



# Product: <u>1085A</u> ☑

Inst, 12 Tri #20+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

😭 Request Sample

# **Product Description**

UL Instrumentation, 12 Triad 20+22AWG (7x28) 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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# **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Triad(s)	12	20 AWG	7x28	BC - Bare Copper
Comm Wire(s)	1	22 AWG	7x30	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code
Triad(s)	PVC - Polyvinyl Chloride	0.018 in (0.46 mm)	Black, White, Red and Numbered
Comm Wire(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	Orange

# Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Triad(s)	Таре	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Comm Wire(s)	No Shield			

#### **Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

# Outer Jacket

Material	Nom. Thickness	Nom. Diameter		
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.771 in (19.6 mm)		
Overall Cable Diameter (Nominal):	0.771 in (19.6 m	ım)		

# **Electrical Characteristics**

# Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Max. Current
Triad(s)	9.5 Ohm/1000ft (31 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	3 Amps per conductor @ 25°C
Comm Wire(s)	14.7 Ohm/1000ft (48.2 Ohm/km)			

# Voltage

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

#### Temperature

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

# Bend Radius

# **Standards and Compliance**

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, T-29-520, 1202
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: 0.574 Revision Date: 01-11-2024

#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1085A 0105000	Black	Reel	5,000 ft	612825106135	CZ

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