

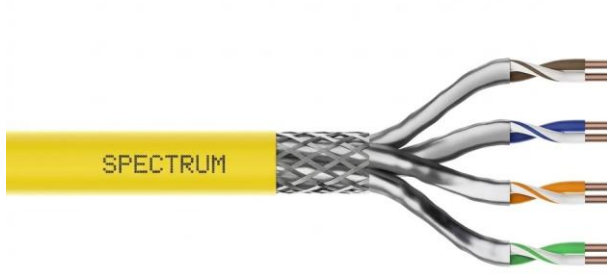
Cat7 Ethernet Cables

Technical data pages by Spectrum

Cat7 Copper Bulk Cable, 1640ft (500m), 23AWG, Solid, 1000MHz, Shielded (S/FTP), LSZH CMR, with Reel (Yalow)



Part Number: 021315



Cat7 has been designed as a standard for 10 Gigabit Ethernet over 100m of copper cabling. It has a higher bandwidth of up to 1000MHz and backwards compatible with traditional Cat5e, Cat6 and Cat6a Ethernet. This cable offers extensive shielding to reduce signal attenuation and is relatively stiff in comparison to previous generations of cabling. It is great for datacenters, server rooms, and telecommunications rooms

Features and Benefits

- Solid Bare Copper Better than CCA
- 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 1G/10GBase-T Ethernet
- Connect with Switches, Routers, Computers, IP Cameras, Xbox, Apple TV and Much More

CAT6 CABLES

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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

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)	1.330 ± 0.05
Core Color	A. White - Blue, Blue B. White - Orange, Orange C. White - Green, Green D. White - Brown, Brown

Jacket

Material	LSZH
External O.D. (mm)	7.6 ± 0.5
Thickness (mm)	0.55 ± 0.05
Color	yellow
Surface	Clean, Frap, Satiation
Rip Cord	Yes

Electrical Characteristics

1.0-100.0MHz Impedance (ohms)	100 ± 15
1.0-250.0MHz Impedance (ohms)	100 ± 18
250-600.0MHz Impedance (ohms)	100 ± 25
1.0-600.0MHz Delay Skew (ns/100m)	≤25
Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance @20°C (ohms/100m)	9.38
Resistance Unbalance (%)	≤2.0

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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	1640ft (500m) Roll
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Chemical Characteristics

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