

Product Specification for a 75 Ω Extended Distance Precision Coaxial Cable RG-11/U Type, Also Used For Digital and Analog Interconnects, CATV and Video Application Plenum Rated Cable

Description: 1/C 14 AWG Solid Bare Copper, Foam FEP Insulation, Aluminum/Polyester/Aluminum Tape, Tinned Copper Braid Shield and PVDF Copolymer Jacket.

A. Construction:


- 1.0 Conductor: 14 AWG Solid Bare Copper; OD: .064" Nom.
- 2.0 Insulation: .108" Wall Foam FEP; OD: .280" Nom.
- 3.0 Shield #1: Aluminum/Polyester/Aluminum, 100% Coverage
- 4.0 Shield #2: 34 AWG Tinned Copper Braid 95% Nom. Coverage
- 5.0 Jacket: .016" Wall PVDF/Copolymer; Color: See Table 1
OD: .344" Nom.
- 6.0 Marking Surface Printed:
HELIX/HITEMP (F) P/N 495027 – 14 AWG 150C CMP (UL) c(UL) – CATVP – 3.0 GHZ
– 75 OHM PRECISION COAXIAL CABLE MM/YY XXXXXXFEET

MM/YY: date of Mfg

XXXXXXfeet: Indicates Sequential Footage Every Two Feet.

B. Electrical and Physical Characteristics:

- 1.0 Impedance: 75 Ω +/- 3 Ω
- 2.0 Capacitance: 16.2 pF/ft Nom.
- 3.0 Velocity of Propagation: 84% Nom
- 4.0 Conductor DCR: 2.58 Ω/kft Nom.
- 5.0 Shield DCR: 1.50 Ω/kft Nom.
- 6.0 Inductance: .097 μH/ft
- 7.0 Time Delay: 1.21 ns/ft
- 8.0 SRL: 23dB Nom. up to 850 MHz.
20dB Nom. up to 3.0 GHz.

| REV | DATE | CHANGE DETAIL | | |
|-----|----------|--|--|---|
| | | Ref. B-7732A |  <p style="text-align: center;">General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122</p> | |
| H | 11/05/09 | Edit print from 125c to 150c add 3.GHz and jkt .018 to .016 & p/n / GT | | |
| G | 7/27/06 | Changed SRL from Min to Nom - TG | | |
| F | 8/25/05 | Update Spec to New Format - RZ | Title: | 495027 |
| E | 04/08/04 | Edit wall thickness / GT | Description: | 14 AWG – Dual Shielded –RG-11/U Type Plenum Precision SD Coaxial Cable |
| D | 02/20/03 | Revise attn and spec to format / GT | Eng Approval: | <i>G. Tokatli</i> |
| C | 12/02/02 | Revise spec to new format and print legend/pf | Mktg Approval: | |
| B | 08/07/02 | Revised spec from, print & attn / GT | Final Approval: | |
| A | 06/18/01 | Initial Release - GT | | PAGE 1 of 2 |

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| 9.0 Attenuation (Nom): | (MHz) | dB/100 ft. | dB/100m |
|------------------------|--------|------------|---------|
| | 1.0 | 0.12 | 0.39 |
| | 3.58 | 0.24 | 0.79 |
| | 5.0 | 0.30 | 0.98 |
| | 7.0 | 0.36 | 1.18 |
| | 10.0 | 0.43 | 1.41 |
| | 67.5 | 1.09 | 3.58 |
| | 71.5 | 1.12 | 3.68 |
| | 88.5 | 1.27 | 4.17 |
| | 100.0 | 1.36 | 4.46 |
| | 135.0 | 1.63 | 5.35 |
| | 143.0 | 1.69 | 5.54 |
| | 180.0 | 1.94 | 6.36 |
| | 270.0 | 2.49 | 8.17 |
| | 360.0 | 3.01 | 9.87 |
| | 540.0 | 3.89 | 12.76 |
| | 750.0 | 4.85 | 15.91 |
| | 1000.0 | 5.91 | 19.38 |
| | 1500.0 | 7.88 | 25.45 |
| | 2000.0 | 9.31 | 30.54 |
| | 2250.0 | 10.61 | 34.80 |
| | 3000.0 | 12.35 | 40.51 |

10.0 Temp. & Voltage Rating: -30°C to +150°C / 300 Volts Max.


11.0 Cable weight: 78.0 lbs/kft Nom.

- C. Agencies Approvals: UL- Subject 444, NEC Article 800 Type CMP and CSA Communication Cable Type c(UL)
 UL- Subject 1655, NEC Article 820 Type CATVP
- D. Flame Rating: Approved for Plenum use per NEC Article 800 by Passing NFPA 262.

Table 1

General Cable P/N
495027.41.86

Jacket Color
Natural

| REV | DATE | CHANGE DETAIL |  | | General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122 | |
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