

Product: <u>3042A</u> ☑



Inst, 50 Pr #18+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

😭 Request Sample

Product Description

UL Instrumentation, 50 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

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	No. of Elements	Size	Stranding	Material
Pair(s)	50	18 AWG	7x26	BC - Bare Copper
Comm Wire(s)	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
Comm Wire(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	Orange

Inner Shield

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

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.414 in (35.92 mm)	Yes
Overall Cable Diameter (Nominal):	1.414 in (35.92 i	nm)	

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR
Pair(s)	5.86 Ohm/1000ft (19.2 Ohm/km)
Comm Wire(s)	14.7 Ohm/1000ft (48.2 Ohm/km)

Voltage

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

Temperature

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

Bend Radius

Stationary Min. Installa	tion Min.	
14.1 in (358 mm) 14.1 in ((358 mm)	
Max. Pull Tension:	2935 lbs (1331 kg)	
Bulk Cable Weight:	1174 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, ITC, PLTC
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG

History

Update and Revision:	Revision Number: 0.58 Revision Date: 01-11-2024

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