



Caledonian

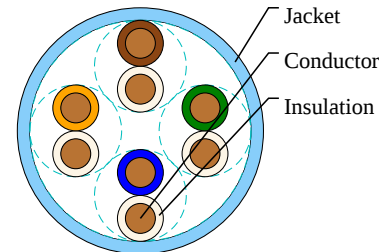
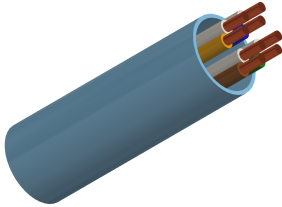
Data Cables

www.caledonian-cables.com

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Enhanced Category 6 Cables

Cat6 U/UTP



APPLICATIONS

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

PRODUCT DESCRIPTION

Product Highlights:

Provide excellent bandwidth beyond 250 MHz

Support 10 Gigabit Ethernet application

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

Different jacket materials available for choice

Guaranteed ACR Value > 0dB @ 250MHz

Special purpose cables can be offered according to customer request

Different jacket color options available for choice

STANDARDS

ISO/IEC 11801

EN50173

TIA / EIA 568-B

APPROVALS

E222756

CABLE CONSTRUCTION

Conductor: 23AWG Solid Plain Copper

Insulation: PE

Jacket: LSFROH

PHYSICAL AND THERMAL PROPERTIES

Working Frequency: 1-250MHz

Technical Parameters:

Characteristic Impedance: $100 \pm 15 \Omega$ (1-250MHz)

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

Maximum Mutual Capacitance: 5.6nF/100m



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Maximum Capacitance Unbalance: 330pF/100m

Maximum DC Resistance: 7.5Ω/100m

Maximum Resistance Unbalance: 3%

Maximum Propagation Delay Skew: 30ns/100m (1-125MHz)

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

Minimum Bending radius: 10 x Overall Diameter

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	Conductor Diameter	Nominal Diameter over Insulation	Approx. Overall Diameter
		mm	mm	mm
U/UTP	4	0.57/0.58	1.02	6.5