

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 @ 30ºC: 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: 0.475 Revision Date: 07-03-2024

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	

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