

**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 25°C

## Voltage

### UL Voltage Rating

300 V RMS (UL AWM Style 2095)

## Temperature Range

UL Temp Rating: 80°C (UL AWM Style 2095)

Operating Temp 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: UL Style 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, LSOH, 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

## Part Number

### 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: 0.340 Revision Date: 12-15-2021 |
|----------------------|--|

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