

## 1243A2 Multi-Conductor - Category 3 Unbonded-Pair Cable



### Description:

24 AWG solid bare copper conductors, twisted pairs, plenum, low-smoke PVC insulation, twisted pairs, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
2	24	Solid	BC - Bare Copper

#### Insulation

Insulation Material:

Insulation Material
LS PVC - Low Smoke Polyvinyl Chloride

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

### Overall Cabling

Overall Nominal Diameter: 0.135 in.

### Pair

Pair Color Code Chart:

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

### Mechanical Characteristics (Overall)

Installation Temperature Range:	0°C To +60°C
Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	12 lbs/1000 ft.
Max. Recommended Pulling Tension:	15 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
IEEE Specification:	802.3 10BaseT, 100BaseT4
EU CE Mark:	Yes

## 1243A2 Multi-Conductor - Category 3 Unbonded-Pair Cable

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	06/01/2007
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	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:	NFPA 262 Plenum Flame Test (UL910)(FT6)
CSA Flame Test:	FT6

### Plenum/Non-Plenum

Non-Plenum Number:	1227A1
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## Electrical Characteristics (Overall)

### Nom. Mutual Capacitance:

Capacitance (pF/ft)
19

### Nominal Velocity of Propagation:

VP (%)
61

Maximum Capacitance Unbalance (pF/100 m):	330
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### Nominal Delay:

Delay (ns/ft)
1.5

### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.38

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
5

## Electrical Characteristics-Premise (Overall)

### Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
1	2.56	41.0	No Spec	12.0	100 ± 15%
4	5.58	32.0	No Spec	12.0	100 ± 15%
10	9.71	26.	No Spec	12.00	100 ± 15%
16	13.10	23	No Spec	9.96	100 ± 15%

## Notes (Overall)

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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## 1243A2 Multi-Conductor - Category 3 Unbonded-Pair Cable

1243A2 009U1000	1,000 FT	14.000 LB	WHITE	2 PR #24 FLRST FLRST
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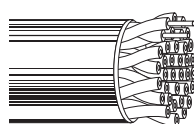
# DataTwist® 3 UTP Cable

## TIA/EIA-568-A, Category 3 Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR (Cond.)	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Min. NEXT (dB)	Maximum Attenuation	
				Ft.	m	Lbs.	kg	Inch	mm			* pF/Ft.	* pF/m			(dB/ 1000')	(dB/ 100m)

**24 AWG** Solid Bare Copper Conductors • Twisted Pairs • See Color Code Chart (below)

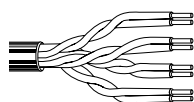
### Non-Plenum • Polyolefin Insulation • Gray PVC Jacket



<b>1227A1</b>	NEC:	2	U-1000	U-304.8	13.0	6.0	.173	4.39	28.0Ω/M'	100	19.0	62.3	1	41.0	7.8	2.56
	CMR												4	32.0	17.0	5.58
	CEC:												10	26.0	30.0	9.71
	CMR												16	23.0	40.0	13.10
<b>1229A1</b>	NEC:	4	U-1000	U-304.8	22.0	10.0	.197	5.00								
	CMR															
<b>1232A1</b>	NEC:	25†	1000	304.8	104.0	47.2	.399	10.14								
	CMR															

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 3

### Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket



<b>1243A2</b>	NEC:	2	U-1000	U-304.8	14.0	6.4	.170	4.32	28.0Ω/M'	100	19.0	62.3	1	41.0	7.8	2.56
	CMP												4	32.0	17.0	5.58
	CEC:												10	26.0	30.0	9.71
	CMP												16	23.0	40.0	13.10
<b>1245A2</b>	NEC:	4	U-1000	U-304.8	23.0	10.4	.200	5.08								
	CMP															

Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-A, Category 3

DCR = DC Resistance • NEXT = Near-end Crosstalk • UTP = Unshielded Twisted Pair(s)

\*Capacitance between conductors  
† 25-pair NEXT is Power Sum tested.

### Color Codes: DataTwist 3

Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe	14	Black/Brown Stripe & Brown/Black Stripe
2	White/Orange Stripe & Orange/White Stripe	15	Black/Gray Stripe & Gray/Black Stripe
3	White/Green Stripe & Green/White Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe
4	White/Brown Stripe & Brown/White Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe
5	White/Gray Stripe & Gray/White Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe
6	Red/Blue Stripe & Blue/Red Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe
7	Red/Orange Stripe & Orange/Red Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe
8	Red/Green Stripe & Green/Red Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
9	Red/Brown Stripe & Brown/Red Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
10	Red/Gray Stripe & Gray/Red Stripe	23	Purple/Green Stripe & Green/Purple Stripe
11	Black/Blue Stripe & Blue/Black Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
12	Black/Orange Stripe & Orange/Black Stripe	25	Purple/Gray Stripe & Gray/Purple Stripe
13	Black/Green Stripe & Green/Black Stripe		