

# Thermamax

**100 Ohm Transmission Pair**  
 Scope: This specification defines the characteristics for a high speed, light weight fluoropolymer, two conductor balanced line.

**Thermamax - East**  
 19-02 Whitestone Expressway  
 Whitestone, NY 11357  
 (888) 761-7800 Fax (718) 746-4190

**Thermamax - West**  
 8946 Winnetka Avenue  
 Northridge, CA 91324  
 (800) 423-5873 Fax (818) 701-7964

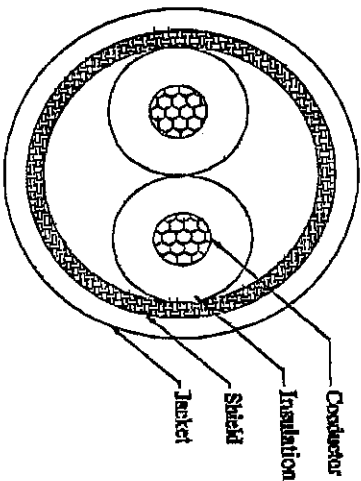
## Construction Details - Two conductors

**Conductor** 22 AWG 19 x 34 stranding, silver plated copper  
**Insulation** Extruded expanded PTFE/PTFE tape  
**Colors:** White  
 Blue  
**Cabling** Two insulated conductors cabled together  
**Shield** Tin plated copper braid having 90% minimum coverage  
**Jacket** Extruded fluorinated ethylene propylene (FEP)  
**Identification** Color: White  
 Marker tape with Thermax/CDT part number and cage code

### Diameter (inch)

Nom. .0295  
 .074

1.48  
 1.66  
 .191 (max.)



## Properties

**Weight**  
 Characteristic Impedance  
 Capacitance (per Mft-C-17)  
 Velocity of Propagation  
 Attenuation @ 1 MHz  
 5 MHz  
 10 MHz

21 lbs./1,000 ft. (nom.)  
 100 ohms  $\pm$  10%  
 13.5 pF/ft. (nom.)  
 77% (nom.)  
 0.6 dB/100 ft. (nom.)  
 1.3 dB/100 ft. (nom.)  
 1.9 dB/100 ft. (nom.)

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Cage Code  
 12814

Product Specification		Revisions	
Rev.	Description	Date	Approved
1	Initial release	01/25/01	JND

1035-100

Prepared by

JL

Date

01/25/01

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F-04-04 Rev. C

# Thermax

**77 Ohm Data Transmission Pair**  
 Scope: This specification defines the characteristics for a fluoropolymer two conductor 22 AWG transmission pair.

**Thermax/CDT - East**  
 19-02 Whitestone Expressway  
 Whitestone, NY 11357  
 (888) 761-7800 Fax (718) 746-4190

**Thermax/CDT - West**  
 8946 Winnemka Avenue  
 Northridge, CA 91324  
 (800) 423-5873 Fax (818) 701-7964

## Construction Details

Diameter (inch)

**Conductor** 22 AWG 19 x 34 stranding nickel plated copper alloy .0295

**Insulation** Extruded polytetrafluoroethylene (PTFE) .060  
 Colors: Blue  
 White

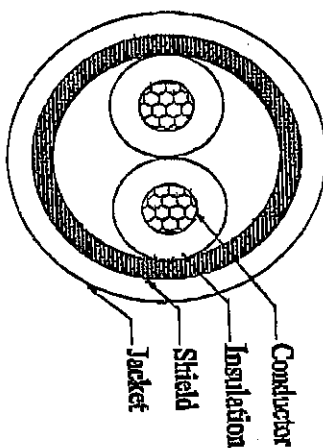
**Cabling** Two insulated conductors cabled together  
**Shield** Tin plated copper braid having 85% minimum coverage

**Jacket** Extruded fluorinated ethylene propylene (FEP) .158  
 Color: White

**Identification** Nomex marker tape under shield with Thermax/CDT part number and cage code

## Properties

**Temperature Rating** 150°C  
**Weight** 18.5 lbs./1,000 ft. (nom.)  
**Characteristic Impedance** 77 ohms ± 10%  
**Mutual Capacitance** 20 pF/ft. (nom.)



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Cage Code		Product Specification		Revisions	
12814		1239-77		Rev.	Date
Prepared by	Date	Page	Description	Date	Approved
VGM	8/3/05	1 of 1	Initial Release	8/3/05	JAD

F-04-04 Rev. A