

### Cat5e Ethernet Round Traveling Cable



Traditional Cat5e UTP cannot be used in a North American traveling cable due to the size of its solid copper conductor. However, Draka created specially-insulated 20 AWG stranded and shielded tinned copper conductors that provide Cat5e performance. These conductors can be built into certain cables and are terminated at each end with a Phoenix module that interfaces with a standard RJ-45 jack.

These unique conductors transmit up to 1 Gb/s signals over 328 ft • 100 meters, delivering Cat5e performance for a host of Ethernet devices such as video boards, cameras and emergency phones that can be quickly connected with standard RJ-45 jacks. Because of the shielding over the individual pairs, performance of up to 1 Gb/s is achieved.

Compact Phoenix modules (see picture above) are required at each end of the cable for proper Cat5e termination.

These cables are available at MEGA and can be purchased cut-to-length.

#### APPROVALS

NEC Type ETT standards and meets ANSI/TIA/EIA-568-B performance criteria

#### FEATURES

- Emulates a 1 Gb/s Cat5e cable in connectivity and performance
- Built to stand the constant travel and flexing found in elevators
- Phoenix connectors at each end adapt to standard RJ-45 jacks for connection to any IP device
- Power over Ethernet (PoE) can be accommodated
- Ideal for low- to mid-rise buildings in new installations or modernization projects

**Note:** Product photos are for reference only.

### Cat5e Traveling Cable & Accessories

MEGA Stock Code	Description
CWS20SP-CAT5e	1 CAT5e + 6#20SHPR
CSX54SP-CAT5e	1 CAT5E + 5#14 + 30#18 + 5#20SHPR + 1CX
CAT5E-KIT	Install Kit , Cat5e Traveling Cable, One required for one length
ELH36-060	Round Cable Stripper for cable dia. 0.2 to 1.5" One replacement blade included.
48-22-3074	Ratcheting Pass-Through Connector Crimper & Stripper

### Cat5e Performance

Specification	Performance
Transmission	100BASE-TX (100 mb/s)
Speeds	1000BASE-T (1000 mb/s)
Operating Temperature	+14° to +140° F
Signal Protection	Individual pair shields protect against signal loss and crosstalk
Operating Distance*	Tested/verified to TIA/EIA-568-B standard length of 328 ft
Standards	Meets the performance criteria of ANSI/TIA/EIA-568 Category 5e

**Note:** \* Cat5e transmission performance based on 100m standard  
For extended transmission distances, MEGA can offer fiber optic solutions

### Cat6a Ethernet Round Traveling Cable



#### ENHANCED PERFORMANCE

- Higher speed (up to 10 Gb/S)
- Higher Bandwidth for better data transmission
- Reduced latency for real-time communication

#### IMPROVED RELIABILITY

- Shielding for reduced EMI
- Improved cross talk performance
- Durable, flexible construction
- Stable performance

#### STANDARDIZED SOLUTION

- TIA/EIA Telecommunications Standards compliant
- Compatible with existing network cables and connectors

#### APPROVALS

Meets NEC Type ETT standards and  
ANSI/TIA/EIA-568-B performance criteria UL approved

MEGA now offers Draka's Cat6a traveling data cable.

The new Cat6a traveling cable complies with the latest National Electrical Code revision that reduces the minimum traveling cable conductor size to 24AWG for certain communications circuits.

These Cat6a cables can be terminated with standard RJ-45 jacks and plugs for direct connection to Ethernet networks to support a host of devices such as video boards, cameras, and emergency phones. Cat6a performance is available in round and flat traveling cable configurations

**Note:** Product photos are for reference only.



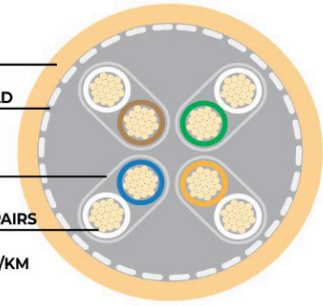
LSHF/FIRE RETARDANT  
JACKET 0.3 IN · 7.62 MM Ø

TINNED COPPER BRAID SHIELD

PLASTIC/FOIL PAIR SHIELD  
OVER PE INSULATION

24 AWG COPPERSTRANDED PAIRS

WEIGHT: 42 LBS/KFT · 62.5 KG/KM



### Cat6a Traveling Cable & Accessories

MEGA Stock Code	Description
CWS-20SP-CAT6a	1 CAT6A + 6#20SHPR
ELH98-03-88	CAT6A Traveler Connector 2 required for one length
ELH36-060	Round Cable Stripper for cable dia. 0.2 to 1.5" One replacement blade included
48-22-3074	Ratcheting Pass-Through Connector Crimper & Stripper

### Cat6a Electrical Properties

Specification	Property
DC Loop Resistance	≤ 48 Ω/kft
Resistance Unbalance	≤ 2%
Insulation Resistance (500V)	≥ 1500 MΩ/kft
Capacitance	Nom. 13.1 nF/kft @ at 800 Hz
Capacitance Unbalance (Pair to ground)	≤ 366 pF/kft
Fitted impedance	100 ± 5Ω @ 100 MHz
Nominal velocity of propagation (NVP)	75%
Delay Skew	≤ 7.6 nsec/100 ft
Transfer impedance	≤ 3 mΩ /ft @ 1 MHz ≤ 4.6 mΩ /ft @ 10 MHz ≤ 9.1 mΩ /ft @ 30 MHz

### Cat6a Performance

Specification	Cat6a Performance	Performance Improvement	Cat5e Performance
Transmission Speeds	10GBASE-T (10 Gb/s)	10x greater	100BASE-TX (100 mb/s) and 1000 BASE-TX (1000 mb/s)
Bandwidth	500 MHz	5x greater	100 MHz
Operating Temperature	-4° to +158° · 20° to +70°C	36°F · 20°C operating range	+14° to +140°F · -10° to +60°C
Signal Protection	Individual pair shields protect against signal loss and crosstalk		Same
Operating Distance	Tested/verified to TIA/EIA-568-B standard length of 328 ft · 100m		Same
Standards	Meets the performance criteria of ANSI/TIA/EIA-568 Category 6a*		Meets the performance criteria of ANSI/TIA/EIA-568 Category 5e

### Compared to Cat5e

Note: Product photos are for reference only.