BELDEN
SENDING ALL THE RIGHT SIGNALS

PB00068

High Performance Shielded CatSnake™ CAT 6A Cable

Belden launches a range of high performance Shielded CatSnake™ CAT 6A cables for use in studios and in tactical field deployable audio/data installations

Belden® CatSnake™ CAT 6A tested cables deliver superior performance thanks to the 100% coverage of the pairs individually shielded with Beldfoil® aluminium/ polyester foil and an overall braided shield.

- **Maximum uptime and reliability for critical live events**
- **Able to withstand repeated pulling, flexing, bending, coiling and crushing during stage and live sound applications**
- **Designed to meet the requirements of the latest digital audio formats**

The Belden range of high performance CatSnake™ CAT 6A cables offers the highest standard CAT 6A shielded cable in a flexible and rugged design for use in the harshest environments.

Applications

Broadcast crews on the move routinely subject their cables to repeated pulling, flexing, bending and crushing. Under these circumstances a conventional cable might develop discontinuities that could lead to degraded signal transmission – or the cable could even break. The exceptional physical and electrical characteristics really make Belden CatSnake™ cables ideal for outdoor use, in broadcast truck applications, and for portable, professional broadcast use.

Your Benefits

Designed as the ultimate field deployable product, these exceptionally robust cables can be used in the harshest environments, yet deliver reliable performance for maximum uptime. To make the whole cable extra robust, durable and sustainable, you can choose optionally to have an additional overall jacket in PVC or PUR. Moreover the compact round cable design eases transportation and deployment. These cables meet the requirements of the latest digital audio formats that run on Ethernet cables. These applications include CobraNet™, EtherSound™, RockNet™, DMX over Ethernet and Roland's DigitalSnake™.

Exceptional Flexibility and Flex Life

The cables have been tested for repeated bending according the EN 50289-3-9-5, and exceed the required 100 bends (radius 40 mm, weight 8 kg) while maintaining electrical performance. For simulating the coiling and uncoiling on a reel, the CatSnake™ CAT 6A has been subjected to a Track Chain test. Even after 2 million bendings (radius 100 mm, length 5 m, speed 3.5 m/s) the cable performed according the electrical performance stated in the data sheet.

Connectors and Cable Drums

Belden's shielded CatSnake™ features Beldfoil® shielded twisted pairs with 24 AWG stranded bare copper conductors and polyolefin insulation and is RJ-45 compatible. Belden CAPFMFL-S1 Field Installable connectors are recommended to be used. A Neutrik EtherCon™ connector is also available to lock the cable to the patch bay. This connector includes the RJ45 plug as well as a robust die cast shell as a carrier. The new connector is downwards compatible with the existing CAT 5e EtherCon™ chassis connector.

A new product to serve your needs.
Be certain.

Ordering Information

Part No.	UL NEC/C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		Mean Characteristic Impedance at 100 MHz (Ω)	Freq (MHz)	Max Atten. (dB/100 m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ACR-F (dB/100m)	Min. RL (dB)
			Ft.	m	Lbs.	kg	Inch	mm							
CAT 6A • 24 AWG Stranded BC Conductors • Twisted Pair • Individual Beldfoil® + Overall Tinned Copper Braid • Rip Cord															
Foam Skin Polyolefin Insulation • PVC Jacket (Black)															
1302E	–	4	500	152	26.2	11.9	0.31	7.9	100 ± 5	1	2.5	72.3	69.8	65.0	20.0
			1000	305	53.6	24.3				4	4.6	63.3	58.7	53.0	23.0
			1640	500	83.5	37.9				10	7.1	57.3	50.2	45.0	25.0
										16	9.0	54.2	45.3	40.9	25.0
										31.25	12.6	49.9	47.3	35.1	23.6
										62.5	18.0	45.4	27.4	9.1	21.5
										100	23.0	42.3	19.3	25.0	20.1
										125	25.8	40.8	15.0	23.1	19.4
										200	33.1	37.8	4.7	19.0	18.0
										250	37.3	36.3	(1.0)	17.0	17.3
										300	41.1	35.1	(6.0)	15.5	17.3
										500	54.3	31.8	(22.5)	11.0	17.3
Foam Skin Polyolefin Insulation • PVC Inner Jacket (Black) • PVC Outer Jacket (Black)															
1303E	–	4	500	152	31.3	14.2	0.34	8.7	100 ± 5	1	2.5	72.3	69.8	65.0	20.0
			1000	305	63.1	28.6				4	4.6	63.3	58.7	53.0	23.0
			1640	500	99.5	45.1	Nominal Core ID			10	7.1	57.3	50.2	45.0	25.0
							0.28	7.2		16	9.0	54.2	45.3	40.9	25.0
										31.25	12.6	49.9	47.3	35.1	23.6
										62.5	18.0	45.4	27.4	9.1	21.5
										100	23.0	42.3	19.3	25.0	20.1
										125	25.8	40.8	15.0	23.1	19.4
										200	33.1	37.8	4.7	19.0	18.0
										250	37.3	36.3	(1.0)	17.0	17.3
										300	41.1	35.1	(6.0)	15.5	17.3
										500	54.3	31.8	(22.5)	11.0	17.3
Foam Skin Polyolefin Insulation • PVC Inner Jacket (Black) • PUR Outer Jacket (Black)															
1303EPU	–	4	500	152	34.9	15.8	0.34	8.7	100 ± 5	1	2.5	72.3	69.8	65.0	20.0
			1000	305	63.2	28.7				4	4.6	63.3	58.7	53.0	23.0
			1640	500	99.7	45.2	Nominal Core ID			10	7.1	57.3	50.2	45.0	25.0
							0.28	7.2		16	9.0	54.2	45.3	40.9	25.0
										31.25	12.6	49.9	47.3	35.1	23.6
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										500	54.3	31.8	(22.5)	11.0	17.3

NOTE: Limits below 4 MHz are for information only. Recommended Connectors: Belden CAPFMFL-S1, EtherCon® compatible
BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • NEXT = Near-End Crosstalk • PSUM = Power Sum • RL = Return Loss • ACR-F = Attenuation Crosstalk Ratio Far-end

CAPFMFL-S1

Color Coding

Pair No.	Color
1	White, Blue
2	White, Orange
3	White, Green
4	White, Brown

CobraNet™ is a trademark of Cirrus Logic Inc.
EtherSound™ is a registered trademark of Digigram S.A.
Digital Snake™ is a trademark of Roland Corporation
EtherCon® is a Neutrik trademark
Rocknet™ is a trademark of Riedel Communications GmbH
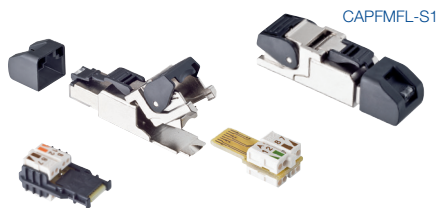
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NE8MX

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