

# Cat 6A Ethernet Cable

**NEED CUSTOMS?**  
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- 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.



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

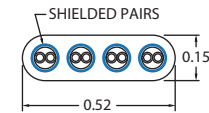
## Cable

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

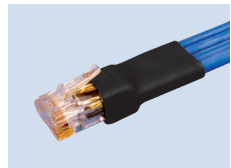
### Note

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



## Cable Assemblies



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

### Notes

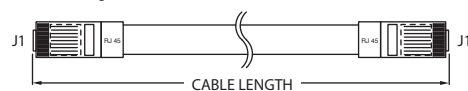
1. Append onto base cable Part Number for complete assembly. Example: DC-601-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Please contact Cicoil for other connectors and length options.

## Wiring Diagram



## 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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