



# Caledonian

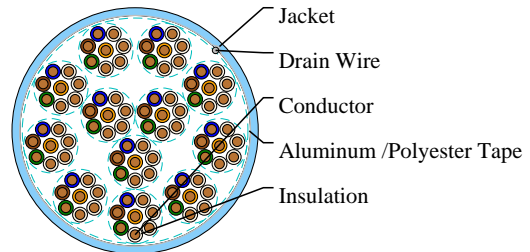
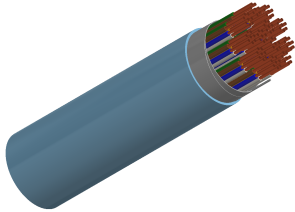
Data Cables

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

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## Enhanced Category 5 Multipair Cables

Cat5E F/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 200 MHz

Designed for use in data and voice backbone application

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

Easily identifiable color code for ease of installation

Different jacket options available for choice

## STANDARDS

ISO/IEC 11801

ANSI/TIA/EIA-568-B

## APPROVALS

E222756

## CABLE CONSTRUCTION

Conductor:24AWG Solid Plain Copper

Insulation:PE

Screen:Overall Aluminum Tape Screen

Drain Wire:1/0.5 mm

Assembly:50 Pairs

Jacket:PE/PVC/LSF/LSZH

## PHYSICAL AND THERMAL PROPERTIES

Working Frequency:1-100MHz

Technical Parameters:

Characteristic Impedance:  $100 \pm 15 \Omega$

Nominal Velocity of Propagation(NVP): 69%

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



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Maximum Mutual Capacitance: 5.6 nF/100m

Maximum Capacitance Unbalance: 330 pF/100m

Maximum Resistance Unbalance: 5%

Maximum Propagation Delay Skew: 30 ns/100m

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

Minimum Bending radius: 10 x Overall Diameter

Voltage Rating: 60V rms

Maximum Pulling load: 80N

Working Temperature: -20 °C ~ +60°C

Storage Temperature: -5°C ~ + 50°C

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

## DIMENSION AND PARAMETERS

Cable Construction	No. of Pairs	No./Nominal Diameter of Strands	Nominal Diameter over Insulation
		no./mm	mm
F/UTP	50	1/0.5	0.86