



Product: [1477A](#)

Inst, 12 Pr #18+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

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Product Description

UL Instrumentation, 12 Pair 18+22AWG (7x26+7x30) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	12	18 AWG	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 - Polyvinyl Chloride	0.017 in (0.43 mm)	0.080 in (2.0 mm)	ICEA Chart E1
Comm Wire(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	0.066 in (1.7 mm)	Orange

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC
Comm Wire(s)	No Shield			

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.764 in (19.4 mm)	Yes

Overall Cable Diameter (Nominal):	0.764 in (19.4 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
Pair(s)	6.66 Ohm/1000ft	8.48 Ohm/1000ft (27.8 Ohm/km)	6 Amps per conductor @ 30°C
Comm Wire(s)	17.2 Ohm/1000ft (56.4 Ohm/km)		9.6 Amps per conductor @ 30°C

Voltage

UL Voltage Rating
300 V (PLTC, CMG, AWM 2464), 150 V (ITC)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
9.2 in (230 mm)	9.2 in (230 mm)

Max. Pull Tension:	582 lbs (264 kg)
Bulk Cable Weight:	277 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.538 Revision Date: 04-14-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1477A 0105000	Black	Reel	5,000 ft	612825115458
1477A 0061000	Blue, Light	Reel	1,000 ft	612825115441

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