

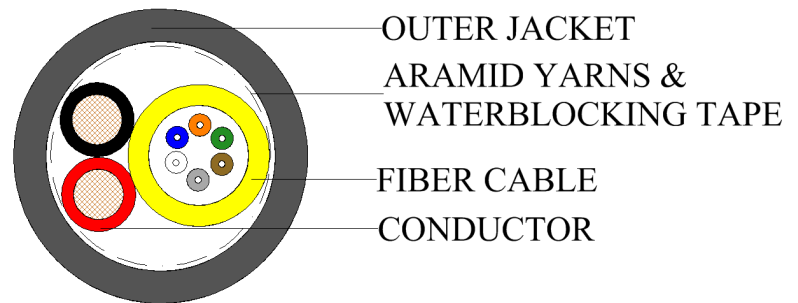


FiberExpress (FX) Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation 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	
Operating	-40°C to +70°C -40°F to +158°F
Storage	-40°C to +70°C -40°F to +158°F
Installation	-10°C to +60°C 14°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 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	HDxD0020212LJ	Black	0.372 (9.4)	98 (146)	600 (2700)	180 (810)
12	4	HDxD0040212LJ	Black	0.390 (9.9)	108 (161)	600 (2700)	180 (810)
12	6	HDxD0060212LJ	Black	0.441 (11.2)	116 (173)	600 (2700)	180 (810)
14	2	HDxD0020214LJ	Black	0.358 (9.1)	82 (122)	600 (2700)	180 (810)
14	4	HDxD0040214LJ	Black	0.385 (9.8)	89 (132)	600 (2700)	180 (810)
14	6	HDxD0060214LJ	Black	0.41 (10.4)	94 (140)	600 (2700)	180 (810)

¹ Substitute (x) with Fiber Grade Code

Riser - UL Type CMR-OF

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	HDxD0020216LJ	Black	0.334 (8.5)	70 (104)	600 (2700)	180 (810)
16	4	HDxD0040216LJ	Black	0.351 (8.9)	75 (112)	600 (2700)	180 (810)
16	6	HDxD0060216LJ	Black	0.371 (9.4)	80 (119)	600 (2700)	180 (810)
18	2	HDxD0020218LJ	Black	0.324 (8.2)	58 (86)	600 (2700)	180 (810)
18	4	HDxD0040218LJ	Black	0.339 (8.6)	62 (92)	600 (2700)	180 (810)
18	6	HDxD0060218LJ	Black	0.357 (9.1)	67 (100)	600 (2700)	180 (810)
20	2	HDxD0020220LJ	Black	0.317 (8.1)	56 (83)	600 (2700)	180 (810)
20	4	HDxD0040220LJ	Black	0.333 (8.5)	61 (91)	600 (2700)	180 (810)
20	6	HDxD0060202LJ	Black	0.353 (9.0)	66 (98)	600 (2700)	180 (810)

¹ Substitute (x) with Fiber Grade Code

Riser - UL Type CL3R-OF – 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	HDxD0020212CJ	Black	0.624 (15.8)	200 (298)	300 (1330)	90 (400)
12	4	HDxD0040212CJ	Black	0.644 (16.4)	214 (318)	300 (1330)	90 (400)
12	6	HDxD0060212CJ	Black	0.694 (17.6)	232 (345)	300 (1330)	90 (400)
14	2	HDxD0020214CJ	Black	0.614 (15.6)	182 (271)	300 (1330)	90 (400)
14	4	HDxD0040214CJ	Black	0.644 (16.4)	195 (290)	300 (1330)	90 (400)
14	6	HDxD0060214CJ	Black	0.664 (16.9)	204 (304)	300 (1330)	90 (400)

¹ Substitute (x) with Fiber Grade Code

Riser - UL Type CMR-OF – 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	HDxD0020216CJ	Black	0.584 (14.8)	165 (246)	300 (1330)	90 (400)
16	4	HDxD0040216CJ	Black	0.604 (15.3)	173 (257)	300 (1330)	90 (400)
16	6	HDxD0060216CJ	Black	0.624 (15.8)	182 (271)	300 (1330)	90 (400)
18	2	HDxD0020218CJ	Black	0.574 (14.6)	151 (225)	300 (1330)	90 (400)
18	4	HDxD0040218CJ	Black	0.594 (15.1)	159 (237)	300 (1330)	90 (400)
18	6	HDxD0060218CJ	Black	0.614 (15.6)	167 (249)	300 (1330)	90 (400)
20	2	HDxD0020220CJ	Black	0.574 (14.6)	149 (222)	300 (1330)	90 (400)
20	4	HDxD0040220CJ	Black	0.584 (14.8)	156 (232)	300 (1330)	90 (400)
20	6	HDxD0060220CJ	Black	0.604 (15.3)	164 (244)	300 (1330)	90 (400)

¹ Substitute (x) with Fiber Grade Code

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	L	LSZH (CMR-OF / CL3R-OF)	J	COPPER: Stranded or Category Cable FIBER: One Sub Unit of Fiber
		4	OM4			004	4 Fibers			14	14 AWG				
		S	OS2 (G.657.A1)			006	6 Fibers			16	16 AWG				
										18	18 AWG				
										20	20 AWG				