

1305A Paired - UpJacketed CatSnake™

	<p>Metric Version For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : No. 8 for DataTwist Cables (Modified Western Electric).pdf</p>
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Description:

24 AWG Bonded-Pairs stranded (7x32) bare copper conductors, polyolefin insulation, inner and outer PVC jackets. 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	0.559 mm
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO - Polyolefin
Nom. Insulation Wall Thickness	0.216 mm
Insulation Diameter	1.041 mm

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

INNER JACKET:

Inner Jacket Material	PVC - Polyvinyl Chloride
Inner Jacket Nominal Wall Thickness	0.546 mm
Inner Jacket Diameter	6.045 mm



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OUTER SHIELD:

Outer Shield Material	Unshielded
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Nominal Wall Thickness	0.724 mm

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	7.493 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +60°C
Bulk Cable Weight	58.04 Kg/Km
Max. Recommended Pulling Tension	195.721 N
Min. Bend Radius (Install)	76.2 mm

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	49.215 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 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	3 %
Max. Operating Voltage - UL	300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE:

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Premise Cable Electricals Table 1 :

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	
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	

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.

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PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1305A B59100	DELETE	30.48	0	BLACK, MATTE	
1305A B591000	4 PR #24 PP FRPVC PVC	304.8	19.068	BLACK, MATTE	
1305A B59500	4 PR #24 PP FRPVC PVC	152.4	10.442	BLACK, MATTE	

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