

## PRODUCT SPECIFICATION 12452 E

**TYPE:** PVC Insulated, Lacquered Cotton Braid Jacketed Wire  
For Internal Wiring of Telephone Equipment  
UL listed AWM Style 1491 90°C, 600 volts VW-1  
CSA listed AWM I A/B 90°C, 300 volts FT-1 (24-10 AWG only)  
RoHS Compliant, Lead-Free

**SIZE:** 24 AWG to 2 AWG - One Conductor

**CONFORMS TO:** Lucent Specification KS-13385 Issue 11

### I. SCOPE:

This specification covers the construction requirements for PVC insulated, cotton braided hook-up wire for internal wiring of telephone equipment.

The construction of the wire and cable is in accordance with Underwriters' Laboratories Appliance Wiring Material (AWM) Style 1491.

### II. CONSTRUCTION:

SIZE (AWG)	STRANDING	INSUL. WALL MIN. AVG. (MILS)	APPROX. OVERALL DIAMETER (INCHES)	APPROX. WEIGHT PER 1000 FT. (POUNDS)
24	SOLID	15	0.080	---
24	7/.008"	14	0.080	---
22	SOLID	15	0.090	4.07
22	7/.010"	14	0.090	4.41
20	SOLID	15	0.100	5.55
20	10/.010"	14	0.100	5.83
19	SOLID	15	0.110	---
18	SOLID	15	0.115	7.71
18	16/.010"	14	0.115	8.07
16	SOLID	15	0.130	11.0
16	26/.010"	14	0.130	11.6
14	SOLID	16	0.150	16.9
14	41/.010"	14	0.150	17.7
12	SOLID	17	0.170	25.2
12	65/.010"	14	0.170	26.4

Continued

**PS-12452 E**  
**DATE: 9-29-05**

**II. CONSTRUCTION (CONTINUED):**

<b>SIZE (AWG)</b>	<b>STRANDING</b>	<b>INSUL. WALL MIN. AVG. (MILS)</b>	<b>APPROX. OVERALL DIAMETER (INCHES)</b>	<b>APPROX. WEIGHT PER 1000 FT. (POUNDS)</b>
<b>10</b>	<b>SOLID</b>	<b>19</b>	<b>0.200</b>	<b>38.2</b>
<b>10</b>	<b>105/.010"</b>	<b>17</b>	<b>0.200</b>	<b>41.5</b>
<b>8</b>	<b>SOLID</b>	<b>21</b>	<b>0.255</b>	<b>- - -</b>
<b>8</b>	<b>7 X 24/.010"</b>	<b>17</b>	<b>0.255</b>	<b>64.3</b>
<b>6</b>	<b>19 X 7/.0142"</b>	<b>25</b>	<b>0.310</b>	<b>99.0</b>
<b>4</b>	<b>19 X 7/.0179"</b>	<b>25</b>	<b>0.370</b>	<b>155.0</b>
<b>2</b>	<b>19 X 35/.010"</b>	<b>25</b>	<b>0.450</b>	<b>237.3</b>

**A. CONDUCTORS:**

Solid or stranded, tin-coated copper conforming to ASTM B-33 and B-174 or B-173.

**B. INSULATION:**

85°C rated Polyvinyl Chloride (PVC) conforming to Underwriters' Laboratories AWM Style 1491 and CSA C22.2 No. 210.2 requirements.

**C. COVERING:**

On all sizes, a lacquered cotton braid conforming to UL requirements is applied over the insulation. The colors shall be as specified on the order.

**D. OPTIONAL CABLING OR SHIELDING:**

2, 3, or 4 conductors may be twisted together when requested. A braided shield may be applied over 1, 2, 3, or 4 conductors with an overall lacquered cotton braid.

**E. TESTING:**

Physical and electrical tests in accordance with UL and CSA standards as applicable.

**F. LABELS:**

UL and CSA labels (as applicable) are applied on all reel tags.