

**1304A Paired - CatSnake™**

	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Color Code Chart : No. 8 for DataTwist Cables (Modified Western Electric).pdf</b></p>
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**Description:**

24 AWG Bonded-Pairs stranded (7x32) bare copper conductors, polyolefin insulation, industrial grade PVC jacket. Sequential marking at two foot intervals.

**SUITABLE APPLICATIONS:**

Suitable Applications: Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	7x32
Conductor Diameter	.022 in.
Conductor Material	BC - Bare Copper

**INSULATION:**

Insulation Material	PO - Polyolefin
Nom. Insulation Wall Thickness	.0085 in.
Insulation Diameter	.041 in.

Pair Color Code Chart :

Number	Color	Number	Color
1	White/Blue Stripe & Blue	3	White/Green Stripe & Green
2	White/Orange Stripe & Orange	4	White/Brown Stripe & Brown

**OUTER SHIELD:**

Outer Shield Material: Unshielded

**OUTER JACKET:**

Outer Jacket Material: Industrial Grade PVC - Polyvinyl Chloride  
Outer Jacket Nominal Wall Thickness: .029 in.



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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	0.245 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-30°C To +75°C
Bulk Cable Weight	27 lbs/1000 ft.
Max. Recommended Pulling Tension	44 lbs.
Min. Bend Radius (Install)	2.45 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

IEC Specification	11801 Category 5e Patch
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	02/20/2006
TIA/EIA Specification	568-B.2 Category 5e Patch
Other Specification	NEMA WC-63.1 Category 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e

**SUITABILITY:**

Suitability - Indoor	Yes
Suitability - Outdoor	Yes

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
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 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	3 %
Max. Operating Voltage - UL	300 V RMS

**ELECTRICAL CHARACTERISTICS - PREMISE:**

Premise Cable Electricals Table 1 :	
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Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1	2.4	65.3	65.3		62.9	20.0	
4	4.8	56.3	56.3		51.5	23.0	
8	6.8	51.8	51.8		45.0	24.5	
10	7.7	50.3	50.3		42.6	25.0	
16	9.7	47.3	47.3		37.5	25.0	
20	11.0	45.8	45.8		34.8	25.0	
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	26.0	35.3	35.3		9.2	20.1	
155	33.2	32.5	32.5		0	19.0	
200	38.4	30.8	30.8			19.0	
250	43.7	29.3	29.3			18.0	
300	48.6	28.2	28.2			18.0	
310	49.5	27.9	27.9			18.0	
350	53.2	27.2	27.2			17.0	

Premise Cable Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	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

**NOTES:**

Notes

US Patents 5, 606, 151; 5, 734, 126; 5, 763, 823. EtherNet/IP is a trademark of ControlNet International, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating.

**PUT-UPS AND COLORS:**

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Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1304A B59100	DELETE	100	0	BLACK, MATTE	
1304A B591000	4 PR #24 PP FRPVC	1000	28	BLACK, MATTE	
1304A B59500	4 PR #24 PP FRPVC	500	14.5	BLACK, MATTE	

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