



**Product:** [83008](#)

Lead Wire, #20 Str SPC, TFE Ins, AWM 1213

[Request Sample](#)

**Product Description**

High Temp Plastic Lead Wire, 20AWG (7x28) Silver Plated Copper, TFE Insulation, AWM 1213 105C TYPE E MIL-W-16878/4 600V 200C

**Technical Specifications**

**Product Overview**

|                        |   |
|------------------------|---|
| Suitable Applications: | high temperature, inter-connection circuits, internal wiring of computer and electronic equipments, (Type E) MIL-W-16878/4 applications |
|------------------------|---|

**Physical Characteristics (Overall)**

**Conductor**

| AWG | Stranding | Material             | No. of Conductors |
|-----|-----------|----------------------|-------------------|
| 20  | 7x28      | SC - Silvered Copper | 1                 |

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

**Insulation**

| Material                       | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------|------------------|------------------------|
| PTFE - Polytetrafluoroethylene | 0.058 in         | 0.01 in                |

**Electrical Characteristics**

**Voltage**

|                          |
|--------------------------|
| <b>UL Voltage Rating</b> |
| 600 V RMS                |

**Temperature Range**

|                     |       |
|---------------------|-------|
| Non-UL Temp Rating: | 200°C |
| UL Temp Rating:     | 105°C |

**Mechanical Characteristics**

|                              |                |
|------------------------------|----------------|
| Bulk Cable Weight:           | 5.2 lbs/1000ft |
| Min. Bend Radius/Minor Axis: | 0.24 in        |

**Standards**

|                          |                   |
|--------------------------|-------------------|
| UL AWM Style Compliance: | UL AWM Style 1213 |
| NEMA Compliance:         | HP3               |
| Military Compliance:     | MIL-W-16878/4     |

**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, LSOH, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | VW-1      |
| UL voltage rating: | 600 V RMS |

## Plenum/Non-Plenum

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

## Part Number

### Variants

| Item #        | Color       | Put-Up Type | Length   | UPC          |
|---------------|-------------|-------------|----------|--------------|
| 83008 010100  | Black       | Reel        | 100 ft   | 612825354093 |
| 83008 0101000 | Black       | Reel        | 1,000 ft | 612825354086 |
| 83008 006100  | Blue, Light | Reel        | 100 ft   | 612825354024 |
| 83008 0061000 | Blue, Light | Reel        | 1,000 ft | 612825354109 |
| 83008 001100  | Brown       | Reel        | 100 ft   |              |
| 83008 005100  | Green, Dark | Reel        | 100 ft   | 612825354079 |
| 83008 0051000 | Green, Dark | Reel        | 1,000 ft | 612825354017 |
| 83008 003100  | Orange      | Reel        | 100 ft   |              |
| 83008 0031000 | Orange      | Reel        | 1,000 ft |              |
| 83008 002100  | Red         | Reel        | 100 ft   | 612825353997 |
| 83008 0021000 | Red         | Reel        | 1,000 ft | 612825354208 |
| 83008 009100  | White       | Reel        | 100 ft   | 612825354192 |
| 83008 0091000 | White       | Reel        | 1,000 ft | 612825378389 |
| 83008 004100  | Yellow      | Reel        | 100 ft   | 612825354185 |
| 83008 0041000 | Yellow      | Reel        | 1,000 ft |              |

Footnote: S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE), W - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'.

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.358 Revision Date: 12-15-2021 |
|----------------------|--|

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Belden Wire & Cable:

[83008 0021000](#) [83008 0091000](#) [83008 0101000](#) [83008 0061000](#) [83008 0051000](#) [83008 0071000](#) [83008 0041000](#)  
[83008 010100](#) [83008 009100](#) [83008 002100](#) [83008 004100](#) [83008 003100](#) [83008 001100](#) [83008 006100](#) [83008](#)  
[005100](#)