



REPRESENTATIVE IMAGE

Product: [8523](#)

Lead Wire, #20 Str TC, PVC Ins, TYPE MW MIL-W-76C-PVC

[Request Sample](#)

Product Description

Low Temp Plastic Lead Wire, 20AWG (7x28) Tinned Copper, PVC Insulation, TYPE MW MIL-W-76C-PVC 1000V 80C

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | inter-connection circuits, internal wiring of computer and electronic equipments, (Type MW) MIL-W-76C-Low Temp applications |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 20 | 10x30 | TC - Tinned Copper | 1 |

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

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.07 in | 0.017 in |

Electrical Characteristics

Conductor DCR

| |
|------------------------------|
| Nominal Conductor DCR |
| 9.85 Ohm/1000ft |

Current

| Element | Max. Recommended Current [A] |
|--|---|
| Single conductor in free air @ 30C ambient | Single conductor in free air @ 30°C: 12.0 A |

Voltage

| |
|--------------------------|
| UL Voltage Rating |
| 1000 V RMS |

Temperature Range

| | |
|-----------------------|----------------|
| Non-UL Temp Rating: | 80°C |
| Operating Temp Range: | -40°C To +80°C |

Mechanical Characteristics

| | |
|--------------------|--------------|
| Bulk Cable Weight: | 5 lbs/1000ft |
|--------------------|--------------|

Standards

| | |
|----------------------|--------------------|
| Military Compliance: | MIL-W-76C Type MWP |
|----------------------|--------------------|

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 II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01 |
| CA Prop 65: | Yes |
| MII Order #39 (China RoHS): | Yes |

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|--------------|---------------------|------------|----------|--------------|
| 8523 010100 | Black | Reel | 100 ft | 612825347859 |
| 8523 0101000 | Black | Reel | 1,000 ft | 612825211976 |
| 8523 013100 | Blue, Dark | Reel | 100 ft | 612825211990 |
| 8523 0131000 | Blue, Dark | Reel | 1,000 ft | 612825212003 |
| 8523 006100 | Blue, Light | Reel | 100 ft | 612825211877 |
| 8523 0061000 | Blue, Light | Reel | 1,000 ft | 612825211884 |
| 8523 001100 | Brown | Reel | 100 ft | 612825211754 |
| 8523 0011000 | Brown | Reel | 1,000 ft | 612825347842 |
| 8523 008100 | Gray | Reel | 100 ft | 612825211914 |
| 8523 0081000 | Gray | Reel | 1,000 ft | 612825211921 |
| 8523 005100 | Green, Dark | Reel | 100 ft | 612825211853 |
| 8523 0051000 | Green, Dark | Reel | 1,000 ft | 612825211860 |
| 8523 003100 | Orange | Reel | 100 ft | 612825211808 |
| 8523 0031000 | Orange | Reel | 1,000 ft | 612825211815 |
| 8523 002100 | Red | Reel | 100 ft | 612825211778 |
| 8523 0021000 | Red | Reel | 1,000 ft | 612825211785 |
| 8523 007100 | Violet | Reel | 100 ft | 612825211891 |
| 8523 0071000 | Violet | Reel | 1,000 ft | 612825211907 |
| 8523 009100 | White | Reel | 100 ft | 612825211938 |
| 8523 0091000 | White | Reel | 1,000 ft | 612825211945 |
| 8523 0141000 | White, Black Stripe | Reel | 1,000 ft | 612825212010 |
| 8523 018100 | White, Blue Stripe | Reel | 100 ft | 612825212034 |
| 8523 0181000 | White, Blue Stripe | Reel | 1,000 ft | 612825212041 |
| 8523 0211000 | White, Gray Stripe | Reel | 1,000 ft | 612825212058 |
| 8523 0161000 | White, Green Stripe | Reel | 1,000 ft | 612825212027 |
| 8523 004100 | Yellow | Reel | 100 ft | 612825211822 |
| 8523 0041000 | Yellow | Reel | 1,000 ft | 612825211839 |

| | |
|-----------|---|
| 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'. |
| Footnote: | A - STOCKED STRIPE COLORS. |

History

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| Update and Revision: | Revision Number: 0.305 Revision Date: 08-12-2020 |
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