

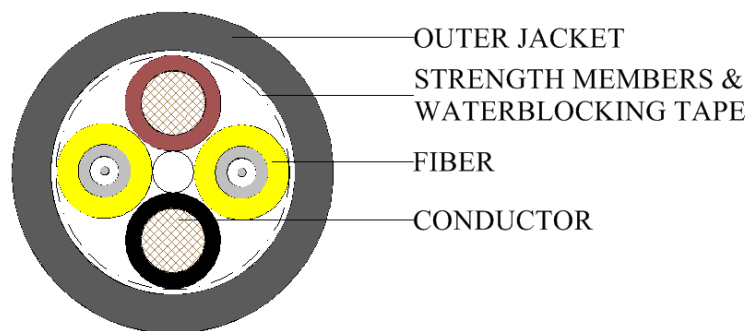


DuetConnect™ Hybrid Copper-Fiber Cables allow end-users to take advantage of DC power and fiber in one cable to safely deliver low-voltage power and data over long distances to remote locations where standard power is unavailable or too costly to install. Hybrid cable technology offers installation and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

Riser - UL Type CL3R-OF – 3mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212RC	Black	0.351 (8.9)	84 (125)	300 (1330)	90 (400)
14	2	2	HD*B0020214RC	Black	0.351 (8.9)	59 (88)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CMR-OF – 3mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216RC	Black	0.324 (8.2)	51 (76)	300 (1330)	90 (400)
18	2	2	HD*B0020218RC	Black	0.324 (8.2)	46 (68)	300 (1330)	90 (400)
20	2	2	HD*B0020220RC	Black	0.342 (8.7)	41 (61)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CL3R-OF – 3mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212FC	Black	0.604 (15.3)	180 (268)	300 (1330)	90 (400)
14	2	2	HD*B0020214FC	Black	0.604 (15.3)	155 (231)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CMR-OF – 3mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216FC	Black	0.574 (14.6)	141 (210)	300 (1330)	90 (400)
18	2	2	HD*B0020218FC	Black	0.574 (14.6)	136 (202)	300 (1330)	90 (400)
20	2	2	HD*B0020220FC	Black	0.594 (15.1)	135 (201)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CL3R-OF – 2mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212RB	Black	0.324 (8.2)	72 (107)	300 (1330)	90 (400)
14	2	2	HD*B0020214RB	Black	0.291 (7.4)	53 (79)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CMR-OF – 2mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216RB	Black	0.276 (7)	42 (63)	300 (1330)	90 (400)
18	2	2	HD*B0020218RB	Black	0.270 (6.8)	34 (51)	300 (1330)	90 (400)
20	2	2	HD*B0020220RB	Black	0.244 (6.2)	29 (43)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CL3R-OF – 2mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212FB	Black	0.584 (14.8)	164 (244)	300 (1330)	90 (400)
14	2	2	HD*B0020214FB	Black	0.534 (13.6)	133 (198)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Riser - UL Type CMR-OF – 2mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216FB	Black	0.534 (13.6)	125 (186)	300 (1330)	90 (400)
18	2	2	HD*B0020218FB	Black	0.514 (13.1)	113 (168)	300 (1330)	90 (400)
20	2	2	HD*B0020220FB	Black	0.494 (12.5)	105 (156)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Plenum - UL Type CL3P-OF – 3mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212PC	Black	0.351 (8.9)	87 (129)	300 (1330)	90 (400)
14	2	2	HD*B0020214PC	Black	0.351 (8.9)	67 (100)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Plenum - UL Type CMP-OF – 3mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216PC	Black	0.324 (8.2)	55 (82)	300 (1330)	90 (400)
18	2	2	HD*B0020218PC	Black	0.324 (8.2)	51 (76)	300 (1330)	90 (400)
20	2	2	HD*B0020220PC	Black	0.342 (8.7)	45 (67)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Plenum - UL Type CL3P-OF – 3mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212AC	Black	0.604 (15.3)	190 (283)	300 (1330)	90 (400)
14	2	2	HD*B0020214AC	Black	0.604 (15.3)	170 (253)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Plenum - UL Type CMP-OF – 3mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216AC	Black	0.524 (13.3)	131 (195)	300 (1330)	90 (400)
18	2	2	HD*B0020218AC	Black	0.524 (13.3)	126 (188)	300 (1330)	90 (400)
20	2	2	HD*B0020220AC	Black	0.544 (13.8)	125 (186)	300 (1330)	90 (400)
1 Substitute (*) with Fiber Grade Code								

Plenum - UL Type CL3P-OF – 2mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212PB	Black	0.277 (7.0)	63 (94)	300 (1330)	90 (400)
14	2	2	HD*B0020214PB	Black	0.291 (7.4)	56 (83)	300 (1330)	90 (400)
14	2	4	HD*B0020414PB	Black	0.388 (9.9)	95 (142)	300 (1330)	90 (400)

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CMP-OF – 2mm Sub Units

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216PB	Black	0.276 (7)	45 (67)	300 (1330)	90 (400)
16	2	4	HD*B0020416PB	Black	0.392 (9.3)	72 (112)	300 (1330)	90 (400)
18	2	2	HD*B0020218PB	Black	0.270 (6.9)	40 (60)	300 (1330)	90 (400)
18	2	4	HD*B0020418PB	Black	0.305 (7.1)	58 (86)	300 (1330)	90 (400)
20	2	2	HD*B0020220PB	Black	0.244 (6.2)	31 (47)	300 (1330)	90 (400)
20	2	4	HD*B0020420PB	Black	0.292 (6.8)	45 (67)	300 (1330)	90 (400)

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CL3P-OF – 2mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020212AB	Black	0.534 (13.6)	152 (226)	300 (1330)	90 (400)
14	2	2	HD*B0020214AB	Black	0.484 (12.3)	123 (183)	300 (1330)	90 (400)

¹ Substitute (*) with Fiber Grade Code

Plenum - UL Type CMP-OF – 2mm Sub Units - Aluminum Interlocked Armor

AWG Size	Fiber Count	Conductor 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	2	HD*B0020216AB	Black	0.484 (12.3)	113 (168)	300 (1330)	90 (400)
18	2	2	HD*B0020218AB	Black	0.464 (11.8)	103 (153)	300 (1330)	90 (400)
20	2	2	HD*B0020220AB	Black	0.444 (11.3)	92 (137)	300 (1330)	90 (400)

¹ Substitute (*) with Fiber Grade Code



STANDARD																			
FX Fiber Cable		Fiber Type		Family		Fiber Count		Conductor Count		Copper Type		Flammability & Protection		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	R	Riser	B	COPPER: Stranded or Category Cable FIBER: 2.0mm Sub, 1 x 900um Fiber / Sub				
		4	OM4			002	2 Fibers	02	2 Conductors	14	14 AWG	F	Riser Interlocked Aluminum Armor	C	COPPER: Stranded or Category Cable FIBER: 3.0mm Sub, 1 x 900um Fiber / Sub				
		S	OS2 (G.657.A1)					03	3 Conductors	16	16 AWG	P	Plenum						
								04	4 Conductors	18	18 AWG	A	Plenum Interlocked Aluminum Armor						
												20	20 AWG						