



Ethernet Cable, Cat6A, Plenum, F/UTP, 304.8 m, 1000 ft.

# RoHS Compliant

#### **FEATURES**

- CMP
- F/UTP
- 23 AWG
- Solid Copper

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Stock No.: CAT6A-3041P-FTP-B

**Product Description** 

# **Key Features**

- Bandwidth tested up to 750 MHz In compliance with ANSI/TIA 568.2-E Supports Power over Ethernet: PoE/PoE+/
- Suitable for 1 Gigabit and 10 Gigabt
  RoHS-3 Compliant
  Ethernet up to 328 ft
  Foe++ (IEEE 802.3af/at/bt) 4PPoE up to 100W
  Sequential footage markings every 2ft

#### **General Specifications**

| Attribute                   | Value                          |
|-----------------------------|--------------------------------|
| Terminated/Unterminated     | Unterminated                   |
| Connector Type              | RJ45                           |
| Cable Type                  | Ethernet                       |
| Length                      | 304.8m / 1000ft                |
| Gauge                       | 23 AWG                         |
| Conductor                   | Bare Copper                    |
| Shield/Unshielded           | Shielded                       |
| Voltage Rating              | 300V                           |
| 1.0 - 550MHz Impedance (Ω)  | 100 ± 15                       |
| Maximum Operating Frequency | 750MHz                         |
| Operating & Storage Temp.   | -40°C to 75°C   -40°F to 167°F |
| Installation Temp.          | -20°C to 75°C   -4°F to 167°F  |
| Jacket Color                | Green                          |





#### **Product Drawing**

## **Technical Data**

| Insulation                           | FEP     |
|--------------------------------------|---------|
| Average Thickness (mm)               | 0.268   |
| Min Point Thickness (mm)             | 0.248   |
| Conductor Insulation Dia. (±0.02mm)  | 1.12    |
| Twisted Pair Dia. (±0.02mm)          | 2.24    |
| Ripcord                              | Kevlar  |
| Spline                               | Present |
| Polyethylene Tape                    | Present |
| Shielding                            | F/UTP   |
| Drain Wire - Solid Tinned Copper(mm) | 0.40    |

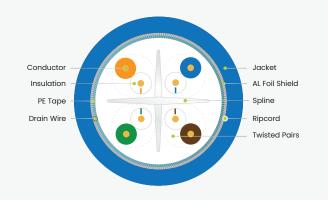
| Conductor                | Solid Bare Copper |
|--------------------------|-------------------|
| Size                     | 23AWG             |
| Conductor Dia. (±0.05mm) | 0.585             |

#### **Standards Reference**

UL-444/ cETLus ANSI/TIA 568.2-E ISO/IEC 11801

| Color of Pairs |                      |  |
|----------------|----------------------|--|
| Pair 1         | Blue- White/Blue     |  |
| Pair 2         | Orange- White/Orange |  |
| Pair 3         | Green- White/Green   |  |
| Pair 4         | Brown- White/Brown   |  |

| Cable Jacket              | FR-PVC |
|---------------------------|--------|
| Average Thickness (mm)    | 0.55   |
| Min. Point Thickness (mm) | 0.50   |
| Outer Diameter (+0.2mm)   | 7 60   |



# **Electrical Characteristics**

| PoE Certification                            | PoE/PoE+/PoE++ 4PPoE |
|--|----------------------|
| Maximum PoE Wattage                          | 100W                 |
| PoE Application Compatibility                | 802.3af/at/bt Type 4 |
| TIA 568-2.D Cat6A Permanent Link +PoE        | CERTIFIED            |
| Maximum Application Speed @ 295ft            | 10GBASE-T            |
| Nominal Velocity of Propagation (NVP)        | 70                   |
| Maximum Operating Voltage                    | 300V                 |
| 1.0 - 750MHz Impedance ( $\Omega$ )          | 100 ± 15             |
| Maximum Operating Frequency                  | 750MHz               |
| 1.0 - 750MHz Delay Skew (ns/100m)            | ≤45                  |
| Pair-to-Ground Capacitance Unbalance (pF/km) | ≤3300                |
| Max. Conductor DC Resistance 20°C (Ω/km)     | 68                   |







# **Mechanical & Environmental Operating Parameters**

| Test Object                    | Jacket        | Aging Condition (°C x hrs)       | 100 x 168                |
|--------------------------------|---------------|----------------------------------|--------------------------|
| Test Material                  | FR-PVC        | After Tensile Strength (Mpa)     | ≥85% of unaged           |
| Before- Tensile Strength (Mpa) | ≥13.8         | Aging Condition - Elongation (%) | ≥50% of unaged           |
| Aging- Elongation (%)          | ≥100          | Cold Bend(-20 $\pm$ 2°C x 4hrs)  | No Crack                 |
| Min. Bend Radius               | 5.25cm/2.00in | Operating & Storage Temp40°C     | to 75°C   -40°F to 167°F |
| Max. Installation Tension      | 110N/25lb-ft  | Installation Temp20°C            | to 75°C   -4°F to 167°F  |

### **Print Legend**

EASE Cat6A FTP CMP 75°C 4PR 23AWG c(ETL)us ANSI/TIA 568.2-E 750MHz RoHS-3 \*\*\*\*FT

Dimensions: Millimeters (Inches)

#### **Part Number Table**

| Part Number       | Description   |
|-------------------|---|
| CAT6A-3041P-FTP-B | Ethernet Cable, Cat6A, Plenum, F/UTP, 304.8 m, 1000 ft. |

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#### **Test Summary: PASS**

