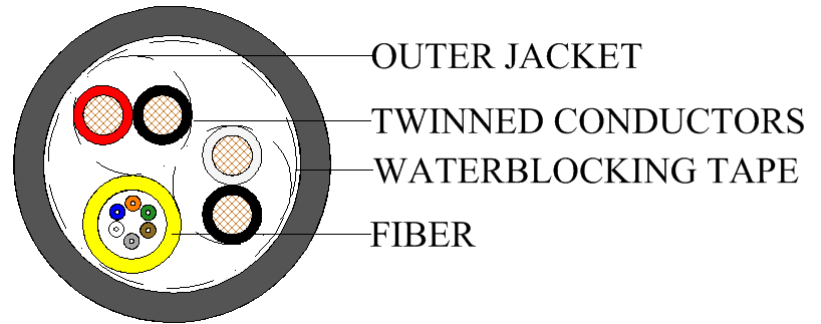




Belden Digital Electricity Cables are available in copper or copper/fiber hybrid constructions, and both are designed to efficiently and safely carry large amounts of power across long distances. Each feature twisted pairs for improved electrical performance, easy identification and quick installation. Copper cables feature anti-corrosion properties and improved longevity. Hybrid cables reduce stock (only one cable to manage) and labor costs with only one cable to pull for data and power.

Standards:

- ICEA S-120-742
- RoHS
- ANSI/TIA-568-C.3



Temperature Range	
Plenum	
Operating	-40°C to +70°C -40°F to +158°F
Storage	-40°C to +70°C -40°F to +158°F
Installation	0°C to +60°C 32°F to +140°F

Glass Type	Fiber Grade Code	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)
OS2 - Single Mode	S	Yellow	1310/1550	0.5/0.5	-	-	5000/-	10,000/40,000
OM3 - 50/125 Multi-Mode	3	Aqua	850/1300	3.0/1.0	1500/500	2000/-	1000/550	300/-
OM4 - 50/125 Multi-Mode	4	Erika Violet	850/1300	3.0/1.0	3500/500	4700/-	1100/550	550/-

OM1 and OM2 fiber available upon request

Breakout Style Plenum - UL Type CMP-OF

AWG Size	Pair Count	Fiber Count	Part Number Substitute (*) with fiber grade code	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Maximum Mutual Capacitance (pF/ft)
16	2	2	DHIP162U*B02C	0.419 (10.6)	78 (116)	600 (2670)	180 (800)	30
16	4	2	DHIP164U*B02C	0.589 (15)	146 (217)	600 (2670)	180 (800)	30
16	8	2	DHIP168U*B02C	0.739 (18.8)	248 (369)	600 (2670)	180 (800)	30
18	2	2	DHIP182U*B02C	0.376 (9.6)	63 (94)	600 (2670)	180 (800)	30
18	4	2	DHIP184U*B02C	0.519 (13.2)	121 (180)	600 (2670)	180 (800)	30
18	8	2	DHIP188U*B02C	0.664 (16.9)	197 (293)	600 (2670)	180 (800)	30

Breakout Style Plenum - UL Type CMP-OF

AWG Size	Pair Count	Fiber Count	Part Number Substitute (*) with fiber grade code	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Maximum Mutual Capacitance (pF/ft)
16	2	2	DHIP162U*B02C	0.419 (10.6)	78 (116)	600 (2670)	180 (800)	30
16	4	2	DHIP164U*B02C	0.589 (15)	146 (217)	600 (2670)	180 (800)	30
16	8	2	DHIP168U*B02C	0.739 (18.8)	248 (369)	600 (2670)	180 (800)	30
18	2	2	DHIP182U*B02C	0.376 (9.6)	63 (94)	600 (2670)	180 (800)	30
18	4	2	DHIP184U*B02C	0.519 (13.2)	121 (180)	600 (2670)	180 (800)	30
18	8	2	DHIP188U*B02C	0.664 (16.9)	197 (293)	600 (2670)	180 (800)	30

