Belden



Product: 3031AE

Inst, 4 TR #18+22 Str BC, PVC-Nylon Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

Product Description

UL Instrumentation, 4 Triad 18+22AWG (7x26+7x30) Bare Copper, PVC-Nylon Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER 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)	4	18	7x26	BC - Bare Copper
Comm Wire(s)	1	22 AWG	7x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.017 in (0.43 mm)	0.091 in (2.3 mm)	Black & White and RED 1, Black & White and RED 2, Black & White and RED 3, Black & White and RED 4, Orange (Communication Wire)
Comm Wire(s)	PVC - Polyvinyl Chloride		0.066 in (1.7 mm)	Orange

Inner Shield

Element	Shield Type	Material
	Tape	Bi-Laminate (Alum+Poly)
Comm Wire(s)	No Shield	

Outer Shield

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

Outer Jacket

Nom. Thickness	Nom. Diameter	Ripcord
0.060 in (1.5 mm)	0.635 in (16.1 mm)	Yes

Electrical Characteristics

Electricals

Element
Comm Wire(s)

Voltage

UL Voltage Rating
(TC)

Mechanical Characteristics

Temperature

Operating
-30°C To +105°C

Bulk Cable Weight:	150 lbs/1000ft (220 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading
NEC / UL Compliance:	CMG, PLTC-ER, ITC-ER
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG
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: 0.10 Revision Date: 10-30-2026

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