

This specification describes a 100-ohm four conductor, 24 AWG, shielded and jacketed cable.

CONDUCTOR

Material: Silver-coated High Strength Copper Alloy
Size: AWG 24
Construction: 19 x 36
OD(nom): .0233"
D.C. Resistance(nom): 26.8 ohms/1,000 ft @ 20°C

INSULATION

Material#1: Extruded Low Density PTFE
Material#2: Spiral-wrapped and fused PTFE Tape
OD(nom): .046"

CABLE

Four(4) of the above insulated conductors are cabled around (1) one PTFE filler and bound by a PTFE tape.

SHIELD #1(Flat)

Material: Tin-coated Copper Braid
Thickness(nom): .0015"
Coverage(min): 90%

SHIELD #2 (Round)

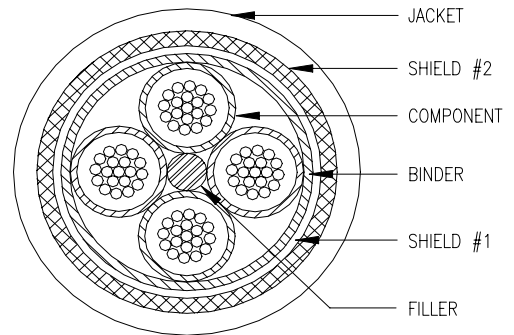
Material: Tin-coated Copper Braid
Size: AWG 38
Coverage(min): 85%
OD(nom): .140"

JACKET

Material: Extruded FEP
Wall Thickness(nom): .010"
OD: .160" ± .010"

COLOR

Blue, Red/Black, Blue/Black, Red
(Stripes are longitudinal.)
Jacket: Transparent Blue



CABLE CHARACTERISTICS

Differential Impedance: 100 ± 10 ohms
Velocity of Propagation(nom): 80%
Attenuation(max): 10 dB/100 ft @ 100 MHz
20 dB/100 ft @ 300 MHz
30 dB/100 ft @ 800 MHz
Capacitance(nom): 13 pF/ft
Temperature Range: -65°C to 150°C
Dielectric Withstand: 1.5 KV rms
Weight(nom): 24.0 lbs/1,000 ft

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TENSOLITE COMPANY
SUBSIDIARY OF CARLISLE CORPORATION
ST. AUGUSTINE, FL

Drawn By: Rachel Cole Date: 4/25/05

Approved By: Lira Stewart Date: 4/25/05

Description: 100-ohm Quad Cable

Tensolite P/N: 24443/C20714X-4(LD) CAGE Code: 92607

A	4/25/05	Changed attenuation at 800 MHz
IR	4/12/05	Initial Release