Ethernet Cable

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

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.

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

Data & Video

Cable

Amp Rating[1]	No. of Pairs	Conductor Gauge	Cross-Section Profile	Dimensions [inches]			Part Number
				Width	Height	Diameter	
3	4	30 AWG	Flat	0.45	0.14	—	DC-500
		28 AWG	Round	—	—	0.21	DC-501

Note

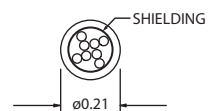1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.

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-500-CA003

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

Dimensions

Flat Section

SHIELDED PAIRS
0.14
0.45

Round Section

SHIELDING
ø0.21
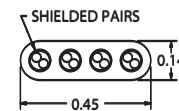
Color Code – DC-501
a. BRN/WHI with BRN stripe
b. ORG/WHI with ORG stripe
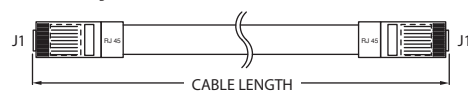c. GRN/WHI with GRN stripe
d. BLU/WHI with BLU stripe

Assembly Dimensions

J1   RJ 45   RJ 45   J1
CABLE LENGTH

Connectors
- Signal (J1): RJ45

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/diameter for intermediate flex
- 10x cable height/diameter 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