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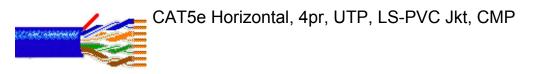
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## Part Number: 1585A



## **Product Description**

CAT5e (200MHz), 4-Pair, U/UTP-unshielded, Plenum-CMP, Premise Horizontal cable, 24 AWG solid bare copper conductors, dual FRPO/FEP insulation, ripcord, Flamarrest® jacket.

## **Technical Specifications**

## **Product Overview**

| Environmental Space:   | Plenum  |
|------------------------|---|
| Suitable Applications: | Horizontal, 1000BaseT, Gigabit Ethernet, 100BaseTX, Fast Ethernet, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Video, RS-422 |

## **Physical Characteristics (Overall)**

| Condu   | Conductor              |                  |              |
|---------|------------------------|------------------|--------------|
| AWG     | Stranding              | Material         | No. of Pairs |
| 24      | Solid                  | BC - Bare Copper | 4            |
| Condu   | ctor Count:            |                  | 8            |
| Total I | Number of Pa           | airs:            | 4            |
| Condu   | Conductor Size: 24 AWG |                  |              |

#### Insulation

Material FEP - Fluorinated Ethylene Propylene

## Color Chart

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

#### Outer Jacket Material

| Material                              | Nominal Diameter | Ripcord |
|---------------------------------------|------------------|---------|
| LS PVC - Low Smoke Polyvinyl Chloride | 0.190 in         | Yes     |

## **Electrical Characteristics**

| Conductor DCR              | onductor DCR                         |                |  |
|----------------------------|--------------------------------------|----------------|--|
| Max. Conductor DCR Max. D  | ax. Conductor DCR Max. DCR Unbalance |                |  |
| 93.8 Ohm/km 5 %            |                                      |                |  |
|                            |                                      |                |  |
| Capacitance                |                                      |                |  |
| Max. Capacitance Unbalance | Nom.Mutu                             | al Capacitance |  |
| 330 pF/100m                | 30 pF/100m 15 pF/ft                  |                |  |
| Shielding:                 | Shielding: U/UTP - Unshielded        |                |  |
| Delay                      |                                      |                |  |
|                            |                                      |                |  |

| Frequency [MHz] | Max. Delay    | Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|-----------------|--|
| 100 MHz         | 537.6 ns/100m | 45 ns/100m      | 72 %                                     |

## High Freq

| Frequency<br>[MHz] | Max. Insertion Loss<br>(Attenuation) | Min.<br>NEXT [dB] | Min.<br>PSNEXT [dB] | Min.<br>ACR [dB] | Min.<br>PSACR [dB] | Min. ACRF<br>(ELFEXT) [dB] | Min. PSACRF<br>(PSELFEXT) [dB] | Min. RL (Return<br>Loss) [dB] | Max./Min. Input<br>Impedance (unFitted) | Max./Min. Fitted<br>Impedance |
|--------------------|--------------------------------------|-------------------|---------------------|------------------|--------------------|----------------------------|--------------------------------|-------------------------------|---|-------------------------------|
| 1 MHz              | 2.0 dB/100m                          | 65.3 dB           | 62.3 dB             | 63.3 dB          | 60.3 dB            | 63.8 dB                    | 60.8 dB                        | 20.0 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 4 MHz              | 4.1 dB/100m                          | 56.3 dB           | 53.3 dB             | 52.2 dB          | 49.2 dB            | 51.8 dB                    | 48.8 dB                        | 23.0 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 8 MHz              | 5.8 dB/100m                          | 51.8 dB           | 48.8 dB             | 46.0 dB          | 43.0 dB            | 45.7 dB                    | 42.7 dB                        | 24.5 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 10 MHz             | 6.5 dB/100m                          | 50.3 dB           | 47.3 dB             | 43.8 dB          | 40.8 dB            | 43.8 dB                    | 40.8 dB                        | 25.0 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 16 MHz             | 8.2 dB/100m                          | 47.2 dB           | 44.2 dB             | 39.0 dB          | 36.0 dB            | 39.7 dB                    | 36.7 dB                        | 25.0 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 20 MHz             | 9.3 dB/100m                          | 45.8 dB           | 42.8 dB             | 36.5 dB          | 33.5 dB            | 37.8 dB                    | 34.8 dB                        | 25.0 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 25 MHz             | 10.4 dB/100m                         | 44.3 dB           | 41.3 dB             | 33.9 dB          | 30.9 dB            | 35.8 dB                    | 32.8 dB                        | 24.3 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 31.25 MHz          | 11.7 dB/100m                         | 42.9 dB           | 39.9 dB             | 31.2 dB          | 28.2 dB            | 33.9 dB                    | 30.9 dB                        | 23.6 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 62.5 MHz           | 17.0 dB/100m                         | 38.4 dB           | 35.4 dB             | 21.4 dB          | 18.4 dB            | 27.9 dB                    | 24.9 dB                        | 21.5 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 100 MHz            | 22.0 dB/100m                         | 35.3 dB           | 32.3 dB             | 13.3 dB          | 10.3 dB            | 23.8 dB                    | 20.8 dB                        | 20.1 dB                       | 100 ± 15 Ohm                            | 100 ± 15 Ohm                  |
| 155 MHz            | 28.1 dB/100m                         | 32.4 dB           | 29.4 dB             | 4.4 dB           | 1.4 dB             | 20.0 dB                    | 17.0 dB                        | 18.8 dB                       |   |                               |
| 200 MHz            | 32.4 dB/100m                         | 30.8 dB           | 27.8 dB             | 4.0 dB           | 1.0 dB             | 17.8 dB                    | 14.8 dB                        | 18.0 dB                       |   |                               |

