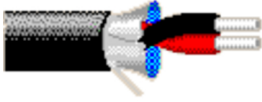


Part Number: 8450

Audio & Instrumentation, #22-1pr, TC, O/A Foil, CM



Product Description

22 AWG solid tinned copper conductors, polypropylene insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG solid TC drain wire, PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	TC - Tinned Copper	0.02635 in	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	22 AWG

Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.007 in

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	0.02635 mm	22	Solid

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.118 in	0.018 in
	0.118 in	

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR
16.1 Ohm/1000ft	16.1 Ohm/1000ft		12.65 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
40 pF/ft	76 pF/ft

Shielding:	Foil(s) or Copper Tape(s)
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Inductance

Nominal Inductance
0.08 µH/ft

Impedance

Nominal Characteristic Impedance

40 Ohm

Delay

Nominal Delay

1.5 ns/ft

Nominal Velocity of Propagation (VP) [%]

66 %

Current

Max. Recommended Current [A]

2.9 Amps per conductor @ 25°C

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

UL Temp Rating:

75°C

Operating Temp Range:

-20°C To +105°C

Mechanical Characteristics

Bulk Cable Weight:

12 lbs/1000ft

Max Recommended Pulling Tension:

37 lbs

Min Bend Radius/Minor Axis:

1.25 in

Standards

NEC/(UL) Specification:

CM

CEC/C(UL) Specification:

CM

CPR Euroclass:

Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):

Yes

EU Directive 2003/11/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

CA Prop 65 (CJ for Wire & Cable):

Yes

MII Order #39 (China RoHS):

Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:

UL 1685 UL Loading

UL voltage rating:

300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):

No

Part Number

Variants

Item #	Color
8450 0101000	Black
8450 010U1000	Black
8450 010U500	Black
8450 0081000	Gray

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