

1227A1 Multi-Conductor - Category 3 Unbonded-Pair Cable



Description:

24 AWG solid bare copper conductors, twisted pairs, non-plenum, Polyolefin insulation, see color code chart (below), Gray PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

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

Insulation

Insulation Material:

Insulation Material
PP - Polypropylene

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.173 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	13 lbs/1000 ft.
Max. Recommended Pulling Tension:	15 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.800 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR, CMX OUTDOOR, UL444
CEC/C(UL) Specification:	CMR, CMX OUTDOOR
IEEE Specification:	802.3 10BaseT, 100BaseT4
EU CE Mark:	Yes

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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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:	UL1666 Riser
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1243A2

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Nominal Velocity of Propagation:

VP (%)
70

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Delay:

Delay (ns/ft)
1.5

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
28.0

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%

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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 (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
1227A1 Q5HU1000	1,000 FT	14.000 LB	WHITE, NEUTRAL		2 PR #24 PO FRPVC
1227A1 008U1000	1,000 FT	14.000 LB	GRAY		2 PR #24 PO FRPVC

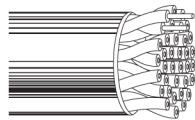
DataTwist® 3 UTP Cable

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)

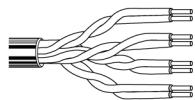
Non-Plenum • Polyolefin Insulation • Gray PVC Jacket



1227A1	NEC:	2	U-1000	U-304.8	13.0	6.0	.173	4.39	28.0Ω/M'	91.8Ω/km	100	19.0	62.3	1	41.0	7.8	2.56
	CEC:													4	32.0	17.0	5.58
	CMR													10	26.0	30.0	9.71
	CMR													16	23.0	40.0	13.10
1229A1	NEC:	4	U-1000	U-304.8	22.0	10.0	.197	5.00									
CEC:																	
CMR																	
CMR																	
1232A1	NEC:	25†	1000	304.8	104.0	47.2	.399	10.14									
CEC:																	
CMR																	
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



1243A2	NEC:	2	U-1000	U-304.8	14.0	6.4	.170	4.32	28.0Ω/M'	91.8Ω/km	100	19.0	62.3	1	41.0	7.8	2.56
	CEC:													4	32.0	17.0	5.58
	CMP													10	26.0	30.0	9.71
	CMP													16	23.0	40.0	13.10
1245A2	NEC:	4	U-1000	U-304.8	23.0	10.4	.200	5.08									
CEC:																	
CMP																	
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.

Not RoHS compliant at time of printing.

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		