



Caledonian

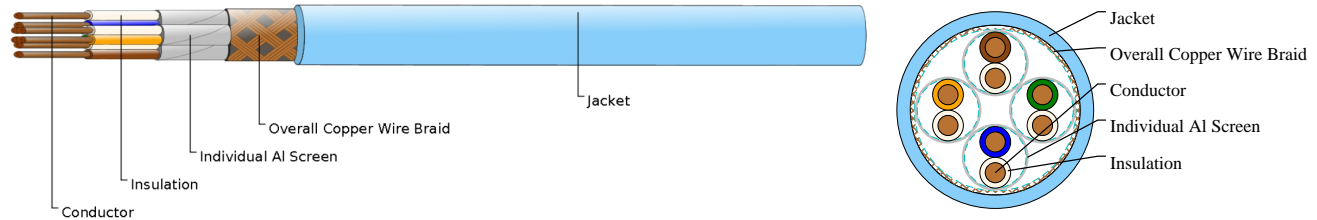
Data Cables

www.caledonian-cables.com

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Category 7 Cables

Cat7 S/FTP



APPLICATIONS

155MbpsATM, 622MbpsATM, 1000Base-T, 10GBase-T

PRODUCT DESCRIPTION

Product Highlights:

Provide excellent bandwidth beyond 600 MHz

Support 10 Gigabit Ethernet application

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

Different jacket materials available for choice

STANDARDS

IEC61156-5 CAT7

EN 50288-4-1

CABLE CONSTRUCTION

Conductor:23AWG Solid Plain Copper

Insulation:PE

Screen:Individual Aluminum Tape Screen & Overall Copper Wire Braid

Jacket:PVC/LSZH

PHYSICAL AND THERMAL PROPERTIES

Working Frequency:1-600MHz

Technical Parameters:

Characteristic Impedance: $100\pm 15\Omega$ (1-250MHz); $100\pm 22\Omega$ (100-500MHz)

Nominal Velocity of Propagation (NVP): 79%

Maximum Mutual Capacitance:5.6nF/100m

Maximum DC Resistance: 5.9 Ω /100m (22AWG); 7.5 Ω /100m (23AWG)

Maximum Resistance Unbalance:5%

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

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

Minimum Bending radius: 10 x Overall Diameter

Voltage Rating: 60V rms

Maximum Pulling load: 80N



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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 60332-1and 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
S/FTP	4	0.57/0.64	1.02	8.4/9.1