



Cat6 23AWG OUTDOOR WATERPROOF UV RESISTENT Unshielded

23AWG • 4 Twisted Pairs • UV RESISTENT U/UTP • 550MHz • Solid Copper



Lengths Available

- 1000ft



Key Features

- Bandwidth tested up to 550 MHz
- Suitable for 1 Gigabit and 5 Gigabit Ethernet up to 328 ft
- In compliance with ANSI/TIA 568.2-D
- RoHS-3 Compliant
- Easily identified color striped pairs
- Supports Power over Ethernet: PoE/PoE+/PoE++ (IEEE 802.3af/at/bt) 4PPoE up to 90W
- Sequential footage markings every 2ft

Technical Data

| Insulation | PE |
|--|-------------|
| Average Thickness (mm) | 0.21 |
| Min Point Thickness (mm) | 0.193 |
| Conductor Insulation Dia. (±0.02mm) | 0.96 |
| Twisted Pair Dia. (±0.02mm) | 1.92 |
| Ripcord | Nylon |
| Spline | Present |
| Polyethylene Tape | Not Present |
| Shielding | U/UTP |

| Conductor | Solid Bare Copper |
|--------------------------|-------------------|
| Size | 23AWG |
| Conductor Dia. (±0.05mm) | 0.54 |

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

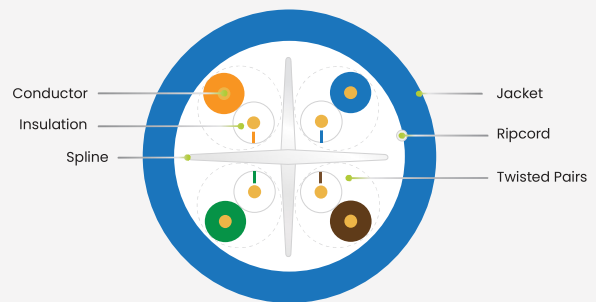
| Cable Jacket | PE |
|--------------------------------|-------------|
| Average Thickness (mm) | 0.60 |
| Min. Point Thickness (mm) | 0.55 |
| Outer Diameter (±0.2mm) | 5.90 |

Standards Reference

UL-444 /
cETLus

ANSI/TIA
568-2.D

ISO/IEC
11801



Print Legend

ACONKAWA CAT6 UTP 23AWG 4PRS OUTDOOR WATERPROOF UV RESISTENT 550MHZ VERIFIED TO ANSI/TIA 568.2-D xxxxFT



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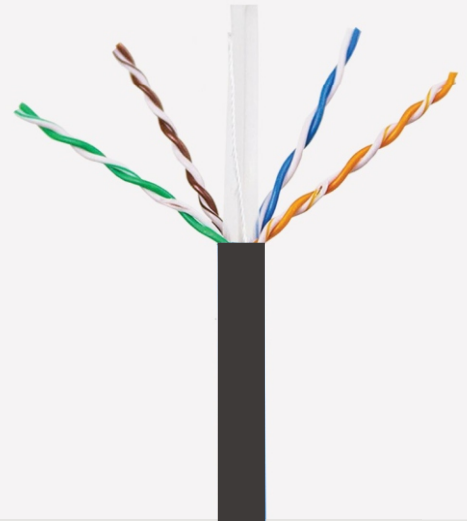
Lengths Available

• 1000ft



Electrical Characteristics

| | |
|---|----------------------|
| PoE Certification | PoE/PoE+/PoE++ 4PPoE |
| Maximum PoE Wattage | 90W |
| PoE Application Compatibility | 802.3af/at/bt Type 4 |
| TIA 568-2.D Cat6 Permanent Link +PoE | CERTIFIED |
| Maximum Application Speed @ 295ft | 5GBASE-T |
| Nominal Velocity of Propagation (NVP) | 68.2 |
| Maximum Operating Voltage | 300V |
| 1.0 - 550MHz Impedance (Ω) | 100 \pm 15 |
| Maximum Operating Frequency | 550MHz |
| 1.0 - 550MHz Delay Skew (ns/100m) | \leq 45 |
| Pair-to-Ground Capacitance Unbalance (pF/km) | \leq 3300 |
| Max. Conductor DC Resistance 20°C (Ω /km) | 72.2 |



Mechanical & Environmental Operating Parameters

| | | | |
|--------------------------------|--------------|---|--|
| Test Object | Jacket | Aging Condition ($^{\circ}$ C x hrs) | 100 x 168 |
| Test Material | PE | After Tensile Strength (Mpa) | \geq 85% of unaged |
| Before- Tensile Strength (Mpa) | \geq 13.8 | Aging Condition - Elongation (%) | \geq 50% of unaged |
| Aging- Elongation (%) | \geq 100 | Cold Bend ($-20 \pm 2^{\circ}$ C x 4hrs) | No Crack |
| Min. Bend Radius | 2.5cm/1.0in | Operating & Storage Temp. | -40° C to 75° C -40° F to 167° F |
| Max. Installation Tension | 110N/25lb-ft | Installation Temp. | -20° C to 75° C -4° F to 167° F |