Distribution Style Plenum - UL Type CMP-OF

AWG Size	Pair Count	Fiber Count	Part Number Substitute (*) with fiber grade code	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Maximum Mutual Capacitance (pF/ft)
16	2	2	DHIP162U*D02J	0.402 (10.2)	83 (124)	600 (2670)	180 (800)	30
16	2	6	DHIP162U*D06J	0.406 (10.3)	81 (121)	600 (2670)	180 (800)	30
16	2	12	DHIP162U*D12J	0.559 (14.2)	114 (170)	600 (2670)	180 (800)	30
16	4	2	DHIP164U*D02J	0.590 (15.0)	154 (229)	600 (2670)	180 (800)	30
16	4	6	DHIP164U*D06J	0.603 (15.3)	156 (232)	600 (2670)	180 (800)	30
16	4	12	DHIP164U*D12J	0.630 (16.0)	165 (246)	600 (2670)	180 (800)	30
16	8	2	DHIP168U*D02J	0.715 (18.2)	254 (378)	600 (2670)	180 (800)	30
16	8	6	DHIP168U*D06J	0.759 (19.3)	258 (384)	600 (2670)	180 (800)	30
16	8	12	DHIP168U*D12J	0.759 (19.3)	264 (393)	600 (2670)	180 (800)	30
18	2	2	DHIP182U*D02J	0.389 (9.9)	70 (104)	600 (2670)	180 (800)	30
18	2	6	DHIP182U*D06J	0.393 (10.0)	70 (104)	600 (2670)	180 (800)	30
18	2	12	DHIP182U*D12J	0.514 (13.1)	97 (144)	600 (2670)	180 (800)	30
18	4	2	DHIP184U*D02J	0.526 (13.4)	130 (193)	600 (2670)	180 (800)	30
18	4	6	DHIP184U*D06J	0.552 (14.0)	124 (185)	600 (2670)	180 (800)	30
18	4	12	DHIP184U*D12J	0.569 (14.5)	131 (195)	600 (2670)	180 (800)	30
18	8	2	DHIP188U*D02J	0.664 (16.9)	205 (305)	600 (2670)	180 (800)	30
18	8	6	DHIP188U*D06J	0.664 (16.9)	206 (307)	600 (2670)	180 (800)	30
18	8	12	DHIP188U*D12J	0.664 (16.9)	212 (315)	600 (2670)	180 (800)	30

Digital Electricity™ Hybrid Copper-Fiber Cables (Data & Power Transmission)

Building a SmartPart Number

Fixed Letter Series: **DH** 1. Choose Cable Location: **I** 2. Choose Rating/Type: **P** 3. Choose Copper Type: **16** 4. Choose Pair Count: **2** 5. Choose Cable Shielding: **U** 6. Choose Fiber Type: **3** 7. Choose Family: **B** 8. Choose Fiber Count: **02** 9. Choose Fiber Sub-Unit Configuration: **C**

FX Fiber Cable	Location	Rating/Type	Copper Type	Pair Count	Shielding	Fiber Type	Family	Fiber Count	Sub-Unit Type/Configuration
DH Hybrid DE	I Indoor W Waterblocked-Indoor/Outdoor	P Plenum CMP-OF	16 16 AWG 18 18 AWG 20 20 AWG	2 2 Pairs 4 4 Pairs 8 8 Pairs	U Unshielded	3 OM3 4 OM4 S OS2 (G.657.A1)	B Breakout D Distribution	02 2 Fibers 04 4 Fibers 06 6 Fibers 12 12 Fibers	Breakout C 3.0 mm Sub (1F x 900 µm) B 2.0mm Sub (1F x 900 µm) Distribution: Unitized J 1 Fiber Distribution Tube (900 µm)

* Plenum default jacket color is Apple Green. Indoor/Outdoor and Waterblocked default jacket color is black. Length specified at the time of order.

Examples:

DHIP162U4B02C - Digital Electricity optimized hybrid, Indoor, 16 AWG, 2 Stranded Tinned-Copper Pairs, OM4, Breakout, 2 Fiber Strands, 3.0 mm Subunit, Unshielded, Plenum Rated, Apple Green Jacket

DHIP182USD06J - Digital Electricity optimized hybrid, Indoor, 18 AWG, 2 Stranded Tinned-Copper Pairs, OS2, Distribution, 6 Fiber Strands, 1 fiber distribution tube, Unshielded, Plenum Rated, Apple Green Jacket