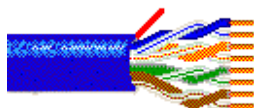


1585A Multi-Conductor - Category 5e Unbonded-Pair Cable

**Description:**

24 AWG solid bare copper conductors, Dual FRPO/FEP insulation, Flammarrest® 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
Flammarrest®	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. Third 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

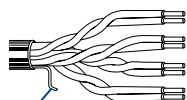
Category 5e UTP Cables

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	U-304.8	21.0	9.5	.197	5.00	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
				1000	304.8	22.0	10.0						4	4.1	53.3	49.0	48.7	100±15	23.0
				3000	914.4	63.0	28.6						10	6.5	47.3	41.0	40.8	100±15	25.0
													16	8.2	44.3	36.0	36.7	100±15	25.0
													31.25	11.7	39.9	28.0	30.9	100±15	23.6
													62.5	17.0	35.4	19.0	24.8	100±15	21.5
													100	22.0	32.3	11.0	20.8	100±15	20.1
													200	32.0	27.8	1.0	14.7	100±25	15.0



Rip Cord

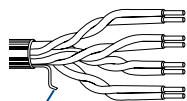
Jacket sequentially marked at 2 ft. intervals.

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	U-304.8	23.0	10.5	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
				1000	304.8	24.0	10.9						4	4.1	53.3	49.0	48.7	100±15	23.0
				3000	914.4	69.0	31.4						10	6.5	47.3	41.0	40.8	100±15	25.0
													16	8.2	44.3	36.0	36.7	100±15	25.0
													31.25	11.7	39.9	28.0	30.9	100±15	23.6
													62.5	17.0	35.4	19.0	24.8	100±15	21.5
													100	22.0	32.3	11.0	20.8	100±15	20.1
													200	32.0	27.8	1.0	14.7	100±25	15.0



Rip Cord

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