

Cat6 Ethernet Cables

Technical data pages by Spectrum

Cat6 Copper Cable, 1000ft (305m), 23AWG, Solid, 250MHz, Unshielded (UTP), PVC, with Reel (White)



Part Number: 021311



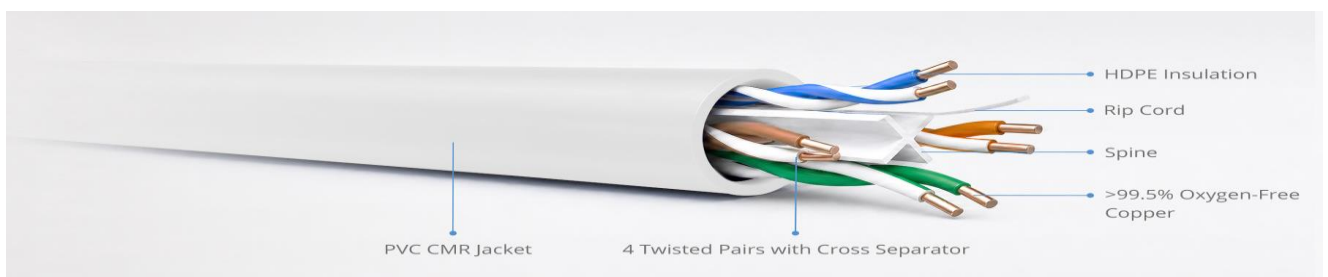
The next step up from standard Cat5e cable, Cat6 is a "4 twisted pairs" network cable used for 1000Base-T Ethernet applications up to 250MHz, can also provide at speed of 10G rate with 30-40m transmission distance. This cable is perfect to all your advanced networking installations.

Features and Benefits

- CMR Riser Rated with > 99.95% Oxygen-free Copper Solid Conductors Deliver Stable Performance
- Up to 250MHz with 1G/10G-T Speed, Support PoE/PoE+/PoE++ (IEEE 802.3af/at/bt)
- 100% Pass Fluke Channel & Permanent Link Test, Ensuring Data Transmission, Reducing Data Leakage and Network Attack Risks
- Fully Compliant with UL® and ANSI/TIA-568.2-D Fire and Safety Standards
- Reel Ensures Proper Performance and Provides Quick Installation
- Marked Every 1m (3.28ft) on Cable Makes Measuring Easy
- Multiple Colors Lengths to Help Organize and Simplify Complicated Cable Runs

Application

- Use in between Floors, In-Wall, and Non-plenum Spaces
- Rated for any 10/100/1000Base-T Ethernet
- Connect with Switches, Routers, Computers, IP Cameras, Xbox, Apple TV and Much More



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Technical Descriptions

Physical Characteristics

Operating Temp. Range	-20 to +75°C (-4 to 167°F)
Max. Operating Voltage (v)	80
Reference Standard	ISO/IEC 11801, ANSI/TIA-568.2-D

Conductor

Conductor Type	Solid Bare Copper
Wire Gauge (AWG)	23
Conductor Nom.O.D. (mm)	0.565 ± 0.005
Conductor Qty.	4 Twisted Pairs

Insulation

Insulation Material	HDPE
Insulation Diameter (mm)	0.99 ± 0.05
Core Color	A. White - Blue, Blue B. White - Orange, Orange C. White - Green, Green D. White - Brown, Brown

Jacket

Material	PVC (Complies RoHS), CMP
External O.D. (mm)	5.9 ± 0.4
Thickness (mm)	0.43 ± 0.05
Color	White
Surface	Clean, Frap, Satiation
Rip Cord	Yes

Electrical Characteristics

1.0-250.0MHz Impedance (ohms)	100 ± 15
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Capacitance Unbalance (pF/100m)	≤160
Max. Conductor DC Resistance @20°C (ohms/100m)	9.38
Resistance Unbalance (%)	≤5.0

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Mechanical Characteristics

Before Aging Tensile Strength (Mpa)	≥13.5
Before Aging Elongation (%)	≥150
Aging Period (°C×hrs)	100°C×24h×7d
After Aging Tensile Strength (Mpa)	≥12.5
After Aging Elongation (%)	≥125
Cold Bend (-20±2°C×4h)	8 × Cable O.D., No Visible Cracks

Packing

Packing Type	1000ft (305m) Pull Box
Carton Dimension (HxWxD)	350×330×265 MM

Chemical Characteristics

RoHS

Free of hazardous substances according to RoHS 2002/95/ EG

