



Product: [7815A](#) 

CAT 6 4P 24AWG, F/UTP, PVC Jkt, Indoor, CM

Product Description

CAT 6 4PR x 24AWG F/UTP, Solid Bare Copper Conductor, PE Insulation, Overall Foil Shield,CM, PVC Jacket, Indoor

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, 250MHz Category 6 |
|------------------------|---|

Construction Details

Conductor

| Size | Stranding | Material | No. of Pairs |
|------|-----------|------------------|--------------|
| 24 | Solid | BC - Bare Copper | 4 |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|-------------------|--------------------------|--|
| PE - Polyethylene | 1.08 mm (0.0425 in) | Blue & White with Blue Stripe, Orange & White with Orange Stripe, Green & White with Green Stripe, Brown & White with Brown Stripe |

Outer Shield

| Shield Type | Material | Coverage |
|-------------|-------------------------|----------|
| Tape | Bi-Laminate (Alum+Poly) | 100% |

Outer Jacket

| Material | Nom. Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 7.1 mm (0.28 in) | Yes |

Electrical Characteristics

Electricals

| Max. Conductor DCR | Max. Mutual Capacitance | Max. Capacitance Unbalance | Nom. Characteristic Impedance |
|-------------------------------|-------------------------|----------------------------|-------------------------------|
| 93.8 Ohm/km (28.6 Ohm/1000ft) | 56 pF/m (17 pF/ft) | 330 pF/100m | 100 Ohm |

Delay

| Frequency | Max. Delay | Max. Delay Skew | Nom. Velocity of Prop. |
|-----------|-------------|-----------------|------------------------|
| 100 MHz | 538 ns/100m | 45 ns/100m | 65% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACR [dB] | Min. PSACR [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Min. TCL [dB] | Min. ELTCTL [dB] |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|---------------|------------------|
| 1 | 2.0 dB/100m | 74.3 | 72.3 | 72.3 | 70.3 | 67.8 | 64.8 | 20.0 | 40.0 | 35.0 |
| 4 | 3.8 dB/100m | 65.3 | 63.3 | 61.5 | 59.5 | 55.8 | 52.8 | 23.0 | 40.0 | 23.0 |
| 8 | 5.3 dB/100m | 60.8 | 58.8 | 55.5 | 54.5 | 49.7 | 46.7 | 24.5 | 40.0 | 16.9 |
| 10 | 6.0 dB/100m | 59.3 | 57.3 | 53.3 | 50.3 | 47.8 | 44.8 | 25.0 | 40.0 | 15.0 |
| 16 | 7.6 dB/100m | 56.2 | 54.2 | 48.7 | 46.7 | 43.7 | 40.7 | 25.0 | 38.0 | 10.9 |
| 20 | 8.5 dB/100m | 54.8 | 52.8 | 46.3 | 44.3 | 41.8 | 38.8 | 25.0 | 37.0 | 9.0 |
| 25 | 9.5 dB/100m | 53.3 | 51.3 | 43.8 | 41.8 | 39.8 | 36.8 | 24.3 | 36.0 | 7.0 |
| 31.25 | 10.7 dB/100m | 51.9 | 49.9 | 41.4 | 39.4 | 37.9 | 34.9 | 23.6 | 35.1 | |

| | | | | | | | | | |
|------|--------------|------|------|------|------|------|------|------|------|
| 62.5 | 15.4 dB/100m | 47.4 | 45.4 | 32.0 | 30.0 | 31.9 | 28.9 | 21.5 | 32.0 |
| 100 | 19.8 dB/100m | 44.3 | 42.3 | 24.5 | 22.5 | 27.8 | 24.8 | 20.1 | 30.0 |
| 155 | 25.2 dB/100m | 41.4 | 39.4 | 16.3 | 14.3 | 24.0 | 21.0 | 18.8 | 27.0 |
| 200 | 29.0 dB/100m | 39.8 | 37.8 | 10.8 | 8.8 | 21.8 | 18.8 | 18.0 | 27.0 |
| 250 | 32.8 dB/100m | 38.3 | 36.3 | | | 19.8 | 16.8 | 17.3 | |

Mechanical Characteristics

Temperature

| |
|------------------|
| Operating |
| -20°C To +75°C |

Bend Radius

| |
|--------------------------|
| Installation Min. |
| 56.8 mm (2.24 in) |

| | |
|--------------------|--------------------------|
| Max. Pull Tension: | 110 N (25 lbf) |
| Bulk Cable Weight: | 49 kg/km (33 lbs/1000ft) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Indoor |
| Flammability / Reaction to Fire: | UL1685 |
| NEC / UL Compliance: | CM |
| Data Category: | Category 6 |
| TIA/EIA Compliance: | ANSI/TIA 568.2-D |
| ISO/IEC Compliance: | ISO/IEC 11801-1, IEC 61156-5 |
| European Directive Compliance: | EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

Product Notes

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| Notes: | Jacket sequentially marked |
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History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.45 Revision Date: 09-07-2025 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Putup Type | Length |
|---------------|--------|------------|--------|
| 7815A 006305M | Blue | Reel | 305 m |
| 7815A 005305M | Green | Reel | 305 m |
| 7815A 008305M | Grey | Reel | 305 m |
| 7815A 003305M | Orange | Reel | 305 m |
| 7815A 002305M | Red | Reel | 305 m |
| 7815A 009305M | White | Reel | 305 m |
| 7815A 004305M | Yellow | Reel | 305 m |

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