



Product: [83007](#)

Lead Wire, #20 Str SPC, TFE Ins, AWM 1213 105C TYPE E

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Product Description

High Temp Plastic Lead Wire, 20AWG (19x32) 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
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
20	19x32	SC - Silvered Copper	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PTFE - Polytetrafluoroethylene	0.056 in	0.009 in

Outer Jacket Material

Nominal Diameter
0.058 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
9 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Mil-Std-975M Table 3.16 (single wire)	6.5 Amps Single Wire (Mil-Std-975M Table 3.16)

Voltage

Description	Voltage Rating [V]
Mil-W-16878/4	600 V RMS Mil-W-16878/4

Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	5 lbs/1000ft
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Standards

UL AWM Style Compliance:	1213
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Military Compliance:	NEMA HP3, MIL-W-16878/4 (Except For Stranding)
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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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83007 010100	Black	Reel	100 ft	612825354413
83007 010500	Black	Reel	500 ft	
83007 0101000	Black	Reel	1,000 ft	612825354215
83007 006100	Blue, Light	Reel	100 ft	
83007 006500	Blue, Light	Reel	500 ft	
83007 0061000	Blue, Light	Reel	1,000 ft	612825399391
83007 001100	Brown	Reel	100 ft	
83007 0011000	Brown	Reel	1,000 ft	612825399377
83007 008100	Gray	Reel	100 ft	
83007 0081000	Gray	Reel	1,000 ft	612825354000
83007 005100	Green, Dark	Reel	100 ft	
83007 0051000	Green, Dark	Reel	1,000 ft	
83007 003100	Orange	Reel	100 ft	
83007 0031000	Orange	Reel	1,000 ft	
83007 002100	Red	Reel	100 ft	612825354031
83007 002500	Red	Reel	500 ft	
83007 0021000	Red	Reel	1,000 ft	612825354222
83007 007100	Violet	Reel	100 ft	
83007 0071000	Violet	Reel	1,000 ft	612825354239
83007 009100	White	Reel	100 ft	
83007 009500	White	Reel	500 ft	
83007 0091000	White	Reel	1,000 ft	612825378372
83007 004100	Yellow	Reel	100 ft	
83007 0041000	Yellow	Reel	1,000 ft	612825399384

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

History

Update and Revision:	Revision Number: 0.289 Revision Date: 06-24-2020
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