Belden

Product: 83005

Lead Wire, #22 Str SPC, TFE Ins, AWM 1213

Request Sample

Product Description

High Temp Plastic Lead Wire, 22AWG (7x30) 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	22 AWG	7x30	SC - Silvered Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
PTFE - Polytetrafluoroethylene	0.01 in (0.25 mm)	0.050 in (1.3 mm)

Overall Cable Diameter (Nominal):	0.05 in (1.3 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
15.25 Ohm/1000ft	Mil-Std-975M Table 3.16 (single wire): 4.5 amps

Voltage

UL Voltage Rating
600 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-70°C To +200°C

Bend Radius

Stationary Min.	Installation Min.
0.5 in (13 mm)	0.5 in (13 mm)

Max. Pull Tension:	11 lbs (5.0 kg)
Bulk Cable Weight:	4 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	VW-1

AWM Compliance:	AWM 1213
CEC / C(UL) Compliance:	.
NEMA Compliance:	HP3
Military Compliance:	MIL-W-16878/4
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.609 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83005 010100	Black	Reel	100 ft	612825354161	E
83005 0101000	Black	Reel	1,000 ft	612825353683	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE)
83005 006100	Blue, Light	Reel	100 ft		E
83005 0061000	Blue, Light	Reel	1,000 ft	612825354123	E S
83005 001100	Brown	Reel	100 ft		E
83005 0011000	Brown	Reel	1,000 ft	612825399315	E S
83005 008100	Gray	Reel	100 ft		E
83005 0081000	Gray	Reel	1,000 ft		E S
83005 005100	Green, Dark	Reel	100 ft		E
83005 0051000	Green, Dark	Reel	1,000 ft		E S
83005 003100	Orange	Reel	100 ft		E
83005 0031000	Orange	Reel	1,000 ft		E S
83005 002100	Red	Reel	100 ft	612825354352	E
83005 0021000	Red	Reel	1,000 ft	612825354345	E S
83005 007100	Violet	Reel	100 ft		E
83005 0071000	Violet	Reel	1,000 ft		E S
83005 009100	White	Reel	100 ft	612825354338	E
83005 0091000	White	Reel	1,000 ft	612825354130	E S
83005 004100	Yellow	Reel	100 ft		E
83005 0041000	Yellow	Reel	1,000 ft	612825354147	E S

Footnote:	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'., S - STRIPING ADDERS FOR TYPES E AND EE: 1, 2, 3 STRIPES. MINIMUM ORDER 10,000' PER STRIPE COMBINATION. (SEE STRIPING ADDER TABLE)

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