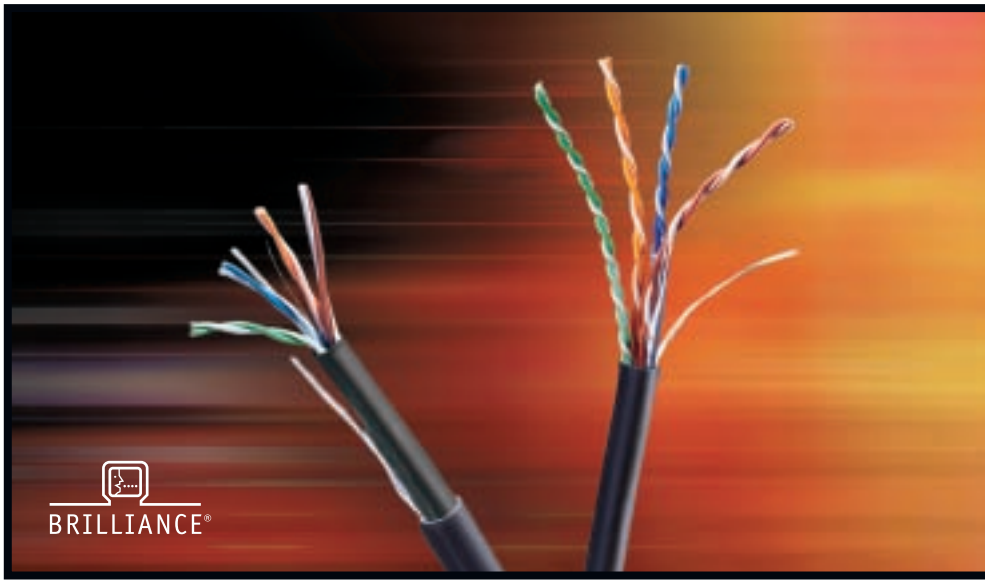
BELDEN
SENDING ALL THE RIGHT SIGNALS

New Product Bulletin

NP 228

CatSnake® Cables

CatSnake UTP cables offer exceptional audio/video performance, plus they are extremely rugged and flexible for use out of doors, in broadcast truck applications, in studios and for portable, professional audio/video use.



Brilliance® CatSnake Tactical Heavy Duty Category 5e Audio/Video Cables are Field-deployable and Offer Portable Performance

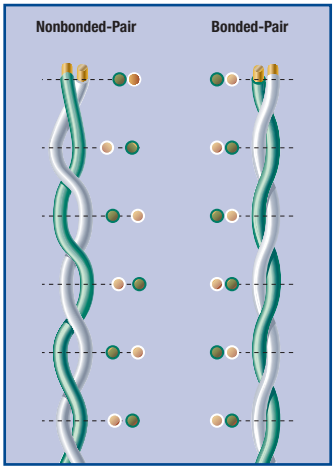
Belden® now offers Brilliance CatSnake Category 5e cables for use in patching Ethernet or digital audio/video formats utilizing Cat 5e-type cable. Because these Category 5e UTP cables are extremely rugged and utilize Belden's patented Bonded-Pair design, they are able to be used in high traffic areas in a broadcast studio or in any type of tactical, field deployable audio/video installation.

Bonded-Pair Design Means Installable Performance®

The consistency of a UTP cable can determine its transmission distance. Physical characteristics, such as the cable's conductor-to-conductor spacing relationship along the full length of the cable, can affect how far a signal can be carried at a given frequency without excessive attenuation due to Return Loss.

CatSnake Bonded-Pair Cat 5e Audio cables maintain their impedance and Return Loss performance when flexed and handled in rugged, harsh environments. Bonded-Pairs are the result of Belden's patented design that bonds the individual insulated conductors together along the full length of the cable. The cable therefore exhibits a uniform conductor-to-conductor spacing relationship along its longitudinal axis that assures consistent impedance characteristics. Nonbonded-pair cables tend to gap during their flexing, coiling and handling — or during normal use. These gaps typically create an impedance mismatch.

