

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

Environmental Space:		In	door - Riser		
Physical Characteris	stics (Overall)				
Conductor					
<u> </u>	laterial No. of P	airs			
	nned Copper 1				
Conductor Count:		2			
Total Number of Pairs:		1			
Conductor Size:		22	2 AWG		
Insulation					
Material Nomi	nal Wall Thickness				
PP - Polypropylene 0.008	in				
Color Chart					
Number Color					
Number Color					
Number Color 1 Black & Red	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x I
Number Color 1 Black & Red Outer Shield Material	Name	Coverage [%] 100 %	Drainwire Material TC - Tinned Copper		Drainwire Construction n x D 7x30 mm
Number Color 1 Black & Red Outer Shield Material Type Material	Name				
Number Color 1 Black & Red Outer Shield Material Type Material Tape Aluminum/Polyester Outer Jacket Material	Name				
Number Color 1 Black & Red Outer Shield Material Type Material Tape Aluminum/Polyester Outer Jacket Material	Name Beldfoil® (Z-Fold®) Nominal Diameter				
Number Color 1 Black & Red Outer Shield Material Type Material Tape Aluminum/Polyester Outer Jacket Material Material	Name Beldfoil® (Z-Fold®) Nominal Diameter				
Number Color 1 Black & Red Outer Shield Material Type Material Tape Aluminum/Polyester Outer Jacket Material Material	Name Beldfoil® (Z-Fold®) Nominal Diameter 0.138 in				
Number Color 1 Black & Red Outer Shield Material Type Material Tape Aluminum/Polyester Outer Jacket Material N PVC - Polyvinyl Chloride C Electrical Character	Name Beldfoil® (Z-Fold®) Nominal Diameter 0.138 in				
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Number Color 1 Black & Red Outer Shield Material Type Material Tape Aluminum/Polyester Outer Jacket Material N PVC - Polyvinyl Chloride C Electrical Character	Name Beldfoil® (Z-Fold®) Nominal Diameter 0.138 in istics	100 %			
Number Color 1 Black & Red Outer Shield Material Material Type Material Tape Aluminum/Polyester Outer Jacket Material Material PVC - Polyvinyl Chloride C Electrical Character Conductor DCR Nominal Conductor DCR	Name Beldfoil® (Z-Fold®) Nominal Diameter 0.138 in istics Nominal Outer Shield	100 %			

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
34 pF/ft	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 300 V RMS

Temperature Range

Operating Temp Range:	-20°C To +75°C
Mochanical Characteristics	

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 008U500 8451 008Z1000 8451 008Z1000	Gray Gray Gray	
8451 008500 8451 008U1000	Gray Gray	
8451 0081000	Gray	С
8451 010Z1000	Black	
8451 010Z1000	Black	
8451.01305	Black	
8451 010U500	Black	
8451 010U1000	Black	
8451 0105000	Black	
8451 010500	Black	

Product Notes

Notes:

Unique paper separator facilitates jacket stripping.

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