# Cat 6A Ethernet Cable

- 500 MHz Performance Speeds
- Ideal for 100BASE-TX and 10GBASE-T (10-Gigabit Ethernet)
- Rated for More than 10 Million Flexing Cycles
- Exceptional EMI/RFI Suppression
- Rated for Temperatures from -65°C to +165°C

Cicoil's Cat 6A Ethernet Cable meets the increased demands of professionals who need a rugged, flexible and high performance Ethernet cable solution. Cicoil's patented extrusion process allows individually shielded, twisted pairs to be placed in a flexible flat profile for high speed data transmission, with exceptional EMI/RFI suppression.  Cicoil's Cat 6A Flat Cable delivers the ultimate in electrical performance, extreme ruggedness, and a Flex rating of over 10 Million cycles.

**UL** MEETS 94V-0    CSA    CE    **RoHS** COMPLIANT    **REACH** COMPLIANT    **FAA** FLAME TESTED

**Applications**
PLC and DCS Automation Networks, Field Level Networking and Ethernet Networks

## Cable

| Amp Rating[1] | Conductor Gauge | No. of Pairs | Dimensions [inches] | | Part Number |
|---|---|---|---|---|---|
| | | | Width | Height | |
| 1.4 | 28 AWG | 4 | 0.52 | 0.15 | DC-601 |

**Note**

1.  Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C).  Amp rating decreases as temperature increases.

## Dimensions

SHIELDED PAIRS
0.15
0.52
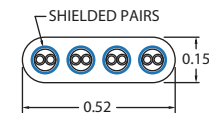
## Cable Assemblies

| Cable Length (feet) | Part Number Addition |
|---|---|
| 3 | -CA003 |
| 6 | -CA006 |
| 12 | -CA012 |

Please contact Cicoil for other connectors and length options.
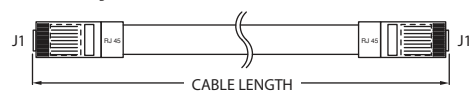
**Notes**

1.  Append onto base cable Part Number for complete assembly.
    Example: DC-601-CA003

2.  Connector ratings may differ from cable ratings; refer to manufacturer specifications.

### Assembly Dimensions

J1    RJ 45          RJ 45    J1
CABLE LENGTH

**Connectors**
- Signal (J1): RJ45

## Wiring Diagram

4    5
3          6
2          7
1          8

POSITION 3 & 6
POSITION 1 & 2
POSITION 7 & 8
POSITION 4 & 5

## Cable Specifications

*All engineering values are nominal and subject to change.*

### Mechanical

**Conductors:** Ultra flexible, finely stranded, tinned copper
**Shielding:** Ultra flexible, braided shields, with 90% nominal coverage
**Minimum Bend Radius:**
- 6x cable height for intermediate flex
- 10x cable height for continuous flex
**Flex Life:** 10,000,000 cycles nominal
**Outer Jacket Durometer Rating:** 65 (Shore A)

### Environmental

**Temperature Rating:** -65°C to +165°C
**Moisture Rating:** Submersible, Salt Water Resistant
**Clean Room Rating:** Class 1, Zero Particulates
**Extreme Environments:** Sunlight, UV Light, Alcohol, Chemical and Oil Resistant

### Electrical

**Outer Jacket Dielectric Strength:** 450 volts/mil (17.7 kv/mm)

*See Electrical Rating Chart on Page 47*

## Options

Data & Video