



Revision Number: 6 Revision Date: 10/7/2022

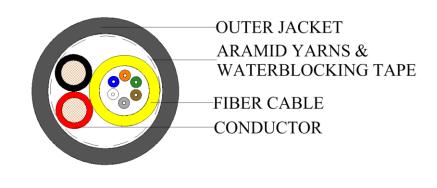


Fiber Express (FX) Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation 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 Rang	ge								
Riser Plenum										
Operating	$-40^{\circ}$ C to $+70^{\circ}$ C $-40^{\circ}$ F to $+158^{\circ}$ F	-40°C to +70°C -40°F to +158°F								
Storage	$-40^{\circ}$ C to $+70^{\circ}$ C $-40^{\circ}$ F to $+158^{\circ}$ F	$-40^{0}$ C to $+70^{0}$ C $-40^{0}$ F to $+158^{0}$ F								
Installation	$-10^{0}$ C to $+60^{0}$ C $14^{0}$ F to $+140^{0}$ F	$0^{0}$ C to $+60^{0}$ C $32^{0}$ F to $+140^{0}$ 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/-

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			Riser - UL Ty	pe 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 lbf (N)	Max. Long Term Load lbf (N)
12	2	HD*D0020212RJ	Black	0.364 (9.2)	95 (141)	600 (2700)	180 (810)
12	4	HD*D0040212RJ	Black	0.382 (9.7)	99 (147)	600 (2700)	180 (810)
12	6	HD*D0060212RJ	Black	0.433 (11.0)	105 (156)	600 (2700)	180 (810)
14	2	HD*D0020214RJ	Black	0.364 (9.2)	75 (112)	600 (2700)	180 (810)
14	4	HD*D0040214RJ	Black	0.382 (9.7)	79 (118)	600 (2700)	180 (810)
14	6	HD*D0060214RJ	Black	0.402 (10.2)	82 (122)	600 (2700)	180 (810)
1 Substitute (*) w	ith Fiber Grade Cod	de					

			Riser - UL Ty	pe 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 lbf (N)	Max. Long Term Load lbf (N)
16	2	HD*D0020216RJ	Black	0.350 (8.9)	65 (97)	600 (2700)	180 (810)
16	4	HD*D0040216RJ	Black	0.367 (9.3)	68 (101)	600 (2700)	180 (810)
16	6	HD*D0060216RJ	Black	0.387 (9.8)	72 (107)	600 (2700)	180 (810)
18	2	HD*D0020218RJ	Black	0.340 (8.6)	59 (88)	600 (2700)	180 (810)
18	4	HD*D0040218RJ	Black	0.355 (9.0)	62 (92)	600 (2700)	180 (810)
18	6	HD*D0060218RJ	Black	0.373 (9.5)	65 (97)	600 (2700)	180 (810)
20	2	HD*D0020220RJ	Black	0.333 (8.5)	52 (77)	600 (2700)	180 (810)
20	4	HD*D0040220RJ	Black	0.349 (8.9)	55 (82)	600 (2700)	180 (810)
20	6	HD*D0060202RJ	Black	0.369 (9.4)	59 (88)	600 (2700)	180 (810)
1 Substitute (*) with	Fiber Grade Code						





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		Riser - UL Type	CL3R-OF - A	luminum Interl	ocking 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 lbf (N)	Max. Long Term Load lbf (N)
12	2	HD*D0020212FJ	Black	0.614 (15.6)	193 (287)	600 (2700)	180 (810)
12	4	HD*D0040212FJ	Black	0.634 (16.1)	201 (299)	600 (2700)	180 (810)
12	6	HD*D0060212FJ	Black	0.684 (17.4)	216 (321)	600 (2700)	180 (810)
14	2	HD*D0020214FJ	Black	0.614 (15.6)	173 (257)	600 (2700)	180 (810)
14	4	HD*D0040214FJ	Black	0.634 (16.1)	181 (269)	600 (2700)	180 (810)
14	6	HD*D0060214FJ	Black	0.654 (16.6)	187 (278)	600 (2700)	180 (810)

1 Substitute (\*) 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 lbf (N)	Max. Long Term Load lbf (N)
16	2	HD*D0020216FJ	Black	0.604 (15.3)	161 (240)	600 (2700)	180 (810)
16	4	HD*D0040216FJ	Black	0.624 (15.8)	168 (250)	600 (2700)	180 (810)
16	6	HD*D0060216FJ	Black	0.644 (16.4)	175 (260)	600 (2700)	180 (810)
18	2	HD*D0020218FJ	Black	0.594 (15.1)	153 (228)	600 (2700)	180 (810)
18	4	HD*D0040218FJ	Black	0.614 (15.6)	160 (238)	600 (2700)	180 (810)
18	6	HD*D0060218FJ	Black	0.624 (15.8)	165 (246)	600 (2700)	180 (810)
20	2	HD*D0020220FJ	Black	0.584 (14.8)	144 (214)	600 (2700)	180 (810)
20	4	HD*D0040220FJ	Black	0.604 (15.3)	151 (225)	600 (2700)	180 (810)
20	6	HD*D0060202FJ	Black	0.624 (15.8)	159 (237)	600 (2700)	180 (810)
1 Substitute (*) with	Fiber Grade Code						





