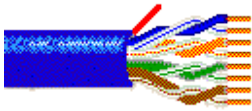


## 1585A Multi-Conductor - Category 5e Unbonded-Pair Cable



### Description:

24 AWG solid bare copper conductors, Dual FRPO/FEP insulation, Flamarrest® jacket with ripcord, sequential footage marking every two feet.

### Usage (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
FRPO/FEP - Flame Retardant Polyolefin/Fluorinated Ethylene Propylene

#### 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

**Outer Jacket Ripcord:** Yes

#### Overall Cabling

**Overall Nominal Diameter:** 0.198 in.

#### 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)

**Operating Temperature Range:** -20°C To +75°C

**Bulk Cable Weight:** 24.400 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 35 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 0.500 in.

## 1585A Multi-Conductor - Category 5e Unbonded-Pair Cable

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, UL444
CEC/C(UL) Specification:	CMP
Other Standards:	11801 Category 5
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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 5e
Other Specification:	NEMA WC-63.1 Category 5e, ETL Verified to Category 5e

#### Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT4, FT6

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1583A, 1583R

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)  
15

#### Nominal Velocity of Propagation:

VP (%)  
72

Maximum Capacitance Unbalance (pF/100 m): 330

#### Maximum Delay:

Delay (ns/100 m)  
538 @ 100MHz

#### Max. Delay Skew:

Delay Skew (ns/100 m)  
45

#### 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 (%)  
3

## 1585A Multi-Conductor - Category 5e Unbonded-Pair Cable

### 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)	Min. SRL (dB)
1	2.0	65.3	62.3	63.0	60.3	20.0	23.0
4	4.1	56.3	53.3	51.0	49.2	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	40.8	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.2	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	10.3	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	15.0	

Premise Cable Electrical Table 2:

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

### Notes (Overall)

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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1585A D15U1000	1,000 FT	230.000 LB	BLUE		4 PR #24 FRPO/FEP FLMRST
1585A D15I1000	1,000 FT	22.000 LB	BLUE	C	4 PR #24 FRPO/FEP FLMRST
1585A D153000	3,000 FT	66.000 LB	BLUE	C	4 PR #24 FRPO/FEP FLMRST
1585A 002U1000	1,000 FT	22.000 LB	RED		4 PR #24 FRPO/FEP FLMRST
1585A 002I1000	1,000 FT	22.000 LB	RED	C	4 PR #24 FRPO/FEP FLMRST
1585A 003U1000	1,000 FT	22.000 LB	ORANGE		4 PR #24 FRPO/FEP FLMRST
1585A 003I1000	1,000 FT	22.000 LB	ORANGE	C	4 PR #24 FRPO/FEP FLMRST
1585A 004U1000	1,000 FT	22.000 LB	YELLOW		4 PR #24 FRPO/FEP FLMRST
1585A 004I1000	1,000 FT	22.000 LB	YELLOW	C	4 PR #24 FRPO/FEP FLMRST
1585A 005U1000	1,000 FT	22.000 LB	GREEN, DARK		4 PR #24 FRPO/FEP FLMRST
1585A 005I1000	1,000 FT	22.000 LB	GREEN, DARK	C	4 PR #24 FRPO/FEP FLMRST
1585A 008U1000	1,000 FT	22.000 LB	GRAY		4 PR #24 FRPO/FEP FLMRST
1585A 008I1000	1,000 FT	22.000 LB	GRAY	C	4 PR #24 FRPO/FEP FLMRST
1585A 009U1000	1,000 FT	21.000 LB	WHITE		4 PR #24 FRPO/FEP FLMRST
1585A 009I1000	1,000 FT	22.000 LB	WHITE	C	4 PR #24 FRPO/FEP FLMRST
1585A 010U1000	1,000 FT	22.000 LB	BLACK		4 PR #24 FRPO/FEP FLMRST
1585A 010I1000	1,000 FT	22.000 LB	BLACK	C	4 PR #24 FRPO/FEP FLMRST
1585A 012U1000	1,000 FT	22.000 LB	PINK		4 PR #24 FRPO/FEP FLMRST
1585A 012I1000	1,000 FT	22.000 LB	PINK	C	4 PR #24 FRPO/FEP FLMRST
1585A 877U1000	1,000 FT	22.000 LB	NATURAL		4 PR #24 FRPO/FEP FLMRST
1585A 877I1000	1,000 FT	22.000 LB	NATURAL	C	4 PR #24 FRPO/FEP FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

# Data and Voice Cable

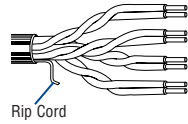
## Category 5e UTP Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

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

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Available in Red, Orange, Yellow, Green, Blue, Gray, White or Pink)

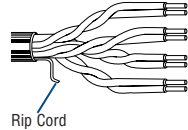
80°C	1583R	NEC: CMR CEC: CMR FT4	4	U-1000 1000	U-304.8 304.8	23.0 22.0	10.5 10.0	.195	4.95	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.0 49.0 41.0 36.0 28.0 19.0 11.0 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
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Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e  
\*3000 ft. put-ups available in Gray, White or Blue only.

**Plenum • FRPO/FEP Insulation • Flamarrest® Jacket** (Red, Orange, Yellow, Green, Blue, Gray, White, Natural, Black or Pink)

75°C	1585A	NEC: CMP CEC: CMP FT6	4	U-1000 1000	U-304.8 304.8	23.0 24.0	10.5 10.9	.195	4.95	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.0 49.0 41.0 36.0 28.0 19.0 11.0 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
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Jacket sequentially marked at 2 ft. intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e  
\*3000 ft. put-up available in Natural or Blue only.

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene-Propylene • FRPO = Flame-retardant Polyolefin • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

**Color Codes**

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown