## **Detailed Specifications & Technical Data**

#### **METRIC MEASUREMENT VERSION**



### 8450 Multi-Conductor - Single-Pair Cable



For more Information please call

1-800-Belden1



#### **General Description:**

EU Directive 2002/96/EC (WEEE):

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

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Physical Characteristics (Overall)					
Conductor AWG:					
# Pairs AWG Stranding Conductor Material  1   22   Solid   TC - Tinned Copper					
Total Number of Conductors:	2				
Insulation					
Insulation Material: Insulation Material Wall Thickness (mm)					
PP - Polypropylene   0.1778					
Outer Shield Outer Shield Material:					
Outer Shield Trade Name         Type         Outer Shield Material         Cov           Beldfoil® (Z-Fold®)         Tape         Aluminum Foil-Polyester Tape         100	erage (%)				
Outer Shield Drain Wire AWG:					
AWG Stranding Drain Wire Conductor Material  22   Solid   TC - Tinned Copper					
Outer Jacket					
Outer Jacket Material:					
Outer Jacket Material Nom. Wall Thickness (mm)  PVC - Polyvinyl Chloride 0.4572					
Overall Cable					
Overall Nominal Diameter:	2.997 mm				
Pair Pair Color Code Chart:					
Number Color					
1 Black & Red					
Machanias Characteristics (Occupil)					
Mechanical Characteristics (Overall)  Operating Temperature Range: -20°C To +105°C					
UL Temperature Rating:	75°C				
Bulk Cable Weight:	17.858 Kg/Km				
Max. Recommended Pulling Tension:	164.583 N				
Min. Bend Radius/Minor Axis:	31.750 mm				
Applicable Specifications and Agency Compliance (Ov	erall)				
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CM				
CEC/C(UL) Specification:	CM				
EU Directive 2011/65/EU (ROHS II):	Yes				
EU CE Mark:	Yes				
EU Directive 2000/53/EC (ELV):	Yes				
EU Directive 2002/95/EC (RoHS):	Yes				
FU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004				

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	EU Directive 2003/11/EC (BFR):	Yes		
	CA Prop 65 (CJ for Wire & Cable):	Yes		
	MII Order #39 (China RoHS):	Yes		
Flame Test				
	UL Flame Test:	UL1685 UL Loading		
Plenum/Non-Plenum				
	Plenum (Y/N):	No		

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.26248

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 131.24

Nom. Capacitance Cond. to Other Conductor & Shield:

249,356

Nominal Velocity of Propagation:

VP (%)

Nominal Delay:

Delay (ns/m) 4.9215

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 41.5047

Max. Operating Voltage - UL:

Voltage

Max. Recommended Current:

2.9 Amps per conductor @ 25°C

#### Notes (Overall)

Notes: Belden's® Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8450 0081000	1,000 FT	13.000 LB	GRAY		2 #22 PP SHLD PVC FR
8450 010U1000	1,000 FT	14.000 LB	BLACK		2 #22 PP SHLD PVC FR
8450 010U500	500 FT	7.500 LB	BLACK		2 #22 PP SHLD PVC FR
8450 0101000	1,000 FT	13.000 LB	BLACK		2 #22 PP SHLD PVC FR

Revision Number: 1 Revision Date: 08-27-2012

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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