



# Caledonian

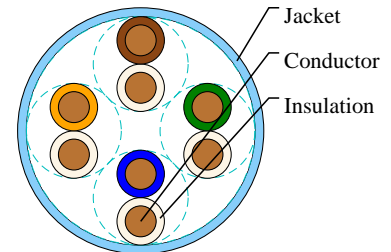
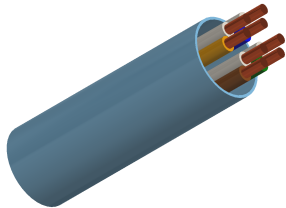
Data Cables

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

## Enhanced Category 5 Cables

Cat5e U/UTP



## APPLICATIONS

10Base-T, 100Base-T4, 100Base-TX, 100Base-VG-ANYLAN, 155Mbps ATM, 622Mbps ATM, 1000Base-T

## PRODUCT DESCRIPTION

Product Highlights:

Provide excellent bandwidth beyond 100 MHz

Meet the strict flame retardancy and environmental requirements in Europe and US

Different jacket materials available for choice

Guaranteed ACR Value > 0 dB @ 200 MHz

Special purpose cables can be offered according to customer request

Different jacket color options available for choice

## STANDARDS

ISO/IEC 11801

ANSI/TIA/EIA-568-B

## APPROVALS

E222756

## CABLE CONSTRUCTION

Conductor: 24AWG Solid Plain Copper

Insulation: PE

Jacket: PVC/LSZH

## PHYSICAL AND THERMAL PROPERTIES

Working Frequency: 1-100 MHz

Technical Parameters:

Characteristic Impedance:  $100 \pm 15 \Omega$  (1-100MHz)

Nominal Velocity of Propagation(NVP): CMX, CM, CMR,LSZH 69%; CMP 72%

Maximum Mutual Capacitance: 5.6nF/100m

Maximum Capacitance Unbalance: 330pF/100m

Maximum DC Resistance: 9.38 $\Omega$ /100m



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Maximum Resistance Unbalance: 5%

Maximum Propagation Delay Skew: 30ns/100m

Maximum Propagation Delay: 536ns/100m@100MHz

Minimum Bending radius: 10 x Overall Diameter

Voltage Rating: 80V rms

Maximum Pulling Load: 80N

Working Temperature: -5°C ~+50°C

Storage Temperature: -20°C ~+60°C

Flame Retardancy: UL 1581 (CM Jacket); UL 1666 (CMR Jacket); UL 910 (CMP Jacket); IEC 60332-1(FRPVC & LSZH Jacket); IEC 60332-1 and IEC 60332-3C (LSFROH Jacket)

## DIMENSION AND PARAMETERS

Cable Construction	No. of Pairs	Conductor Diameter	Nominal Diameter over Insulation	Approx. Overall Diameter
		mm	mm	mm
U/UTP	4	0.5/0.51	0.91	5.1