



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Ethernet Cable

**NEED CUSTOMS?**  
See Page 25

## Cat 5e

- Ideal for Motion and Harsh Environment Applications
- Exceeds ANSI/TIA/EIA-568-A and TIA/EIA-568-B Cat 5e Specs
- Supporting Data Rates to 1 Gb/second

## Cat 6

- Meets or Exceeds Cat 6 - EIA/TIA-568-C/ 11801
- Provide Stringent Crosstalk/Noise Suppression
- Flat Cable Delivers Highest Data Speeds

Cicoil's ethernet cables meet the increased demand of professionals who need a rugged, reliable, portable, flexible and harsh environment ready network cable solution. Cicoil's patented extrusion process allows individually shielded wires to be placed in a highly flexible flat profile for clear, high speed data transmission.



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

## Cable

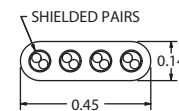
| Type   | Amp Rating <sup>1</sup> | Conductor Gauge | No. of Pairs | Dimensions [inches] |        | Part Number |
|--------|-------------------------|-----------------|--------------|---------------------|--------|-------------|
|        |                         |                 |              | Width               | Height |             |
| Cat 5e | 3                       | 30 AWG          | 4            | 0.45                | 0.14   | DC-500      |
| Cat 6  | 7                       | 24 AWG          | 4            | 0.71                | 0.20   | DC-600      |

### Note

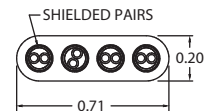
1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.

## Dimensions

### Cat 5e



### Cat 6



## Cable Assemblies



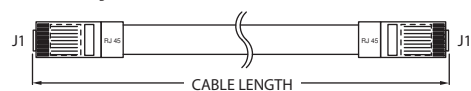
| Cable Length (feet) | Part Number Addition |
|---------------------|----------------------|
| 3                   | -CA003               |
| 6                   | -CA006               |
| 12                  | -CA012               |

### Notes

1. Append onto base cable Part Number for complete assembly. Example: DC-500-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Please contact Cicoil for other connectors and length options.

## Assembly Dimensions



### Connectors

- Signal (J1): RJ45

## Cable Specifications

All engineering values are nominal and subject to change.

| Mechanical   | Environmental  |
|--|--|
| <b>Conductors:</b> Ultra flexible, finely stranded, tinned copper            | <b>Temperature Rating:</b> -65°C to +165°C   |
| <b>Shielding:</b> Ultra flexible, braided shields, with 90% nominal coverage | <b>Moisture Rating:</b> Submersible, Salt Water Resistant                            |
| <b>Minimum Bend Radius:</b>  | <b>Clean Room Rating:</b> Class 1, Zero Particulates                                 |
| - 6x cable height for intermediate flex                                      | <b>Extreme Environments:</b> Sunlight, UV Light, Alcohol, Chemical and Oil Resistant |
| - 10x cable height for continuous flex                                       | <b>Electrical</b>  |
| <b>Flex Life:</b> 10,000,000 cycles nominal                                  | <b>Outer Jacket Dielectric Strength:</b> 450 volts/mil (17.7 kv/mm)                  |
| <b>Outer Jacket Durometer Rating:</b> 65 (Shore A)                           | See Electrical Rating Chart on Page 47   |

## Options

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Data & Video