

1583A**Multi-Conductor - Category 5e Unbonded-Pair Cable**

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, rip cord, PVC jacket



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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
ND0099 0101000	305 MT	9.525 KG	BLACK	C	4 PR #24 PO PVC
ND0101 0101000	305 MT	9.525 KG	BLACK	C	4 PR #24 PO PVC
1583A 002U1000	305 MT	9.525 KG	RED		4 PR #24 PO PVC
1583A 0021000	305 MT	9.525 KG	RED	C	4 PR #24 PO PVC
1583A 003U1000	305 MT	9.525 KG	ORANGE		4 PR #24 PO PVC
1583A 0031000	305 MT	9.525 KG	ORANGE	C	4 PR #24 PO PVC
1583A 004U1000	305 MT	9.525 KG	YELLOW		4 PR #24 PO PVC
1583A 0041000	305 MT	8.618 KG	YELLOW	C	4 PR #24 PO PVC
1583A 005U1000	305 MT	9.072 KG	GREEN, DARK		4 PR #24 PO PVC
1583A 0051000	305 MT	8.618 KG	GREEN, DARK	C	4 PR #24 PO PVC
1583A 006U1000	305 MT	9.525 KG	BLUE, LIGHT		4 PR #24 PO PVC
1583A 0061000	305 MT	8.618 KG	BLUE, LIGHT	C	4 PR #24 PO PVC
1583A 0061640	500 MT	15.622 KG	BLUE, LIGHT		4 PR #24 PO PVC
1583A 0061643	500 MT	15.622 KG	BLUE, LIGHT		4 PR #24 PO PVC
1583A 0063000	914 MT	27.216 KG	BLUE, LIGHT	C	4 PR #24 PO PVC
1583A 008U1000	305 MT	9.072 KG	GRAY	C	4 PR #24 PO PVC
1583A 0081000	305 MT	9.525 KG	GRAY	C	4 PR #24 PO PVC
1583A 0081640	500 MT	15.622 KG	GRAY	C	4 PR #24 PO PVC
1583A 0081643	500 MT	15.622 KG	GRAY		4 PR #24 PO PVC
1583A 0083000	914 MT	27.216 KG	GRAY	C	4 PR #24 PO PVC
1583A 009U1000	305 MT	9.525 KG	WHITE		4 PR #24 PO PVC
1583A 0091000	305 MT	8.618 KG	WHITE	C	4 PR #24 PO PVC
1583A 0093000	914 MT	27.216 KG	WHITE	C	4 PR #24 PO PVC

1583A 010U1000	305 MT	9.525 KG	BLACK		4 PR #24 PO PVC
1583A 0101000	305 MT	9.525 KG	BLACK	C	4 PR #24 PO PVC
1583A 012U1000	305 MT	9.525 KG	PINK		4 PR #24 PO PVC
1583A 0121000	305 MT	9.525 KG	PINK	C	4 PR #24 PO PVC

Notes:

C = CRATE REEL PUT-UP.

Suitable Applications (Overall)**Suitable Applications:**

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation**Insulation Material:**

Insulation Material
PO - Polyolefin

Outer Shield**Outer Shield Material:**

Outer Shield Material
Unshielded

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

Overall Cabling**Overall Nominal Diameter:**

4.801 mm

Pair**Pair Color Code Chart:**

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Mechanical Characteristics (Overall)**Bulk Cable Weight:**

29.764 Kg/Km

Max. Recommended Pulling Tension:

155.687 N

Min. Bend Radius (Install)/Minor Axis:

12.700 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards

NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMR
IEC Specification:	11801 Category 5
EU CE Mark (Y/N):	Yes
EU RoHS Compliant (Y/N):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
TIA/EIA Specification:	568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, UL verified to Category 5e

Flame Test

UL Flame Test:	UL1666 Riser,UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Sunlight Resistance:	No
Oil Resistance:	No
Non-halogenated:	No

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)	49.215
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Nominal Velocity of Propagation:

VP (%)	70
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Maximum Capacitance Unbalance (pF/100 m):	330
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Maximum Delay:

Delay (ns/100 m)	538 @ 100MHz
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Max. Delay Skew:

Delay Skew (ns/100 m)	45
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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 (%)**

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Electrical Characteristics-Premise (Overall)**Premise Cable Electrical Table 1:**

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.000	65.3	62.3	63.0	60.3	20.000
4	4.100	56.3	53.3	51.0	49.2	23.000
8	5.800	51.8	48.8	46.0	43.0	24.500
10	6.500	50.3	47.3	43.0	40.8	25.000
16	8.200	47.3	44.3	39.0	36.0	25.000
20	9.300	45.8	42.8	36.5	33.5	25.000
25	10.400	44.3	41.3	33.9	30.9	24.300
31.25	11.700	42.9	39.9	31.0	28.2	23.600
62.5	17.000	38.4	35.4	22.0	19.0	21.500
100	22.000	35.3	32.3	14.0	10.3	20.100
155	28.100	32.5	29.5	4.4	1.4	15.800
200	32.400	30.8	27.8	4.0	1.0	15.000

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	63.8	60.8
4	100 ± 15	51.7	48.7
8	100 ± 15	45.7	42.7
10	100 ± 15	43.8	40.8
16	100 ± 15	39.7	36.7
20	100 ± 15	37.7	34.7
25	100 ± 15	35.8	32.8
31.25	100 ± 15	33.9	30.9
62.5	100 ± 15	27.8	24.9
100	100 ± 15	23.8	20.8
155	100 ± 25	19.9	16.9
200	100 ± 25	17.7	14.7

Notes (Overall)

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