

This specification describes a 100-ohm, 24 AWG, balanced line cable designed to meet the requirements of Boeing part number S280W502-6.

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): .016"
 OD: .054" $\pm$.003"

CABLE

Two(2) of the above insulated conductors and two(2) fillers are cabled together.
 Fillers: .037" Low Density PTFE
 Lay(nom): 1-1/4"
 OD(nom): .095"

SHIELD (Flat)

Material: Tin-coated Copper Braid
 Thickness(nom): .0015"
 Coverage(min): 92%
 OD: .102" $\pm$.010"

JACKET

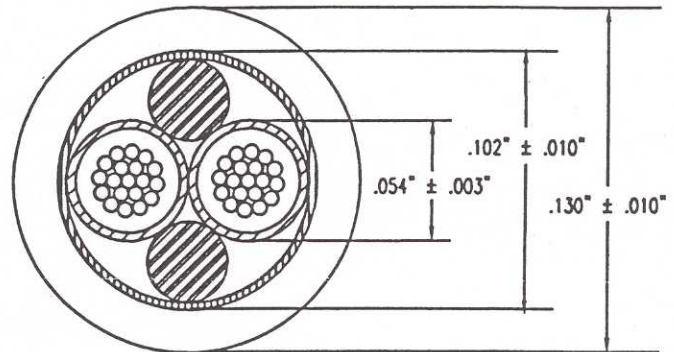
Material: Extruded FEP
 Wall Thickness(nom): .011"
 OD: .130" $\pm$.010"

COLOR

Blue, White
 Jacket: Transparent Blue

CABLE CHARACTERISTICS

Characteristic Impedance: 100 ohms $\pm$ 7%
 (Measured Differentially)
 Velocity of Propagation(min): 75%
 Attenuation(max): 1.8 dB/75 ft @ 6 MHz
 Capacitance(nom): 13 pF/ft
 Dielectric Withstand: 1.5 KV rms
 Weight(nom): 12.6 lbs/1,000 ft
 (max): 15.4 lbs/1,000 ft



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TENSOLITE COMPANY
 SUBSIDIARY OF CARLISLE CORPORATION
 ST. AUGUSTINE, FL

Drawn By: Chris Lowe *mu* Date: 3/22/00

Approved By: Lira Stewart *LS* Date: 3/22/00

Customer Spec
 S280W502-6

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 24463/9P026X-2(LD)

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 92607

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