


**Detailed Specifications &  
Technical Data**



**1227A1 Paired - DataTwist® 3 UTP Cable**

	<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. 5 for Paired Cables (Western Electric Standard).pdf</b></p>
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**Description:**

24 AWG solid bare copper conductors, twisted pairs, polyolefin insulation, PVC jacket. Sequential marking at two foot intervals.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	2
Total Number of Conductors	4
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

**INSULATION:**

Insulation Material	PO - Polyolefin
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Pair Color Code Chart :

Number	Color	Number	Color
1	White/Blue Stripe & Blue	2	White/Orange Stripe & Orange

**OUTER SHIELD:**

Outer Shield Material	Unshielded
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**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	No

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.173 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +80°C
Bulk Cable Weight	13 lbs/1000 ft.
Max. Recommended Pulling Tension	15 lbs.

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Min. Bend Radius (Install)	0.8 in.
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**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CMR, UL444
IEEE Specification	802.3 10BaseT, 100BaseT4
TIA/EIA Specification	568-B.2 Category 3
Other Specification	NEMA WC-63 Category 3, UL verified to TIA/EIA-568-B.2, Category 3

**FLAME TEST:**

UL Flame Test	UL1666 Riser
CSA Flame Test	FT4

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
Plenum Number	1243A2

**ELECTRICAL CHARACTERISTICS:**

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	330 pF/100 m
Nominal Velocity of Propagation	70 %
Nominal Delay	1.5 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	28.0 Ohms/1000 ft
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	2.56	41.0	No Spec	12.0	100 ± 15%
4	5.58	32.0	No Spec	12.0	100 ± 15%
8	8.50	27.0	No Spec	12.0	100 ± 15%
10	9.71	26.0	No Spec	12.0	100 ± 15%
16	13.10	23.0	No Spec	9.96	100 ± 15%

**NOTES:**

Notes	Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 3
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**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
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1227A1 008U1000	2 PR #24 PP PVC	U1000	14	GRAY	
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