

Part Number: 8451

Audio & Instrumentation, 1 Pair 22 AWG, TC, O/A Foil, CM



Product Description

1 Pair 22 AWG stranded (7x30) TC conductors, polypropylene insulation, paper wrap, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

Technical Specifications

Enviro	nmental Spa	ace:		Indoor - Riser	
Physical Characteristics (Overall)					
Conductor					
AWG Stranding Material No. of Pairs					
22	7x30	TC - Tinned Copper	1		
Condu	ctor Count:			2	
Total	Number of Pa	airs:		1	
Conductor Size:		22 AWG			

Material Nominal Wall Thickness PP - Polypropylene 0.008 in

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

Т	ype	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
т	ape	Aluminum Foil-Polyester Tape	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	22	7x30 mm

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.138 in

Electrical Characteristics

Nominal Conductor DCI	R Nominal Outer SI	nield DCR
14.5 Ohm/1000ft	14.1 Ohm/1000ft	
Capacitance		
Capacitance Nom. Capacitance Conc	luctor to Conductor	Nom. Ca
•	luctor to Conductor	Nom. Ca 67 pF/ft

Inductance

Nominal Inductance

0.17 µH/ft

Impedance

Nominal Characteristic Impedance

45 Ohm

Delay

 Nominal Delay
 Nominal Velocity of Propagation (VP) [%]

 1.5 ns/ft
 66 %

Current

Max. Recommended Current [A]

2.9 Amps per conductor @ 25°C

Voltage

UL Voltage Rating 300V RMS

Temperature Range

Operating Temp Range:	-20°C To +75°C				
Mechanical Characteristics					
Bulk Cable Weight:	15 lbs/1000ft				
Max Recommended Pulling Tension:	27 lbs				
Min Bend Radius/Minor Axis:	1.5 in				

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
UL Voltage Rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
8451 010100	BLACK	
8451 0101000	BLACK	С
8451 01010000	BLACK	
8451 01015000	BLACK	

8451 010U500 8451.01305 8451 0081000	BLACK BLACK GRAY	С
8451 0081000 8451 008500	GRAY	С
8451 008U1000	GRAY	
8451 008U500	GRAY	

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