



REPRESENTATIVE IMAGE

**Product:** [8502](#)

Lead Wire, #20 Str TC, PVC Ins, TYPE B MIL-W-16878/1

[Request Sample](#)

## Product Description

Low Temp Plastic Lead Wire, 20AWG (7x28) Tinned Copper, PVC Insulation, TYPE B MIL-W-16878/1 600V 105C

## Technical Specifications

### Product Overview

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | inter-connection circuits, internal wiring of computer and electronic equipments, (Type B) MIL-W-16878/1-Low Temp applications |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 20  | 7x28      | TC - Tinned Copper | 1                 |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

#### Insulation

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.058 in         | 0.01 in                |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 9.8 Ohm/1000ft        |

#### Current

| Element                                     | Max. Recommended Current [A]                |
|---------------------------------------------|---------------------------------------------|
| Single conductor in free air @ 30C ambient. | Single conductor in free air @ 30°C: 14.0 A |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 600 V RMS         |

### Temperature Range

|                       |                 |
|-----------------------|-----------------|
| Non-UL Temp Rating:   | 105°C           |
| Operating Temp Range: | -40°C To +105°C |

### Mechanical Characteristics

|                              |                |
|------------------------------|----------------|
| Bulk Cable Weight:           | 4.5 lbs/1000ft |
| Min. Bend Radius/Minor Axis: | 0.24 in        |

### Standards

|                      |               |
|----------------------|---------------|
| Military Compliance: | MIL-W-16878/1 |
|----------------------|---------------|

### Applicable Environmental and Other Programs

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

|                                              |                               |
|----------------------------------------------|-------------------------------|
| EU Directive 2003/96/EC (BFR):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | Yes                           |
| CA Prop 65:                                  | Yes                           |
| MII Order #39 (China RoHS):                  | Yes                           |

Flammability, LS0H, Toxicity Testing

|                    |     |
|--------------------|-----|
| UL voltage rating: | N/A |
|--------------------|-----|

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #       | Color              | Put-Up Type | Length   | UPC          |
|--------------|--------------------|-------------|----------|--------------|
| 8502 010100  | Black              | Reel        | 100 ft   | 612825209676 |
| 8502 0101000 | Black              | Reel        | 1,000 ft | 612825209683 |
| 8502 006100  | Blue, Light        | Reel        | 100 ft   | 612825209584 |
| 8502 0061000 | Blue, Light        | Reel        | 1,000 ft | 612825209591 |
| 8502 001100  | Brown              | Reel        | 100 ft   | 612825209430 |
| 8502 0011000 | Brown              | Reel        | 1,000 ft | 612825209447 |
| 8502 008100  | Gray               | Reel        | 100 ft   | 612825209638 |
| 8502 0081000 | Gray               | Reel        | 1,000 ft | 612825209645 |
| 8502 005100  | Green, Dark        | Reel        | 100 ft   | 612825209560 |
| 8502 0051000 | Green, Dark        | Reel        | 1,000 ft | 612825209577 |
| 8502 003100  | Orange             | Reel        | 100 ft   | 612825209508 |
| 8502 0031000 | Orange             | Reel        | 1,000 ft | 612825209515 |
| 8502 002100  | Red                | Reel        | 100 ft   | 612825209461 |
| 8502 0021000 | Red                | Reel        | 1,000 ft | 612825209478 |
| 8502 007100  | Violet             | Reel        | 100 ft   | 612825209614 |
| 8502 0071000 | Violet             | Reel        | 1,000 ft | 612825209621 |
| 8502 009100  | White              | Reel        | 100 ft   | 612825209652 |
| 8502 0091000 | White              | Reel        | 1,000 ft | 612825209669 |
| 8502 0181000 | White, Blue Stripe | Reel        | 1,000 ft | 612825209706 |
| 8502 0151000 | White, Red Stripe  | Reel        | 1,000 ft | 612825209690 |
| 8502 004100  | Yellow             | Reel        | 100 ft   | 612825209539 |
| 8502 0041000 | Yellow             | Reel        | 1,000 ft | 612825209546 |

|           |                                                                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Footnote: | P - STRIPE COLORS ON STOCK SOLID COLORS. STRIPING ADDER OF \$8.00/M= FOR 1 OR 2 STRIPES. 10,000' MINIMUM ORDER FOR COLOR COMBINATION. PUT-UP WILL BE SUBJECT TO TWO PIECES (+ OR -) 10% PER SPOOL, WITH A MINIMUM LENGTH OF 100'., A - STOCKED STRIPE COLORS. |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.369 Revision Date: 08-27-2021 |
|----------------------|--------------------------------------------------|

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