



Revision Number: 7 Revision Date: 1/7/2025

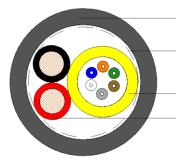


DuetConnect<sup>™</sup> Hybrid Copper-Fiber Cables allow endusers to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation 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	$-40^{\circ}$ 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°C to +70°C -40°F to +158°F										
Installation	$-10^{0}$ C to $+60^{0}$ C $14^{0}$ F to $+140^{0}$ F	$0^{0}$ C to +60 <sup>0</sup> C 32 <sup>0</sup> F to +140 <sup>0</sup> F										



OUTER JACKET ARAMID YARNS & WATERBLOCKING TAPE

#### -FIBER CABLE -CONDUCTOR

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/-
OM1 Fiber avai	ilable upon Requ	est						

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Revision Number: 7 Revision Date: 1/7/2025

	Riser - UL Type CL3R-OF													
AWG Size	Fiber Count	Conductor 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	2	HD*D0020212RJ	Black	0.364 (9.2)	95 (141)	300 (1330)	90 (400)						
12	4	2	HD*D0040212RJ	Black	0.382 (9.7)	99 (147)	300 (1330)	90 (400)						
12	6	2	HD*D0060212RJ	Black	0.433 (11.0)	105 (156)	300 (1330)	90 (400)						
14	2	2	HD*D0020214RJ	Black	0.364 (9.2)	75 (112)	300 (1330)	90 (400)						
14	4	2	HD*D0040214RJ	Black	0.382 (9.7)	79 (118)	300 (1330)	90 (400)						
14	6	2	HD*D0060214RJ	Black	0.402 (10.2)	82 (122)	300 (1330)	90 (400)						
1 Substitute (*) wi	th Fiber Grade Code													

	Riser - UL Type CMR-OF													
AWG Size	Fiber Count	Conductor 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	2	HD*D0020216RJ	Black	0.350 (8.9)	65 (97)	300 (1330)	90 (400)						
16	4	2	HD*D0040216RJ	Black	0.367 (9.3)	68 (101)	300 (1330)	90 (400)						
16	6	2	HD*D0060216RJ	Black	0.387 (9.8)	72 (107)	300 (1330)	90 (400)						
18	2	2	HD*D0020218RJ	Black	0.340 (8.6)	59 (88)	300 (1330)	90 (400)						
18	4	2	HD*D0040218RJ	Black	0.355 (9.0)	62 (92)	300 (1330)	90 (400)						
18	6	2	HD*D0060218RJ	Black	0.373 (9.5)	65 (97)	300 (1330)	90 (400)						
20	2	2	HD*D0020220RJ	Black	0.333 (8.5)	52 (77)	300 (1330)	90 (400)						
20	4	2	HD*D0040220RJ	Black	0.349 (8.9)	55 (82)	300 (1330)	90 (400)						
20	6	2	HD*D0060202RJ	Black	0.369 (9.4)	59 (88)	300 (1330)	90 (400)						

1 Substitute (\*) with Fiber Grade Code

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	Riser - UL Type CL3R-OF - Aluminum Interlocking Armor													
AWG Size	Fiber Count	Conductor 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	2	HD*D0020212FJ	Black	0.614 (15.6)	193 (287)	300 (1330)	90 (400)						
12	4	2	HD*D0040212FJ	Black	0.634 (16.1)	201 (299)	300 (1330)	90 (400)						
12	6	2	HD*D0060212FJ	Black	0.684 (17.4)	216 (321)	300 (1330)	90 (400)						
14	2	2	HD*D0020214FJ	Black	0.614 (15.6)	173 (257)	300 (1330)	90 (400)						
14	4	2	HD*D0040214FJ	Black	0.634 (16.1)	181 (269)	300 (1330)	90 (400)						
14	6	2	HD*D0060214FJ	Black	0.654 (16.6)	187 (278)	300 (1330)	90 (400)						
1 Substitute (*) wit	h Eiber Grade Code													