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	Plenum - UL Type CL3P-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 lbf (N)	Max. Long Term Load lbf (N)							
12	2	HD*D0020212PJ	Black	0.389 (9.9)	90 (134)	600 (2700)	180 (810)							
12	4	HD*D0040212PJ	Black	0.380 (9.7)	88 (131)	600 (2700)	180 (810)							
12	6	HD*D0060212PJ	Black	0.396 (10.1)	90 (134)	600 (2700)	180 (810)							
14	2	HD*D0020214PJ	Black	0.358 (9.1)	68 (101)	600 (2700)	180 (810)							
14	4	HD*D0040214PJ	Black	0.35 (8.9)	66 (98)	600 (2700)	180 (810)							
14	6	HD*D0060214PJ	Black	0.361 (9.2)	68 (101)	600 (2700)	180 (810)							
1 Substitute (*) w	ith Fiber Grade Coo	le												

			Plenum - UL T	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 lbf (N)	Max. Long Term Load lbf (N)
16	2	HD*D0020216PJ	Black	0.345 (8.8)	58 (86)	600 (2700)	180 (810)
16	4	HD*D0040216PJ	Black	0.336 (8.5)	56 (83)	600 (2700)	180 (810)
16	6	HD*D0060216PJ	Black	0.349 (8.9)	58 (86)	600 (2700)	180 (810)
18	2	HD*D0020218PJ	Black	0.333 (8.5)	52 (77)	600 (2700)	180 (810)
18	4	HD*D0040218PJ	Black	0.324 (8.2)	50 (74)	600 (2700)	180 (810)
18	6	HD*D0060218PJ	Black	0.341 (8.7)	52 (77)	600 (2700)	180 (810)
20	2	HD*D0020220PJ	Black	0.325 (8.3)	45 (67)	600 (2700)	180 (810)
20	4	HD*D0040220PJ	Black	0.316 (8.0)	43 (64)	600 (2700)	180 (810)
20	6	HD*D0060220PJ	Black	0.332 (8.4)	45 (67)	600 (2700)	180 (810)
1 Substitute (*) with	Fiber Grade Code						





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		Plenum - UL Tyl	oe CL3P-OF - A	Aluminum Inter	locking Armo	r	
AWG Size	Fiber Count	Part Number <sup>1</sup>	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbf (N)	Max. Long Term Load lbf (N)
12	2	HD*D0020212AJ	Black	0.644 (16.4)	193 (287)	600 (2700)	180 (810)
12	4	HD*D0040212AJ	Black	0.634 (16.1)	190 (283)	600 (2700)	180 (810)
12	6	HD*D0060212AJ	Black	0.654 (16.6)	195 (290)	600 (2700)	180 (810)
14	2	HD*D0020214AJ	Black	0.614 (15.6)	166 (247)	600 (2700)	180 (810)
14	4	HD*D0040214AJ	Black	0.604 (15.3)	162 (241)	600 (2700)	180 (810)
14	6	HD*D0060214AJ	Black	0.614 (15.6)	166 (247)	600 (2700)	180 (810)
1 Substitute (*) w	ith Fiber Grade Co	de					

	Plenum - UL Type CMP-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 lbf (N)	Max. Long Term Load lbf (N)						
16	2	HD*D0020216AJ	Black	0.604 (15.3)	161 (240)	600 (2700)	180 (810)						
16	4	HD*D0040216AJ	Black	0.594 (15.1)	157 (234)	600 (2700)	180 (810)						
16	6	HD*D0060216AJ	Black	0.604 (15.3)	161 (240)	600 (2700)	180 (810)						
18	2	HD*D0020218AJ	Black	0.584 (14.8)	151 (225)	600 (2700)	180 (810)						
18	4	HD*D0040218AJ	Black	0.574 (14.6)	147 (219)	600 (2700)	180 (810)						
18	6	HD*D0060218AJ	Black	0.594 (15.1)	153 (228)	600 (2700)	180 (810)						
20	2	HD*D0020220AJ	Black	0.584 (14.8)	144 (214)	600 (2700)	180 (810)						
20	4	HD*D0040220AJ	Black	0.574 (14.6)	140 (208)	600 (2700)	180 (810)						
20	6	HD*D0060220AJ	Black	0.584 (14.8)	144 (214)	600 (2700)	180 (810)						
Substitute (*) with	Fiber Grade Code												

	STANDARD														
1	FX Fiber Cable	1	iber Type	1	Family	Fiber	Count	Conductor Count		Copp	per Type	1	Flammability	Su	bunit Type / Configuration
HD	Indoor/Outdoor Hybrid Cable	3	ОМЗ	D	Distribution	002	2 Fibers	02	2 Conductors	12	12 AWG	Р	Plenum (OFNP)	J	COPPER: Stranded or Category Cable FIBER: Up to 6 x 900um Fibers / Sub
		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 (OFCR)		
			•							18	18 AWG		Plenum Interlocked Aluminum Armor		