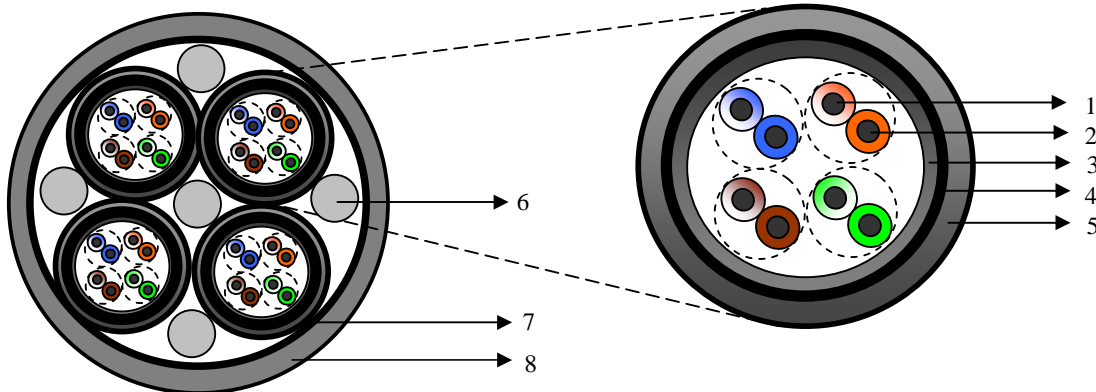


<b>TECHNICAL DATA SHEET</b>	code	<b>1305E4</b>
<b>4 Channel Catsnake™ cable</b>	version	<b>1</b>
<b>4 x CAT5e UTP PATCH PVC</b>	date	<b>2007-10-12</b>
	page	<b>1/2</b>

### APPLICATION

Cat 5e patch cable for use in digital audio systems, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet

### CONSTRUCTION



#### 1. Conductor

Material:

Stranded bare copper wire

Diameter of conductor

7x0.2 mm (AWG 24)

#### 2. Insulation

Material

Polyolefin

Nominal diameter over insulation

1.04 mm

Nominal wall thickness insulation

0.22 mm

#### 3. Inner sheath element

Material

PVC

Diameter over sheath

6.05 mm

Nominal wall thickness of sheath

0.55 mm

Colour of sheath

Black

#### 4. Foil

Non-woven foil

#### 5. Outer sheath element

Material

PVC

Diameter over sheath

7.50 mm

Nominal wall thickness of sheath

0.55 mm

Colour of sheath

Black, Numbered 1 to 4 for easy identification

#### 6. Filler

PP-fillers

#### 7. Foil

Non-woven foil

#### 8. Outer sheath Overall

Material

flexible matte PVC

Diameter over overall sheath

21.1 mm

Nominal wall thickness of overall sheath

1.3 mm

Colour of sheath

Black



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## REQUIREMENTS AND TEST METHODS

### Electrical:

Nom. Mutual Capacitance @ 1 KHz:	49 pF/m
Maximum Capacitance Unbalance (pF/100 m):	66 pF/100 m
Nominal Velocity of Propagation:	70 %
Maximum Delay (ns/100 m):	510 ns/100 m
Maximum Delay Skew (ns/100m):	25 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C:	9 Ω/100 m
Maximum DCR Unbalance @ 20 Deg. C:	3 %

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min. Return Loss (dB)
1	2.4	65.3	65.3	62.9	20
4	4.8	56.3	56.3	51.5	23
8	6.8	51.8	51.8	45.0	24.5
10	7.7	50.3	50.3	42.6	25
16	9.7	47.3	47.3	37.5	25
20	11	45.8	45.8	34.8	25
25	12.4	44.3	44.3	31.9	24.3
31.25	13.9	42.9	42.9	29.0	23.6
62.5	20.2	38.4	38.4	18.3	21.5
100	26	35.3	35.3	9.2	20.1
155	33.2	32.5	32.5	0	19
200	38.4	30.8	30.8		19
250	43.7	29.3	29.3		18
300	48.6	28.2	28.2		18
310	49.5	27.9	27.9		18
350	53.2	27.2	27.2		17

Frequency (MHz)	Input (Unfitted) Impedance (Ω)	Fitted Impedance (Ω)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.7
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.8
100	100 ± 18	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

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**Mechanical & physical:**

Resistance to flame propagation	IEC 332-1
Bending radius/setting radius of cable	10*D/5*D
Temperature range operating and processing	-5°C to +70°C
Temperature range for storage	-25°C to +70°C

**MARKING**

"CATSNAKE (TM) BY BELDEN-NL 1305E4 TACTICAL 4-CHANNEL CAT5e UTP MULTIPAIR CABLE 4xPR24 PATENTNUMBER 5, 606, 151; 5, 734, 126; 5, 763, 823 MMY" + meter marking . MMY = month/year of production.



Belden CDT believes this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

**Notes: US Patents 5, 606, 151; 5, 734, 126; 5, 763, 823.**