Product: 8437

Audio, Control and Instrumentation, 1 Pair 22 AWG Solid, Shielded, CMG

Product Description

1 Twisted Pair 22 AWG solid TC, PVC insulation, polyester tape, TC braid shield (90% coverage), 22 AWG solid TC drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, …); line level audio; computer communication; panel wiring

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	Solid	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.015 in

Color Chart

Number	Color
1	Black & Red

Outer Shield

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Braid	Tinned Copper (TC)	90%	TC - Tinned Copper	22	Solid

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVC - Polyvinyl Chloride	0.188 in	0.025 in	Polyester Tape

Construction and Dimensions

Cabling

Filler
Polyester Tape

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
16.2 Ohm/1000ft	4.9 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
48 pF/ft	85 pF/ft

Inductance

Nominal Inductance
0.2 µH/ft

Impedance

Nominal Characteristic Impedance
46 Ohm

Current

Max. Recommended Current [A]
2.9 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V RMS (UL AWM Style 2095)

Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2095)
Operating Temperature Range:	-20°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	22 lbs/1000ft
Max. Pull Tension:	48 lbs
Min. Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2095 (300 V 80°C)

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	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:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
UL voltage rating:	300 V RMS (UL AWM Style 2095)

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
8437 0101000	Black	Reel	1,000 ft	612825207177

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

Notes:	Overall Cabling Separator Material: Polyester Tape

History

Update and Revision:	Revision Number: 0.348 Revision Date: 03-27-2024

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