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 μinches
Size: AWG 24
Construction: 19 x 36
OD: .0233" ± .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" ± .003"

CABLE

Two(2) of the above insulated conductors and two(2) fillers are cabled together.
Filiers: .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" ± .010"

JACKET

Material: Extruded FEP
Wall Thickness(nom): .011"
OD: .130" ± .010"

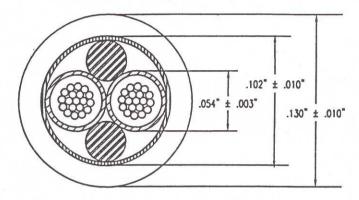## COLOR

Blue, White
Jacket: Transparent Blue

CABLE CHARACTERISTICS

Characteristic Impedance: 100 ohms ± 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

TENSOLITE COMPANY

SUBSIDIARY OF CARLISLE CORPORATION

ST. AUGUSTINE, FL

Drawn By: Chris Lowe	Date	3/22/00
Approved By: Lira Stewart	Date	3/22/00

Customer Spec
S280W502-6

Tensolite P/N	CAGE Code
24463/9P026X-2(LD)	92607

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