



## NOTES

1. Item: Double Shielded 100 Base-T Ethernet. Aerospace High Speed Copper. This Altered Item comprises a 100 Base-T Ethernet Cable with an additional braid woven around it.
- 2.0 Cable Specifications:
- 2.1 Conductor Size: 22 AWG
- 2.2 Construction: 19 X 34
- 2.3 Nom. Conductor Diameter: 0.0293 +/- 0.0003 Inches
- 2.4 D.C. Resistance: 16.1  $\Omega$ /1,000 ft. at 20 °C max.
- 2.5 Insulation Material: Extruded Low Density PTFE
- 2.6 Nom. Insulation Diameter: 0.070 Inches
- 2.7 Nom. Cable Diameter: 0.276 Inches
- 2.8 Nom. Cable Weight: 46.0 lbs./1000 ft. max.
- 2.4 Shield: 38 AWG, Tin-coated Copper Braid.
- 2.5 Impedance: 100  $\Omega$  +/- 10%
- 2.6 Nom. Capacitance: 13 pF/ft
- 2.7 Nom. Velocity of Propagation: 80%
- 2.8 Dielectric Withstanding: 1.5kV rms Conductor to Conductor, and Conductor to Shield.
- 2.9 Nom. Attenuation: 13 dB/100ft at 531 Mhz; 21 dB/100ft at 1062 Mhz.
- 2.10 Attenuation: 2dB/100m @ 1 Mhz; 22dB/100m @ 100 Mhz.
- 4.0 Marking: The Cable shall be marked with the manufacturer's identification, the manufacturer's part number, and other marking information normally supplied. Package marking will be acceptable in lieu of part marking.
- 5.0 Workmanship: The Cable shall be manufactured in such a manner as to be uniform in quality, and it shall be free from defects that may adversely affect the function of the part.

6.0 Lot Conformance Testing: The manufacturer shall be responsible for assuring compliance to all requirements of this drawing.

6.1 Test Methods: The unit shall be visually examined and mechanically measured to assure compliance to all requirements specified herein.

7.0 Cable Suggested Source of Supply

Tensolite  
St. Augustine, FL 32092

CAGE No.: 92607

Cable Manufacturer's Part No.: NF22P100

7.1 Identification of the Suggested Source of Supply hereon is not to be construed as a guarantee of present or continued availability as a source of supply for the item.

8.0 Tensolite Cable NF22P100 with an additional braid equivalent to AA59569, Rev. AR36T250 woven around it.

8.1 Procuring Activity Part No.: 19-2795752-1

8.2 Altered Cable Suggested Source of Supply

Hamilton Products, Inc.  
PO Box 1100  
Sherburne, NY 13460 USA  
Ph: 607-674-2030

PDM

APPLICATION		REV	DESCRIPTION	DATE	APPROVED
NEXT ASSY	USED ON				
	FCS				

**ALTERED ITEM DRAWING**

ALL SHEETS OF  THIS DRAWING MAINTAINED AT SAME REVISION	CONTRACT NO.		<b>GENERAL DYNAMICS</b>		
	700037		C4 Systems		
	DWN A Clearv		DATE 1/5/06		
	CHK J Rvcroft		DATE 3/29/06		
	APVD R. Thomas		DATE 3/30/06		
	SIZE A	CAGE 67032	DWG NO. 19-2795753	REV -	
	APVD R. Thomas	DATE 3/31/06	SCALE NONE	SOURCE MS WORD 7.0	SHEET 1 OF 3

NOTES

- 1. Item: Double Shielded Fibre Channel Cable. Lightweight Aerospace Grade Copper. This Altered Item comprises a Fibre Channel Cable with an additional braid woven around it.
- 2.0 Cable Specifications:
- 2.1 Conductor Size: 26 AWG
- 2.2 Conductor Material: Silver Coated Copper Alloy (SCCA)
- 2.3 Nom. Conductor Diameter: 0.0189 Inches
- 2.4 Insulation Material: PTFE
- 2.5 Nom. Insulation Diameter: 0.056 Inches
- 2.6 Nom. Cable Diameter: 0.195 Inches
- 2.7 Nom. Cable Weight: 28.0 lbs./1000 ft.
- 2.4 Flammability: Meets or exceeds FAR25.869 requirements.
- 2.5 Impedance: 150  $\Omega$  +/- 10%
- 2.6 Nom. Capacitance: 9 pF/ft
- 2.7 Nom. Velocity of Propagation: 80%
- 2.8 Typical Delay Skew: 3 ps/ft
- 2.9 Nom. Attenuation: 13 dB/100ft at 531 Mhz; 21 dB/100ft at 1062 Mhz.
- 4.0 Marking: The Cable shall be marked with the manufacturer's identification, the manufacturer's part number, and other marking information normally supplied. Package marking will be acceptable in lieu of part marking.
- 5.0 Workmanship: The Cable shall be manufactured in such a manner as to be uniform in quality, and it shall be free from defects that may adversely affect the function of the part.
- 6.0 Lot Conformance Testing: The manufacturer shall be responsible for assuring compliance to all requirements of this drawing.
- 6.1 Test Methods: The unit shall be visually examined and mechanically measured to assure compliance to all requirements specified herein.

DWG NO.	REV	CAGE	SHEET
19-2795753	-	67032	2

7.0 Cable Suggested Source of Supply

Tensolite  
St. Augustine, FL 32092

CAGE No.: 92607

Cable Manufacturer's Part No.: 26473/02006X-4(LD)

7.1 Identification of the Suggested Source of Supply hereon is not to be construed as a guarantee of present or continued availability as a source of supply for the item.

8.0 Tensolite Cable 26473/02006X-4(LD) with an additional braid equivalent to AA59569, Rev. AR36T203 woven around it.

8.1 Procuring Activity Part No.: 19-2795753-1

8.2 Altered Cable Suggested Source of Supply

Hamilton Products, Inc.  
PO Box 1100  
Sherburne, NY 13460 USA  
Ph: 607-674-2030