

BULLETIN

The overall jacket has been eliminated from these UL-verified Category 5e cables to make them easy to handle, easy to identify, easy to pull and easy to terminate.



Belden® HomeChoice™ Banana Peel™ Composite Cable: A Revolutionary Design for Easy Installation

Cable installation for home automation, networking, security and entertainment systems has just been made easier — and therefore more cost efficient — with Belden's revolutionary new addition to the HomeChoice line of high-performance structured cabling solutions.

The new addition, Belden HomeChoice Banana Peel Composite cables, features a patent-pending design that affixes the individual cables to a center spline, eliminating the need for an overall jacket. So there's no overall jacket to strip off plus the individual data, coax and fiber cable components are all instantly identifiable and ready for termination. Just peel the individual cables off the center spline and you're in business.

And, the elimination of the outer jacket means that Banana Peel cables have a smaller OD than traditional composite cables, improving the cable's overall bend radius for faster, easier installation.

Verified Category 5e Performance

The new line of HomeChoice Banana Peel Composite cable is UL-verified to meet Cat 5e performance standards and is available in two configurations: 2 x 2 (two data cables, two coaxes) and 2 x 2 x 2 (two data cables, two coaxes and two fibers). All are rated CMR/C(UL) CMG FT4, and all come standard on 500 ft. and 1000 ft. reels. Belden Banana Peel cables include:

> Belden 7876S — two Cat 5e 4-pair bonded UTP data cables, plus two Series 6 Duobond Plus® coaxial cables

> Belden 7878S — two Cat 5e 4-pair bonded UTP data cables, plus two Series 6 Duobond Plus coaxes and one 2-fiber LANLite® distribution cable

> Belden 7913S — two Cat 5e 4-pair UTP data cables, plus two Series 6 Duobond® IV Quad Shield coaxes

> Belden 7914S — two Cat 5e 4-pair UTP cables, plus two Series 6 Duobond IV Quad Shield coaxes and one 2-fiber LANLite distribution cable.

Built-in Quality

Belden manufactures all of the individual cables that make up the composite. This is important to note because Belden's quality process revolves around the concept of quality assurance, or total customer satisfaction. To achieve this goal, each cable is submitted to a comprehensive series of quality methodologies — starting with an extensive product development process known as Design for Manufacturability (DFM). DFM ensures that the cable will yield superior product quality by targeting all critical cable attributes (electrical and physical) to meet or exceed a Cpk of 1.33 — or a 99.997% compliance rate — prior to production release.

Belden builds this level of quality into each and every cable it produces, so you are assured of the performance you expected, the performance you paid for.



Part Number	Component Cables	Descriptions and Standards	Jacket Color and Type	Nominal OD (In.)	Standard Lengths (Ft.)
7876S UL verified to Cat 5e UL CMR, C(UL) CMG FT4	Two Cat 5e 4-pair bonded UTP cables	UTP verified (UL) to Cat 5e 24 AWG solid bare copper, polyolefin insulated	Blue & Green FR PVC	.200"	1000 500
	Two Series 6 Duobond Plus® coaxial cables	Series 6 (solid bare copper conductor), Duobond Plus (Bonded Tri-shield) + 80% braid, swept to 2.25 GHz	Black & White FR PVC ▲	.275" .550"	
7878S UL verified to Cat 5e UL CMR OF, C(UL) CMG OF FT4	Two Cat 5e 4-pair bonded UTP cables	UTP verified (UL) to Cat 5e 24 AWG solid bare copper, polyolefin insulated	Blue & Green FR PVC	.200"	1000 500
	Two Series 6 Duobond Plus coaxial cables	Series 6 (solid bare copper conductor), Duobond Plus (Bonded Tri-shield) + 80% braid, swept to 2.25 GHz	Black & White FR PVC	.275"	
	One 2-fiber LANLite® Distribution cable	Gigabit Ethernet-grade fiber 62.5/125/900/ micron tight buffered fiber	Orange FR PVC ▲	.175" .595"	
7913S UL verified to Cat 5e UL CMR, C(UL) CMG FT4	Two Cat 5e 4-pair UTP cables	UTP verified (UL) to Cat 5e 24 AWG solid bare copper, polyolefin insulated	Blue & Green FR PVC	.200"	1000 500
	Two Series 6 Duobond® IV Quad Shield coaxial cables	Series 6 (solid bare copper conductor) Duobond IV Quad Shield, swept to 2.25 GHz	Black & White FR PVC ▲	.298" .600"	
7914S UL verified to Cat 5e UL CMR OF, C(UL) CMG OF FT4	Two Cat 5e 4-pair UTP cables	UTP verified (UL) to Cat 5e 24 AWG solid bare copper, polyolefin insulated	Blue & Green FR PVC	.200"	1000 500
	Two Series 6 Duobond IV Quad Shield coaxial cables	Series 6 (solid bare copper conductor) Duobond IV Quad Shield, swept to 2.25 GHz	Black & White FR PVC	.298"	
	One 2-fiber LANLite Distribution cable	Gigabit Ethernet-grade fiber 62.5/125/900/ micron tight buffered fiber	Orange FR PVC ▲	.175" .620"	

FR = Flame retardant The white coax cable jacket is sequentially marked. ▲ Composite cables with no overall jacket.

