiber Count	Part Number <sup>1</sup>	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	HDxD0020216FJ	Black	0.700 (17.8)	198 (295)	600 (2700)	180 (810)
16	4	HDxD0040216FJ	Black	0.710 (18)	203 (302)	600 (2700)	180 (810)
16	6	HDxD0060216FJ	Black	0.730 (18.5)	212 (315)	600 (2700)	180 (810)
18	2	HDxD0020218FJ	Black	0.690 (17.5)	190 (283)	600 (2700)	180 (810)
18	4	HDxD0040218FJ	Black	0.700 (17.8)	195 (290)	600 (2700)	180 (810)
18	6	HDxD0060218FJ	Black	0.720 (18.3)	203 (302)	600 (2700)	180 (810)
20	2	HDxD0020220FJ	Black	0.680 (17.3)	181 (269)	600 (2700)	180 (810)
20	4	HDxD0040220FJ	Black	0.690 (17.5)	186 (277)	600 (2700)	180 (810)
20	6	HDxD0060202FJ	Black	0.710 (18)	194 (289)	600 (2700)	180 (810)

<sup>1</sup> Substitute (x) with Fiber Grade Code

## Plenum - UL Type CL3P-OF

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AWG Size	Fiber Count	Part Number <sup>1</sup>	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	HDxD0020212PJ	Black	0.404 (10.3)	91 (135)	600 (2700)	180 (810)
12	4	HDxD0040212PJ	Black	0.395 (10.0)	89 (132)	600 (2700)	180 (810)
12	6	HDxD0060212PJ	Black	0.411 (10.4)	91 (135)	600 (2700)	180 (810)
14	2	HDxD0020214PJ	Black	0.373 (9.5)	69 (103)	600 (2700)	180 (810)
14	4	HDxD0040214PJ	Black	0.365 (9.3)	67 (100)	600 (2700)	180 (810)
14	6	HDxD0060214PJ	Black	0.376 (9.6)	69 (103)	600 (2700)	180 (810)

<sup>1</sup> Substitute (x) with Fiber Grade Code

Plenum - UL Type CMP-OF							
AWG Size	Fiber Count	Part Number <sup>1</sup>	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	HDxD0020216PJ	Black	0.360 (9.1)	59 (88)	600 (2700)	180 (810)
16	4	HDxD0040216PJ	Black	0.351 (8.9)	57 (85)	600 (2700)	180 (810)
16	6	HDxD0060216PJ	Black	0.364 (9.2)	59 (88)	600 (2700)	180 (810)
18	2	HDxD0020218PJ	Black	0.348 (8.8)	53 (79)	600 (2700)	180 (810)
18	4	HDxD0040218PJ	Black	0.339 (8.6)	51 (76)	600 (2700)	180 (810)
18	6	HDxD0060218PJ	Black	0.356 (9.0)	53 (79)	600 (2700)	180 (810)
20	2	HDxD0020220PJ	Black	0.340 (8.6)	46 (68)	600 (2700)	180 (810)
20	4	HDxD0040220PJ	Black	0.331 (8.4)	44 (65)	600 (2700)	180 (810)
20	6	HDxD0060220PJ	Black	0.347 (8.8)	46 (68)	600 (2700)	180 (810)

<sup>1</sup> Substitute (x) with Fiber Grade Code

STANDARD															
FX Fiber Cable		Fiber Type		Family		Fiber Count		Conductor Count		Copper Type		Flammability		Subunit Type / Configuration	
HD	Indoor/Outdoor 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			14	14 AWG			R	Riser (OFNR)				
		S	OS2 (G.657.A1)			16	16 AWG			F	Riser Interlocked Aluminum Armor (OFCR)				
						18	18 AWG								
									20	20 AWG					