## Voltage

## UL Voltage Rating

```
300 V RMS
```

## **Temperature Range**

| Installation Temp Range: | 0°C To +50°C   |
|--------------------------|----------------|
| UL Temp Rating:          | 75°C           |
| Storage Temp Range:      | -20°C To +75°C |
| Operating Temp Range:    | -20°C To +75°C |

## **Mechanical Characteristics**

| Bulk Cable Weight:               | 21 lbs/1000ft |
|----------------------------------|---------------|
| Max Recommended Pulling Tension: | 25 lbs        |
| Min Bend Radius/Minor Axis:      | 1.0 in        |
| Min Bend Radius/Installation:    | 2.0 in        |

## Standards

| NEC Articles:                         | 800  |  |
|---------------------------------------|--|--|
| NEC/(UL) Specification:               | CMP  |  |
| CEC/C(UL) Specification:              | CMP  |  |
| ISO/IEC Compliance:                   | 11801 ed 2.2 (2011) Class D                              |  |
| CPR Euroclass:                        | Eca  |  |
| Data Category:                        | Category 5e  |  |
| ANSI Compliance:                      | S-90-661-2012 Category 5e, ANSI/NEMA WC-63.1 Category 5e |  |
| Telecommunications Standards:         | ANSI/TIA-568-C.2 Category 5e                             |  |
| IEEE Specification:                   | IEEE 802.3bt Type 1, Type 2, Type 3                      |  |
| Third Party Performance Verification: | Category 5e  |  |

## Applicable Environmental and Other Programs

| EU Directive 2000/53/EC (ELV):         | Yes        |
|--|------------|
| EU Directive 2002/96/EC (WEEE):        | Yes        |
| EU Directive 2003/11/EC (BFR):         | Yes        |
| EU Directive 2003/96/EC (BFR):         | Yes        |
| EU Directive 2011/65/EU (ROHS II):     | Yes        |
| EU Directive 2012/19/EU (WEEE):        | Yes        |
| EU Directive 2015/863/EU:              | Yes        |
| EU Directive Compliance:               | Yes        |
| EU CE Mark:                            | Yes        |
| EU REACH SVHC Compliance (yyyy-mm-dd): | 2017-07-10 |
| EU RoHS Compliance Date (yyyy-mm-dd):  | 2004-01-01 |
| CA Prop 65 (CJ for Wire & Cable):      | Yes        |
| MII Order #39 (China RoHS):            | Yes        |

#### Suitability

| Suitability - Aerial:              | No  |
|------------------------------------|-----|
| Suitability - Burial:              | No  |
| Suitability - Hazardous Locations: | No  |
| Suitability - Indoor:              | Yes |
| Suitability - Non-Halogenated:     | No  |
| Suitability - Oil Resistance:      | No  |
| Suitability - Outdoor:             | No  |
| Suitability - Sunlight Resistance: | No  |

## Flammability, LS0H, Toxicity Testing

1583A

| C(UL) Flammability: | FT6                      |
|---------------------|--------------------------|
| UL Flammability:    | NFPA 262 Plenum (UL 910) |
| CSA Flammability:   | FT6                      |
| UL voltage rating:  | 300 V RMS                |

## Plenum/Non-Plenum

| Plenum (Y/N): | Yes |  |  |
|---------------|-----|--|--|

#### Part Number

| Non-Plenum | Number: |
|------------|---------|

| Non-Plenum Numb | er:     |        |  |  |  |
|-----------------|---------|--------|--|--|--|
| Variants        |         |        |  |  |  |
| ltem #          | Color   | Footno |  |  |  |
| 1585A 0101000   | Black   | С      |  |  |  |
| 1585A 010500    | Black   |        |  |  |  |
| 1585A 010U1000  | Black   |        |  |  |  |
| 1585A D151000   | Blue    | С      |  |  |  |
| 1585A D153000   | Blue    | С      |  |  |  |
| 1585A D15U1000  | Blue    |        |  |  |  |
| 1585A 0081000   | Gray    | С      |  |  |  |
| 1585A 008U1000  | Gray    |        |  |  |  |
| 1585A 0051000   | Green   | С      |  |  |  |
| 1585A 005U1000  | Green   |        |  |  |  |
| 1585A 8771000   | Natural | С      |  |  |  |
| 1585A 877U1000  | Natural |        |  |  |  |
| 1585A 0031000   | Orange  | С      |  |  |  |
| 1585A 003U1000  | Orange  |        |  |  |  |
| 1585A 0121000   | Pink    | С      |  |  |  |
| 1585A 012U1000  | Pink    |        |  |  |  |
| 1585A 0021000   | Red     | С      |  |  |  |
| 1585A 002U1000  | Red     |        |  |  |  |
| 1585A 0091000   | White   | С      |  |  |  |
| 1585A 009U1000  | White   |        |  |  |  |
| 1585A 0041000   | Yellow  | С      |  |  |  |
| 1585A 004U1000  | Yellow  |        |  |  |  |

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C - CRATE REEL PUT-UP.

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