



Product: [8866](#)

Lead Wire, #18 Str TC, Conductive PO/PO Ins, PVC Jkt, 40kV

Request Sample

Product Description

Low Temp Plastic Lead Wire, 18AWG (16x30) Tinned Copper, Conductive PO/PO Insulation, PVC Outer Jacket, 40kV

Technical Specifications

Product Overview

Suitable Applications:	internal wiring of electronic equipments, high voltage applications
------------------------	---

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	18 AWG	16x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
PO - Polyolefin	0.057 in (1.4 mm)	0.178 in (4.52 mm)

Table Notes:	.008 in. conductive polyethylene over stranding.
--------------	--

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.208 in (5.28 mm)

Overall Cable Diameter (Nominal):	0.208 in (5.28 mm)
-----------------------------------	--------------------

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
1.25 Ohm/1000ft	Single conductor in free air @ 30°C: 62.0 A

Voltage

Voltage Rating	Breakdown Voltage
40,000 V DC, 11,000 V RMS (AC 60 Hertz)	80,000 V (DC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-40°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
2.08 in (52.8 mm)	2.08 in (52.8 mm)

Max. Pull Tension:	53 lbs (24 kg)
Bulk Cable Weight:	20 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor
Sustainability:	CA Prop 65
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: 0.474 Revision Date: 06-01-2023
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8866 002100	Red	Reel	100 ft	612825217091	
8866 002500	Red	Reel	500 ft	612825217107	C
8866 002U500	Red	Reel	500 ft	612825217084	

© 2023 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.