



Product: [8503](#)

Lead Wire, #22 Str TC, PVC Ins, TYPE B MIL-W-16878/1

Request Sample

Product Description

Low Temp Plastic Lead Wire, 22AWG (7x30) 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	22 AWG	7x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
PVC - Polyvinyl Chloride	0.01 in (0.25 mm)	0.05 in (1.3 mm)

Overall Cable Diameter (Nominal):	0.050 in (1.3 mm)
-----------------------------------	-------------------

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
16.2 Ohm/1000ft	Single conductor in free air @ 30°C: 11.0 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.
0.50 in (13 mm)	0.50 in (13 mm)

Max. Pull Tension:	8 lbs (3.6 kg)
Bulk Cable Weight:	3 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: 0.485 Revision Date: 02-03-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8503 010100	Black	Reel	100 ft	612825209959	
8503 0101000	Black	Reel	1,000 ft	612825209966	P
8503 006100	Blue, Light	Reel	100 ft	612825209843	
8503 0061000	Blue, Light	Reel	1,000 ft	612825209850	P
8503 001100	Brown	Reel	100 ft	612825209713	
8503 0011000	Brown	Reel	1,000 ft	612825209720	P
8503 008100	Gray	Reel	100 ft	612825209898	
8503 0081000	Gray	Reel	1,000 ft	612825209904	P
8503 005100	Green, Dark	Reel	100 ft	612825209829	
8503 0051000	Green, Dark	Reel	1,000 ft	612825209836	P
8503 003100	Orange	Reel	100 ft	612825209775	
8503 0031000	Orange	Reel	1,000 ft	612825209782	P
8503 002100	Red	Reel	100 ft	612825209751	
8503 0021000	Red	Reel	1,000 ft	612825209768	P
8503 007100	Violet	Reel	100 ft	612825209867	
8503 0071000	Violet	Reel	1,000 ft	612825209874	P
8503 009100	White	Reel	100 ft	612825209911	
8503 0091000	White	Reel	1,000 ft	612825209928	P
8503 0141000	White, Black Stripe	Reel	1,000 ft	612825209973	A
8503 0181000	White, Blue Stripe	Reel	1,000 ft	612825210016	A
8503 0191000	White, Brown Stripe	Reel	1,000 ft	612825210023	A
8503 0211000	White, Gray Stripe	Reel	1,000 ft	612825210030	A
8503 0161000	White, Green Stripe	Reel	1,000 ft	612825209997	A
8503 0151000	White, Red Stripe	Reel	1,000 ft	612825209980	A
8503 0221000	White, Violet Stripe	Reel	1,000 ft	612825210047	A
8503 0171000	White, Yellow Stripe	Reel	1,000 ft	612825210009	A
8503 004100	Yellow	Reel	100 ft	612825209805	
8503 0041000	Yellow	Reel	1,000 ft	612825209812	P

© 2025 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.