



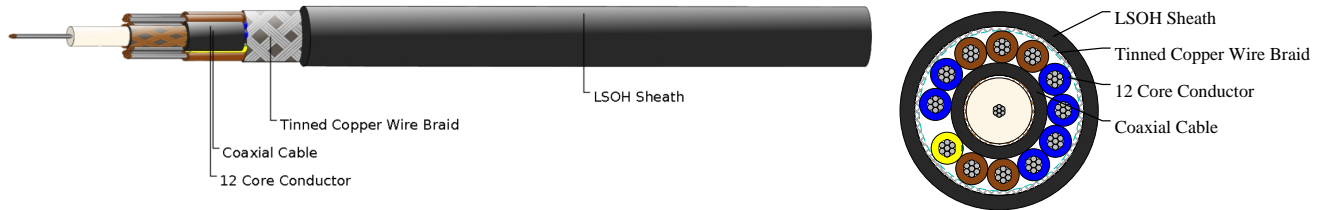
Caledonian

Composite Cables

www.caledonian-cables.com

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1C Coaxial Cable+12 Core Conductors TCWB PVC Sheathed Composite Cable



CABLE CONSTRUCTION

1x75Ohm Coaxial Cable

Conductor: 7/0.254mm stranded tinned copper wires
Insulation: Foamed polyethylene. Thickness is 1.46mm
Shield: Braid of bare copper wire. Coverage $\geq 95\%$
Sheath: PVC sheath. Nominal outer diameter: 5.28mm
Sheath Color: Black

12 Core Conductor

Conductor: 7/0.32mm Stranded tinned copper wires
Insulation: PVC material. Thickness is 0.4mm
Insulation Color: Blue, Brown and Green/Yellow

Element Assembly

Shield: Tinned copper wire braid, coverage 80%
Outer Sheath: LSZH, thickness 0.8mm, nominal outer diameter is 11.05mm
Sheath Color: Black

PHYSICAL AND THERMAL PROPERTIES

Electrical and Physical Properties @20°C:

Coaxial Cable

Nom. Impedance: 75Ohm
Nom. Capacitance Conductor to Shield: 56.7pF/m (17.3pF/ft)
Nom. Velocity of Propagation: 78%
Nom. Delay: 4.26ns/m (1.3ns/ft)
Nom. Conductor DC Resistance: 0.047 Ohm/m (14.4 Ohm/1000ft)
Nom. Inner Shield DC Resistance: 0.0084 Ohm/m (2.55 Ohm/1000ft)
Nom. Attenuation:
Freq. (MHz):0.5 Attenuation (dB/100m):0.8 Attenuation (dB/100ft):0.24
Freq. (MHz):1 Attenuation (dB/100m):1.1 Attenuation (dB/100ft):0.34
Freq. (MHz):5 Attenuation (dB/100m):2.4 Attenuation (dB/100ft):0.73
Freq. (MHz):10 Attenuation (dB/100m):3.4 Attenuation (dB/100ft):1.04
Freq. (MHz):100 Attenuation (dB/100m):10.6 Attenuation (dB/100ft):3.23



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Freq. (MHz):200 Attenuation (dB/100m):15.3 Attenuation (dB/100ft):4.67

Freq. (MHz):400 Attenuation (dB/100m):21.69 Attenuation (dB/100ft):6.62

12C Conductor

Max. Operating Voltage: 300V

Max. Operating Voltage (overall): 300V

Element Assembly

Operating Temperature Range: -30°C to +75°C

Min Bending Radius: 127mm