

This specification describes a 100-ohm four conductor, 24 AWG, shielded and jacketed cable designed to meet the requirements of Boeing part number S280W502-4.

CONDUCTOR

Material: Silver-coated High Strength Copper Alloy
 Plating Thickness(min): 40 μ inches
 Size: AWG 24
 Construction: 19 x 36
 OD: .0233" \pm .0003"
 D.C. Resistance(max): 26.8 ohms/1,000 ft @ 20°C

INSULATION

Material#1: Extruded Low Density PTFE
 Material#2: Spiral-wrapped and fused PTFE Tape
 Wall Thickness(nom): .010"
 OD: .046" \pm .003"

CABLE

Four(4) of the above insulated conductors and five(5) fillers are cabled together.
 Fillers: .022" Low Density PTFE
 Lay(nom): 1-1/4"
 OD(nom): .112"

SHIELD #1(Flat)

Material: Tin-coated Copper Braid
 Thickness(nom): .0015"
 Coverage(min): 92%
 OD(nom): .119"

SHIELD #2 (Round)

Material: Tin-coated Copper Braid
 Size: AWG 38
 Coverage(min): 85%
 OD: .139" \pm .015"

JACKET

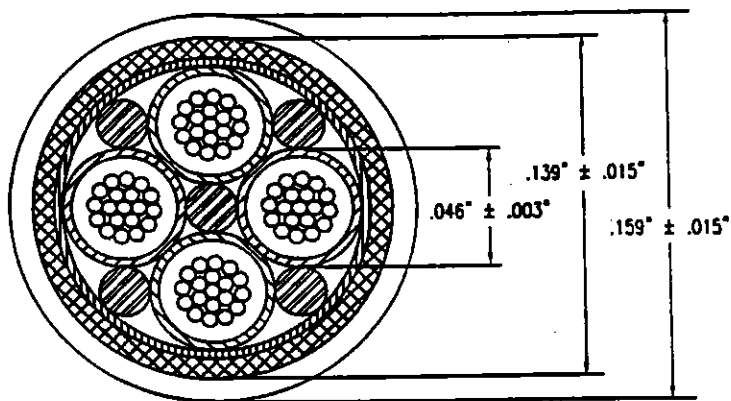
Material: Extruded FEP
 Wall Thickness(nom): .010"
 OD: .159" \pm .015"

COLOR

Blue, Red/Black, Blue/Black, Red
 Jacket: Transparent Blue

CABLE CHARACTERISTICS

Characteristic Impedance: 100 ohms \pm 5.5%
 (Measured Differentially)
 Velocity of Propagation(min): 75% ~
 Attenuation(max): 1.8 dB/75 ft @ 6 MHZ
 Capacitance(nom): 13 pF/ft
 Cross-Talk(max): -55 dB
 Dielectric Withstand: 1.5 KV rms
 Weight(nom): 22.0 lbs/1,000 ft
 (max): 25.3 lbs/1,000 ft



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