

# 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

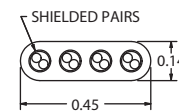
Type	Amp Rating <sup>1</sup>	Conductor Gauge	No. of Pairs	Dimensions [inches]		Part Number
				Width	Height	
Cat 5e	3	30 AWG	4	0.45	0.14	DC-500
Cat 6	7	24 AWG	4	0.71	0.20	DC-600

### Note

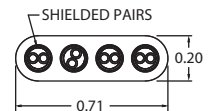
1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.

## Dimensions

### Cat 5e



### Cat 6



## Cable Assemblies



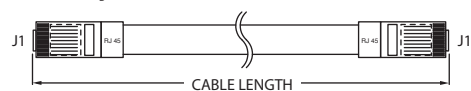
Cable Length (feet)	Part Number Addition
3	-CA003
6	-CA006
12	-CA012

### 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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