Part Number UL NEC/ C(UL) CEC Type	No. of Pairs	Insulation Thickness		Nominal OD		Max. DCR (Ohms/ 100m)	Max. DCR Unbal%	Max. Cap Unbal% (pF/100m)	Freq. (MHz)	Min. Psum ACR (dB/100m)	Min. Psum ELFEXT (dB/100m)	Max. Atten. (dB/100m)	Min. Psum NEXT (dB)	Input Impedance (Ohms)	Min. RL (dB)	
		Inch	mm	Inch	mm											
1700A DataTwist® 350, Exceeds Cat 5e, Bonded-Pairs UL CM, C(UL) CM	4	.009	.229	.200	5.08	9.0	3	66	1	63.3	60.8	2.0	65.3	100±12%	20.0	
										10	43.9	40.8	6.4	50.3	100±12%	25.0
										16	39.1	36.7	8.1	47.3	100±12%	25.0
										31.25	33.3	30.9	11.6	42.9	100±15%	23.6
										62.5	21.6	24.8	16.8	38.4	100±15%	21.5
										100	17.1	20.8	21.7	35.3	100±15%	20.1
										200	3.0	15.0	32.0	30.8	100±18%	19.0
										225	>0.0	—	34.3	30.0	100±20%	18.0
250	—	—	36.4	29.3	100±20%	18.0										
350	—	—	44.3	27.2	100±22%	17.0										
1583A DataTwist 5e, Cat 5e, Unbonded Pairs UL CM, C(UL) CM	4	.009	.229	.214	5.44	9.38	3	330	1	60	60.8	2.0	62.3	100±12%	20.0	
										10	41	40.8	6.5	47.3	100±12%	25.0
										16	36	36.7	8.2	44.3	100±12%	25.0
										31.25	28	30.9	11.7	39.9	100±15%	23.6
										62.5	19	24.8	17.0	35.4	100±15%	21.5
										100	11	20.8	22.0	32.3	100±15%	20.1
200	1	15.0	32.4	27.8	100±25%	15.0										

Part Number UL NEC/ C(UL) CEC Type	No. of Fibers	Outer Diameter		Weight		Installation Tensile		Long Term Tensile		Maximum Attenuation		Minimum Bandwidth	
		Inch	mm	Lbs./ 1000 Ft.	Kg/Km	Lbs.	N	Lbs.	N	@850nm	@1300nm	@850nm	@1300nm
PTD6002 UL OFNR, C(UL) OFNR	2	.175	4.4	12	16.4	180	800	45	200	3.5 dB/km	1.0 dB/km	220 MHz-km	600 MHz-km
62.5/125/900 Micron (Core/Clad/Coating) Riser													

Part Number UL NEC/ C(UL) CEC Type	AWG (stranding) [Dia. in Inches] Nom. DCR	Insulation & Nominal Core OD		Nominal OD		No. of Shields & Material Nom. DCR	Nom. Imped. (Ohms)	Nom. Vel. of Prop.	Nom. Capacitance		MHz	Nom. Attenuation	
		Inch	mm	Inch	mm				pF/Ft	pF/m			
7915A Series 6, Duobond Plus with shorting fold UL CATV, CM; C(UL) CM	18 (solid) .040" Bare Copper 6.4Ω/M' 21.0Ω/km	Gas Injected FPE		.275	6.99	Duobond Plus +80% Aluminum Braid 4.6Ω/M' 15.1Ω/km	75	83%	16.2	53.1	5	.5	
		.180										4.57	55
Black or White PVC Jacket Sweep tested 5 MHz to 1 GHz, 20 dB Min. 1 GHz to 2.25 GHz, 15 dB Min.												211	2.6
												500	4.1
												750	5.1
												862	5.5
												1000	6.0
												1450	7.9
												1800	8.4
												2250	10.1
7916A Series 6, Duobond IV Quad Shield UL CATV, CM; C(UL) CM	18 (solid) .040" Bare Copper 6.4Ω/M' 21.0Ω/km	Gas Injected FPE		.298	7.57	Duobond IV Quad Shield 4.8Ω/M' 15.7Ω/km							

Relative Shielding Effectiveness Comparison

Typical dB Isolation*	Duobond Plus 80% Braid	Quad Shield (60%/40% Braids)
5 to 50 MHz	105	105
50 to 1000 MHz	125	115

For More Information:

www.belden.com

Belden Vertrieb Deutschland - audio Netowrk - Am Brögel 19 - D-42285 Wuppertal +49 202 242550

*Determined from Screening Attenuation Measurement when tested in accordance with IEC 61196-1.