



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**

<b>Nominal Conductor DCR</b>
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**

<b>UL Voltage Rating</b>
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, LSOH, 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
----------------------	--

© 2021 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.