

**Detailed Specifications &
Technical Data**



1864A Paired - DataTwist® Category 5

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : No. 4 for Paired Cables.pdf</p>
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Description:

25 Pair UTP, 100MHz Category 5, Riser Rated, 24 AWG Solid Bare Copper, Polyolefin Insulation, PVC Jacket, Rip Cord, Sequential Marking at Two Foot Intervals.

SUITABLE APPLICATIONS:

Suitable Applications	Premise Backbone Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Video, RS-422, Noisy Environments
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	25
Total Number of Conductors	50
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO - Polyolefin
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Pair Color Code Chart :

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Number	Color	Number	Color
1	White & Blue	14	Black & Brown
2	White & Orange	15	Black & Gray
3	White & Green	16	Yellow & Blue
4	White & Brown	17	Yellow & Orange
5	White & Gray	18	Yellow & Green
6	Red & Blue	19	Yellow & Brown
7	Red & Orange	20	Yellow & Gray
8	Red & Green	21	Purple & Blue
9	Red & Brown	22	Purple & Orange
10	Red & Gray	23	Purple & Green
11	Black & Blue	24	Purple & Brown
12	Black & Orange	25	Purple & Gray
13	Black & Green		

OUTER SHIELD:

Outer Shield Material	Unshielded
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.526 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
Bulk Cable Weight	135 lbs/1000 ft.
Max. Recommended Pulling Tension	100 lbs.
Min. Bend Radius (Install)	5.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR, UL444
CEC/C(UL) Specification	CMR
TIA/EIA Specification	568-B.2 Category 5
Other Specification	NEMA WC-63.1 Category 5, UL verified to Category 5

FLAME TEST:

UL Flame Test	UL1666 Riser
CSA Flame Test	FT4

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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Plenum Number	1871A
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ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	330 pF/100 m
Nominal Velocity of Propagation	71 %
Maximum Delay (ns/100 m)	538 @ 100MHz ns/100 m
Maximum Delay Skew (ns/100m)	45 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9.38 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	5 %
Max. Operating Voltage - UL	300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE:

Premise Cable Electricals :

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Structural Return Loss (dB)	Fitted Impedance (Ohms)
1	2.0		62.3	23.0	100 ± 15%
4	4.1		53.3	23.0	100 ± 15%
8	5.8		48.8	23.0	100 ± 15%
10	6.5		47.3	23.0	100 ± 15%
16	8.2		44.3	23.0	100 ± 15%
20	9.3		42.8	23.0	100 ± 15%
25	10.4		41.3	20.0	100 ± 15%
31.25	11.7		39.9	21.1	100 ± 15%
62.5	17.0		35.4	18.0	100 ± 15%
100	22.0		32.3	16.0	100 ± 15%

NOTES:

Notes	Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5.
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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1864A 0061000	25 PR #24 PP PVC	1000	144	BLUE, LIGHT	C
1864A F2V1000	25 PR #24 PP PVC	1000	144	GRAY, DEC	C

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-09-2004

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