



Product: [8502](#)

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

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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 |
|------------------------|--|

Construction Details

Conductor

| Element      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 1               | 20 AWG | 7x28      | TC - Tinned Copper |

Insulation

| Material                 | Nom. Thickness    | Nom. Insulation Diameter |
|--------------------------|-------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.01 in (0.25 mm) | 0.058 in (1.5 mm)        |

|                                   |                   |
|-----------------------------------|-------------------|
| Overall Cable Diameter (Nominal): | 0.058 in (1.5 mm) |
|-----------------------------------|-------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current                                |
|--------------------|---|
| 9.8 Ohm/1000ft     | Single conductor in free air @ 30°C: 14.0 A |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 105°C          | -40°C To +105°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 0.58 in (15 mm) | 0.58 in (15 mm)   |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 11 lbs (5.0 kg) |
| Bulk Cable Weight: | 4 lbs/1000ft    |

Standards and Compliance

|                                |   |
|--------------------------------|---|
| Environmental Suitability:     | Outdoor   |
| Sustainability:                | CA Prop 65  |
| Military Compliance:           | MIL-W-16878/1   |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.486 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

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

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