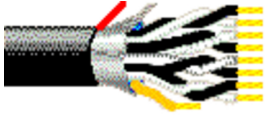


**Product:** [3034A](#) 



Inst, 16 Pr #18+1c #22 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

 [Request Sample](#)

## Product Description

UL Instrumentation, 16 Pair 18+22AWG (7x26+7x30) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER 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

### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	16	18 AWG	7x26	BC - Bare Copper
'Stranding@Conductor1'	1	22 AWG	7x30	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	Black, White and Numbered
'Stranding@Conductor1'	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	Orange

#### 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)	0.769 in (19.5 mm)	Yes

Overall Cable Diameter (Nominal): 0.769 in (19.5 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Max. Conductor DCR
Pair(s)		5.86 Ohm/1000ft (19.2 Ohm/km)
'Stranding@Conductor1'	14.7 Ohm/1000ft (48.2 Ohm/km)	

#### Voltage

##### UL Voltage Rating

300 V (CMG, PLTC-ER, UL AWM 2464), 150 V (ITC-ER)

### Mechanical Characteristics

#### Temperature

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

## Bend Radius

Stationary Min.	Installation Min.
7.7 in (200 mm)	7.7 in (200 mm)

Max. Pull Tension:	640 lbs (290 kg)
Bulk Cable Weight:	330 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG

## History

Update and Revision:	Revision Number: 0.48 Revision Date: 04-08-2022
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