



Product: [32T1612](#) 

Inst PVC/PVC, 12 Tri #16 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V
PLTC ITC CMG

Product Description

UL Instrumentation, 12 Triad 16AWG (7x24) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 SUN RES

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, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material
Triad(s)	16	7x24	BC - Bare Copper

Conductor Count:	36
Total Number of Triads:	12

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.091 in mm	0.017 in

Color Chart

Number	Color
1	Black, White, Red #1
2	Black, White, Red #2
3	Black, White, Red #3
4	Black, White, Red #4
5	Black, White, Red #5
6	Black, White, Red #6
7	Black, White, Red #7
8	Black, White, Red #8
9	Black, White, Red #9
10	Black, White, Red #10
11	Black, White, Red #11
12	Black, White, Red #12

Inner Shield

Element	Type	Material	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Each Triad	Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	0.036 in	20

Outer Shield

Type	Material	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	0.036 in	20

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
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PVC - Polyvinyl Chloride	0.945 in	0.074 in
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Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
4.36 Ohm/1000ft	10.77 Ohm/1000ft	16.8 Ohm/1000ft

Current

Max. Recommended Current [A]
9 Amps per Conductor at 30°C

Voltage

Description	UL Voltage Rating	Voltage Rating [V]
Type PLTC	300 V	300 V RMS

Temperature Range

UL Temperature Rating:	105°C
Operating Temperature Range:	-30°C To +105°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	552 lbs/1000ft
Maximum Recommended Pulling Tension:	1310 lbs
Minimum Minor Axis Bend Radius:	9.20 in

Standards

NEC Articles:	Article 800, Article 725, Article 727
NEC/(UL) Compliance:	CMG, ITC, PLTC
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes

Suitability

Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

CSA/C(UL) Flammability:	FT4
UL Flammability:	UL 1685 UL Loading
ICEA Flammability:	T-29-520
IEEE Flammability:	IEEE 1202
UL voltage rating:	300 V RMS (PLTC)

Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Update and Revision:	Revision Number: 0.54 Revision Date: 08-10-2026
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