1 Substitute (\*) with Fiber Grade Code

		Riser -	UL Type CMR-C	)F - Aluminur	n Interlocking	Armor		
AWG Size	Fiber Count	Conductor 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	2	HD*D0020216FJ	Black	0.604 (15.3)	161 (240)	300 (1330)	90 (400)
16	4	2	HD*D0040216FJ	Black	0.624 (15.8)	168 (250)	300 (1330)	90 (400)
16	6	2	HD*D0060216FJ	Black	0.644 (16.4)	175 (260)	300 (1330)	90 (400)
18	2	2	HD*D0020218FJ	Black	0.594 (15.1)	153 (228)	300 (1330)	90 (400)
18	4	2	HD*D0040218FJ	Black	0.614 (15.6)	160 (238)	300 (1330)	90 (400)
18	6	2	HD*D0060218FJ	Black	0.624 (15.8)	165 (246)	300 (1330)	90 (400)
20	2	2	HD*D0020220FJ	Black	0.584 (14.8)	144 (214)	300 (1330)	90 (400)
20	4	2	HD*D0040220FJ	Black	0.604 (15.3)	151 (225)	300 (1330)	90 (400)
20	6	2	HD*D0060202FJ	Black	0.624 (15.8)	159 (237)	300 (1330)	90 (400)
1 Substitute (*) wit	h Fiber Grade Code							

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Revision Number: 7 Revision Date: 1/7/2025

	Plenum - UL Type CL3P-OF													
AWG Size	Fiber Count	Conductor 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	2	HD*D0020212PJ	Black	0.389 (9.9)	90 (134)	300 (1330)	90 (400)						
12	4	2	HD*D0040212PJ	Black	0.380 (9.7)	88 (131)	300 (1330)	90 (400)						
12	6	2	HD*D0060212PJ	Black	0.396 (10.1)	90 (134)	300 (1330)	90 (400)						
14	2	2	HD*D0020214PJ	Black	0.358 (9.1)	68 (101)	300 (1330)	90 (400)						
14	2	4	HD*D0020414PJ	Black	0.390 (9.3)	101 (150)	300 (1330)	90 (400)						
14	4	2	HD*D0040214PJ	Black	0.35 (8.9)	66 (98)	300 (1330)	90 (400)						
14	4	4	HD*D0040414PJ	Black	0.390 (9.3)	102 (152)	300 (1330)	90 (400)						
14	6	2	HD*D0060214PJ	Black	0.361 (9.2)	68 (101)	300 (1330)	90 (400)						
14	6	4	HD*D0060414PJ	Black	0.402 (9.6)	103 (153)	300 (1330)	90 (400)						

1 Substitute (\*) with Fiber Grade Code

	Plenum - UL Type CMP-OF													
AWG Size	Fiber Count	Conductor 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	2	HD*D0020216PJ	Black	0.345 (8.8)	58 (86)	300 (1330)	90 (400)						
16	2	4	HD*D0020416PJ	Black	0.373 (9.5)	81 (121)	300 (1330)	90 (400)						
16	4	2	HD*D0040216PJ	Black	0.336 (8.5)	56 (83)	300 (1330)	90 (400)						
16	4	4	HD*D0040416PJ	Black	0.373 (9.5)	82 (122)	300 (1330)	90 (400)						
16	6	2	HD*D0060216PJ	Black	0.349 (8.9)	58 (86)	300 (1330)	90 (400)						
16	6	4	HD*D0060416PJ	Black	0.380 (9.7)	83 (123)	300 (1330)	90 (400)						
18	2	2	HD*D0020218PJ	Black	0.333 (8.5)	52 (77)	300 (1330)	90 (400)						
18	2	4	HD*D0020418PJ	Black	0.346 (8.8)	69 (102)	300 (1330)	90 (400)						
18	4	2	HD*D0040218PJ	Black	0.324 (8.2)	50 (74)	300 (1330)	90 (400)						
18	4	4	HD*D0040418PJ	Black	0.346 (8.8)	70 (103)	300 (1330)	90 (400)						
18	6	2	HD*D0060218PJ	Black	0.341 (8.7)	52 (77)	300 (1330)	90 (400)						
18	6	4	HD*D0060418PJ	Black	0.360 (9.1)	71 (105)	300 (1330)	90 (400)						
20	2	2	HD*D0020220PJ	Black	0.325 (8.3)	45 (67)	300 (1330)	90 (400)						
20	2	4	HD*D0020420PJ	Black	0.338 (8.6)	42 (63)	300 (1330)	90 (400)						
20	4	2	HD*D0040220PJ	Black	0.316 (8.0)	43 (64)	300 (1330)	90 (400)						
20	4	4	HD*D0040420PJ	Black	0.338 (8.6)	57 (85)	300 (1330)	90 (400)						
20	6	2	HD*D0060220PJ	Black	0.332 (8.4)	45 (67)	300 (1330)	90 (400)						
20	6	4	HD*D0060420PJ	Black	0.352 (8.9)	58 (87)	300 (1330)	90 (400)						
1 Substitute (*) wi	th Fiber Gra	de Code												

