

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

## 8521 Hook-up/Lead - (Type MW) MIL-W-76C- PVC



For more Information  
please call

1-800-Belden1



### General Description:

Tinned copper, PVC insulation, medium wall. The extruded PVC insulation is flame and ozone resistant. Inert to most chemicals, oils, and solvents. Covers single cond., PVC insulated hook-up wire for internal wiring of electrical and electronic equipment.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 1            | 16  | 26x30     | TC - Tinned Copper |

Total Number of Conductors:

1

#### Insulation

Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.4826              |

#### Overall Insulation

#### Overall Cable

Overall Nominal Diameter:

2.489 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 17.858 Kg/Km

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Military Specification: MIL-W-76C type MWP

MIL Spec Rating: 1000 V, 80°C

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 12.304              |

#### Max. Operating Voltage - Other:

| Voltage    | Description |
|------------|-------------|
| 1000 V RMS | Mil-W-76C   |

#### Max. Recommended Current:

| Description                                | Current |
|--|---------|
| Single conductor in free air @ 30C ambient | 22 A    |

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### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color        | Notes | Item Desc          |
|--------------|----------|-------------|--------------|-------|--------------------|
| 8521 001100  | 100 FT   | 1.300 LB    | BROWN        |       | 16 STR PVC BRN     |
| 8521 0011000 | 1,000 FT | 13.000 LB   | BROWN        | P     | 16 STR PVC BRN     |
| 8521 002100  | 100 FT   | 1.300 LB    | RED          |       | 16 STR PVC RED     |
| 8521 0021000 | 1,000 FT | 13.000 LB   | RED          | P     | 16 STR PVC RED     |
| 8521 003100  | 100 FT   | 1.300 LB    | ORANGE       |       | 16 STR PVC ORG     |
| 8521 0031000 | 1,000 FT | 13.000 LB   | ORANGE       | P     | 16 STR PVC ORG     |
| 8521 004100  | 100 FT   | 1.300 LB    | YELLOW       |       | 16 STR PVC YEL     |
| 8521 0041000 | 1,000 FT | 13.000 LB   | YELLOW       | P     | 16 STR PVC YEL     |
| 8521 005100  | 100 FT   | 1.300 LB    | GREEN, DARK  |       | 16 STR PVC GRN     |
| 8521 0051000 | 1,000 FT | 13.000 LB   | GREEN, DARK  | P     | 16 STR PVC GRN     |
| 8521 006100  | 100 FT   | 1.300 LB    | BLUE, LIGHT  |       | 16 STR PVC LBLU    |
| 8521 0061000 | 1,000 FT | 13.000 LB   | BLUE, LIGHT  | P     | 16 STR PVC LBLU    |
| 8521 007100  | 100 FT   | 1.300 LB    | VIOLET       |       | 16 STR PVC VIO     |
| 8521 0071000 | 1,000 FT | 13.000 LB   | VIOLET       | P     | 16 STR PVC VIO     |
| 8521 008100  | 100 FT   | 1.300 LB    | GRAY         |       | 16 STR PVC GRY     |
| 8521 0081000 | 1,000 FT | 13.000 LB   | GRAY         | P     | 16 STR PVC GRY     |
| 8521 009100  | 100 FT   | 1.300 LB    | WHITE        |       | 16 STR PVC WHT     |
| 8521 0091000 | 1,000 FT | 13.000 LB   | WHITE        | P     | 16 STR PVC WHT     |
| 8521 010100  | 100 FT   | 1.300 LB    | BLACK        |       | 16 STR PVC BLK     |
| 8521 0101000 | 1,000 FT | 13.000 LB   | BLACK        | P     | 16 STR PVC BLK     |
| 8521 011100  | 100 FT   | 1.300 LB    | TAN          |       | 16 STR PVC TAN     |
| 8521 0111000 | 1,000 FT | 13.000 LB   | TAN          | P     | 16 STR PVC TAN     |
| 8521 012100  | 100 FT   | 1.300 LB    | PINK         |       | 16 STR PVC PNK     |
| 8521 013100  | 100 FT   | 1.300 LB    | BLUE, DARK   |       | 16 STR PVC DBLU    |
| 8521 0131000 | 1,000 FT | 13.000 LB   | BLUE, DARK   | P     | 16 STR PVC DBLU    |
| 8521 0141000 | 1,000 FT | 13.000 LB   | WHITE/BLACK  | A     | 16 STR PVC WHT/BLK |
| 8521 0151000 | 1,000 FT | 13.000 LB   | WHITE/RED    | A     | 16 STR PVC WHT/RED |
| 8521 0161000 | 1,000 FT | 13.000 LB   | WHITE/GREEN  | A     | 16 STR PVC WHT/GRN |
| 8521 0171000 | 1,000 FT | 13.000 LB   | WHITE/YELLOW | A     | 16 STR PVC WHT/YEL |
| 8521 018100  | 100 FT   | 1.300 LB    | WHITE/BLUE   | A     | 16 STR PVC WHT/BLU |
| 8521 0181000 | 1,000 FT | 13.000 LB   | WHITE/BLUE   | A     | 16 STR PVC WHT/BLU |
| 8521 0191000 | 1,000 FT | 13.000 LB   | WHITE/BROWN  | A     | 16 STR PVC WHT/BRN |
| 8521 0201000 | 1,000 FT | 13.000 LB   | WHITE/ORANGE | A     | 16 STR PVC WHT/ORG |
| 8521 0211000 | 1,000 FT | 13.000 LB   | WHITE/GRAY   | A     | 16 STR PVC WHT/GRY |
| 8521 0221000 | 1,000 FT | 13.000 LB   | WHITE/VIOLET | A     | 16 STR PVC WHT/VIO |

### Notes:

A = STOCKED STRIPE COLORS.

P = STRIPE COLORS ON STOCK SOLID COLORS. STRIPPING ADDER OF \$8.00/M' FOR 1 OR 2 STRIPES. 10000' MINIMUM ORDER FOR COLOR COMBINATION.PUT-UP WILL BE SUBJECT TO TWO PIECES (+ OR -) 10% PER SPOOL

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