Belden



Product: 1031AE

Inst, 1 Tri #16 Str BC, PVC-Nylon Ins E1, OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

Product Description

UL Instrumentation, 1 Triad 16AWG (7x24) Bare Copper, PVC-Nylon Ins E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC CMG AWM 2464 SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Exposed Runs, Hazardous Locations,PLC,4-20ma

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Triad(s)	3	16 AWG	7x24	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.090 in (2.3 mm)	Black, White, Red

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.042 in (1.1 mm)	0.331 in (8.41 mm)	Yes

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Inductance	Max. Current
4.2 Ohm/1000ft (14 Ohm/km)	54. pF/ft (180 pF/m)	97.3 pF/ft (319 pF/m)	0.156 µH/ft (0.512 µH/m)	10 Amps per Conductor at 30ºC

Voltage

UL Voltage Rating
300 V RMS (PLTC-ER)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-30°C To +105°C

Max. Pull Tension:	107 lbs (48.5 kg)
Bulk Cable Weight:	58 lbs/1000ft (86 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial

Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, 1202
NEC / UL Compliance:	CMG, ITC, PLTC
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG, FT4
IEEE Compliance:	1202
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)

Product Notes

Notes:	Alternate color coding available upon request.

History

Update and Revision:	Revision Number: 0.159 Revision Date: 10-30-2026

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