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Revision Number: 7 Revision Date: 1/7/2025

	Plenum - UL Type CL3P-OF - Aluminum Interlocking Armor													
AWG Size	Fiber Count	Conductor 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	2	HD*D0020212AJ	Black	0.644 (16.4)	193 (287)	300 (1330)	90 (400)						
12	4	2	HD*D0040212AJ	Black	0.634 (16.1)	190 (283)	300 (1330)	90 (400)						
12	6	2	HD*D0060212AJ	Black	0.654 (16.6)	195 (290)	300 (1330)	90 (400)						
14	2	2	HD*D0020214AJ	Black	0.614 (15.6)	166 (247)	300 (1330)	90 (400)						
14	4	2	HD*D0040214AJ	Black	0.604 (15.3)	162 (241)	300 (1330)	90 (400)						
14	6	2	HD*D0060214AJ	Black	0.614 (15.6)	166 (247)	300 (1330)	90 (400)						
1 Substitute (*) wit	h Fiber Grade Code													

1 Substitute (\*) with Fiber Grade Code

			Plenum - UL Typ	e CMP-OF - A	Aluminum Inte	rlocking Arn	nor	
AWG Size	Fiber Count	Conductor 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	2	HD*D0020216AJ	Black	0.604 (15.3)	161 (240)	300 (1330)	90 (400)
16	4	2	HD*D0040216AJ	Black	0.594 (15.1)	157 (234)	300 (1330)	90 (400)
16	6	2	HD*D0060216AJ	Black	0.604 (15.3)	161 (240)	300 (1330)	90 (400)
18	2	2	HD*D0020218AJ	Black	0.584 (14.8)	151 (225)	300 (1330)	90 (400)
18	4	2	HD*D0040218AJ	Black	0.574 (14.6)	147 (219)	300 (1330)	90 (400)
18	6	2	HD*D0060218AJ	Black	0.594 (15.1)	153 (228)	300 (1330)	90 (400)
20	2	2	HD*D0020220AJ	Black	0.584 (14.8)	144 (214)	300 (1330)	90 (400)
20	4	2	HD*D0040220AJ	Black	0.574 (14.6)	140 (208)	300 (1330)	90 (400)
20	6	2	HD*D0060220AJ	Black	0.584 (14.8)	144 (214)	300 (1330)	90 (400)
1 Substitute (*) wit	h Fiber Grade Code							

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								STANI	DARD	-					
F	TX Fiber Cable Fiber Type		Fiber Type	Family Fibe		Fiber	Fiber Count		Conductor Count		er Type	Flammability		Subunit Type / Configuration	
HD	Indoor/Outdoor Hybrid Cable	3	ОМЗ	D	Distribution	002	2 Fibers	02	2 Conductors	12	12 AWG	Ρ	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 20 AWG	A	Plenum Interlocked Aluminum Armor		

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