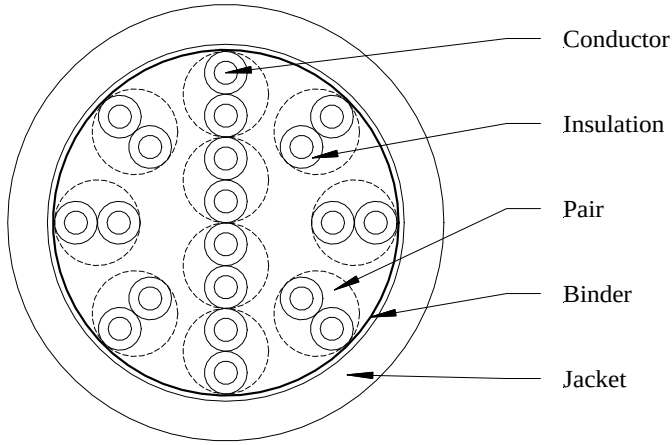


# 10 PAIR 26 AWG CABLE

## CUSTOMER PROPRIETARY

THIS CONFIDENTIAL DOCUMENT HAS BEEN RELEASED WITH THE UNDERSTANDING THAT IT SHALL NOT BE SENT TO ANYONE OTHER THAN THE ORIGINAL INTENDED RECIPIENT WITHOUT PRIOR AUTHORIZATION FROM TE CONNECTIVITY/MADISON CABLE



### CONSTRUCTION

#### Pair Component

**Conductor:** 26 AWG Solid Tin Plated Copper, 0.0159 Inch Diameter

**Insulation:** 0.0095 Inches of Semi-Rigid PVC, 0.035 Inch Diameter

**Pair:** 2 Insulated Conductors Twisted Together, Lay Lengths Varied Between Pairs to Minimize Crosstalk

#### Final Assembly

**Core:** 2 Pairs (#1-2) Cabled Together

**Layer 1:** 8 Pairs (#3-10) Cabled Around Core

**Binder:** Polyester Tape, 25% Overlap

**Ripcord:** Applied Under Jacket

**Jacket:** 0.033 Inches of PVC, Color – Nortel Light Olive Gray

**Diameter:** 0.290 Inches Nominal, 0.310 Inches Maximum

**Print Legend (Black Ink):** "MADISON CABLE (UL) TYPE CMR 90°C 10 PR/26 AWG C(UL) TYPE CMG 90°C R0101768 RoHS COMPLIANT {Date Code<sup>1</sup>}"

**Footage Marking:** Sequential footage marked every 24 Inches on jacket.

<sup>1</sup> Date code is a 4-digit code with the first 2 digits identifying the calendar year and the last 2 digits identifying the calendar quarter of manufacture. Example - 0002 for cable manufactured in May 2000.

### COLOR CODE

| Pair # | Conductor #1 | Conductor #2 |
|--------|--------------|--------------|
| 1      | White/Blue   | Blue/White   |
| 2      | White/Orange | Orange/White |
| 3      | White/Green  | Green/White  |
| 4      | White/Brown  | Brown/White  |
| 5      | White/Gray   | Gray/White   |
| 6      | Red/Blue     | Blue/Red     |
| 7      | Red/Orange   | Orange/Red   |
| 8      | Red/Green    | Green/Red    |
| 9      | Red/Brown    | Brown/Red    |
| 10     | Red/Gray     | Gray/Red     |

### ELECTRICAL CHARACTERISTICS

**Differential Impedance:** 115 +/- 12 Ohms @ 1 MHz

**Mutual Capacitance:** 125 pF/ft Maximum @ 1 kHz, Method per NPS90529  
Paragraph 3.12.16.1

**Capacitance Unbalance (Pair to Pair):**

0.16 pF/ft Maximum

0.04 pF/ft Maximum Average

**Time Delay:** 2.13 ns/ft Maximum @ 2.56 MHz

**Insulation Resistance:** 152 MegOhm-km Minimum @ 24 ± 4°C

**Attenuation:** 10 dB/1000 ft Maximum @ 1.28 MHz

**FEXT:** 73 dB RMS Minimum @ 150 kHz @ 1000 ft, Method per ASTM D4566  
58 dB RMS Minimum @ 1.28 MHz @ 1000 ft, Method per ASTM D4566

**NEXT:** 58 dB (Mean Sigma) Minimum @ 1.28 MHz, Method per ASTM D4566

**Conductor DC Resistance:** 0.047 Ohms/ft Maximum in Cable

**Resistance Unbalance (Within Pair):**

4% Maximum

1.5% Maximum Average

### SAFETY CERTIFICATION

**UL Listing:** Type CMR as specified in Article 800 of the National Electrical Code

**C(UL) Listing:** Type CMG as specified in Article 800 of the National Electrical Code

**RoHS Compliance:** In Accordance to European Directive 2002/95/EC, Issue  
13.2.2003



#### Madison Cable

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### REVISION HISTORY

|   |          |    |                      |
|---|----------|----|----------------------|
| 1 | 11/10/05 | EP | Initial Release      |
| 2 | 12/09/05 | EP | Added P/N            |
| 3 | 03/16/12 | HA | Revised Print Legend |
|   |          |    |                      |
|   |          |    |                      |
|   |          |    |                      |

**Spec Number:** 101-3522

**Part Number:** 20REILF001

**Customer:** Nortel Networks

**Customer #:** R0101768 (For Reference Only)

**Prepared By:** H. Abusamra

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Users should evaluate the suitability of this product for their application. Contact factory for latest revision of specification. TE Connectivity reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to the Buyer.