

Product: [8417](#) 

Audio & Instrumentation, 1 Conductor 25 AWG, TC, O/A Foil, CM



Product Description

25 AWG stranded (7x33) Tinned Copper/Tinned Copper Covered Steel conductor, FPE insulation, double Beldfoil® shield (100% coverage), 26 AWG stranded TC drain wire, PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|------------------------|
| Suitable Applications: | Audio Connecting Cable |
|------------------------|------------------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|------------------|-----------|---|------------------|-------------|
| 25 | 7x33 | TC+TCCS - Tinned Copper (High Conductivity) + Tinned Copper Covered Steel (High Conductivity) | 0.021 in | 1 |
| Conductor Count: | | 1 | | |

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PE - Polyethylene (Foam) | 0.061 in | 0.02 in |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | 1 | Alum / Poly | Beldfoil® | 100% | TC - Tinned Copper | 26 | 7x34 |
| Tape | 2 | Alum / Poly | Beldfoil® | 100% | | | |

| | |
|--------------|------------|
| Table Notes: | Paper Tape |
|--------------|------------|

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.14 in | 0.026 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 45.5 Ohm/1000ft | 20.2 Ohm/1000ft | 20.2 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 29 pF/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 48 Ohm |

Current

| Max. Recommended Current [A] |
|------------------------------|
|------------------------------|

1.5 Amps per Conductor at 25°C

Voltage

Non-UL Voltage Rating

100 V RMS

Temperature Range

| | |
|-----------------------|----------------|
| Non-UL Temp Rating: | 80°C |
| Operating Temp Range: | -20°C To +80°C |

Mechanical Characteristics

| | |
|-----------------------------|--------------|
| Bulk Cable Weight: | 9 lbs/1000ft |
| Max. Pull Tension: | 9.5 lbs |
| Min Bend Radius (Overall): | 1.5 in |
| Min Bend Radius/Minor Axis: | 1.5 in |

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 II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|-------------|-------|------------|--------|--------------|
| 8417 060250 | Gray | Reel | 250 ft | 612825206484 |

Product Notes

| | |
|--------|---|
| Notes: | Outer Shield Separator Material: Paper Tape |
|--------|---|

History

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| Update and Revision: | Revision Number: 0.266 Revision Date: 06-08-2020 |
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