Belden calls this superior after-installation and in-use performance, Installable Performance; Portable Performance is the term used for portable applications.



Belden Bonded-Pair cables have a uniform conductor-to-conductor spacing; nonbonded-pair cables are inconsistent.

BELDEN
SENDING ALL THE RIGHT SIGNALS

Rugged, Portable Performance

To further ensure the ruggedness, portability, survivability and re-useability of these cables, Belden has either a heavy jacket wall version for medium duty applications or an upjacketed version for the harshest heavy-duty environments (Product Nos. 1304A and 1305A, respectively). To make them flexible, these cables have stranded (7x32) conductors and matte-finished Belflex® jackets. These cables also pass the UL 1581 -40°C Cold Bend test and are RJ-45 and Neutrik EtherCon® compatible.

Construction Details

CatSnake® Product Nos. 1304A and 1305A feature Bonded-Pair unshielded twisted pairs (UTPs) with 24 AWG stranded bare copper conductors and polyolefin insulation. The matte-finished jackets are constructed of Belflex with rip cords for easy jacket removal.

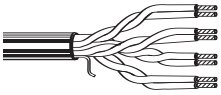
Tactical Field-Deployable Cat 5e Audio/Video Cables

Indoor/Outdoor Applications

Cat 5e • 24 AWG Bonded-Pairs Stranded (7x32) BC Conductors • Rip Cord • See Color Code Chart (below)

Heavy-Duty Jacketed • Polyolefin Insulation • .030" Flexible Matte Black PVC Jacket • Category 5e

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
	1304A	—	4	1000	304.8	27.8	12.6	.245	6.22	1	2.4	62.3	63.3	60.8	100±15	20.0
				500	152.4	14.4	6.5			4	4.9	53.3	52.3	48.7	100±15	23.0
										8	6.9	48.8	46.1	42.7	100±15	24.5
										10	7.8	47.3	43.9	40.8	100±15	25.0
										16	9.9	44.3	39.1	36.7	100±15	25.0
										25	12.5	41.3	34.1	32.8	100±15	24.3
										31.25	14.1	39.9	31.3	30.9	100±15	23.6
										62.5	20.4	35.4	21.6	24.8	100±15	21.5
										100	26.4	32.3	17.1	20.8	100±15	20.1

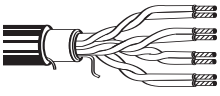


Neutrik EtherCon® compatible
RJ-45 Compatible • -40°C Cold Bend
U.S. Patents 5,606,151; 5,734,126 and 5,763,823
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e

Cat 5e • 24 AWG Bonded-Pairs Stranded (7x32) BC Conductors • Rip Cord • See Color Code Chart (below)

Upjacketed • Polyolefin Insulation • PVC Inner Jacket • .035" Matte Black Flexible PVC Outer Jacket • Category 5e

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
	1305A	—	4	1000	304.8	39.5	18.1	.295	7.49	1	2.4	62.3	63.3	60.8	100±15	20.0
				500	152.4	19.8	9.0			4	4.9	53.3	52.3	48.7	100±15	23.0
										8	6.9	48.8	46.1	42.7	100±15	24.5
								Nominal Core OD:		10	7.8	47.3	43.9	40.8	100±15	25.0
								.242	6.14	16	9.9	44.3	39.1	36.7	100±15	25.0
										25	12.5	41.3	34.1	32.8	100±15	24.3
										31.25	14.1	39.9	31.3	30.9	100±15	23.6
										62.5	20.4	35.4	21.6	24.8	100±15	21.5
										100	26.4	32.3	17.1	20.8	100±15	20.1



Neutrik EtherCon® compatible
RJ-45 Compatible • -40°C Cold Bend
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss

Color Codes

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

EtherCon is a registered trademark of Neutrik AG