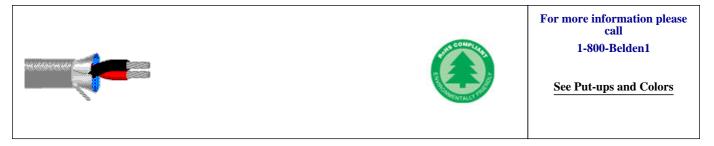
Detailed Specifications & Technical Data



BELDENCable^{**}

8451 Paired - Single-Pair Cable



Description:

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.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1		
Total Number of Conductors	2		
AWG	22		
Stranding	7x30		
Conductor Material	TC - Tinned Copper		
INSULATION:			
Insulation Material	PP - Polypropylene		
Nom. Insulation Wall Thickness	.008 in.		
Lay Length	1.75 in.		
Twists/ft.	6.86		
Pair Color Code Chart :			
Number		Color	
1		Black & Red	

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil® (Z-Fold®)
Outer Shield Type	Таре
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield %Coverage	100 %
OUTER SHIELD DRAIN WIRE :	
Outer Shield Drain Wire AWG	22
Outer Shield Drain Wire Stranding	7x30
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
OUTER JACKET:	
Outer Jacket Material	PVC - Polyvinyl Chloride

Detailed Specifications & Technical Data



8451 Paired - Single-Pair Cable

Outer Jacket Nominal Wall Thickness	.020 in.		
OVERALL NOMINAL DIAMETER:			
Overall Nominal Diameter	.138 in.		
MECHANICAL CHARACTERISTICS:			
Operating Temperature Range	-20°C To +75°C		
Bulk Cable Weight	14.1 lbs/1000 ft.		
Max. Recommended Pulling Tension	27 lbs.		
Min. Bend Radius (Install)	1.4 in.		
APPLICABLE SPECIFICATIONS AND AGENCY	COMPLIANCE:		
APPLICABLE STANDARDS:			
NEC/(UL) Specification	CMR		
CEC/C(UL) Specification	CMG		
EU CE Mark (Y/N)	Yes		
EU RoHS Compliant (Y/N)	Yes		
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004		
FLAME TEST:			
UL Flame Test	UL1666 Riser		
CSA Flame Test	FT4		
PLENUM/NON-PLENUM:			
Plenum (Y/N)	Ν		
ELECTRICAL CHARACTERISTICS:			
Nom. Characteristic Impedance	45 Ohms		
Nom. Inductance	.17 μH/ft		
Nom. Capacitance Conductor to Conductor @ 1 KHz	34 pF/ft		
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	67 pF/ft		
Nominal Velocity of Propagation	66 %		
Nominal Delay	1.5 ns/ft		
Nom. Conductor DC Resistance @ 20 Deg. C	14.5 Ohms/1000 ft		
Nominal Outer Shield DC Resistance @ 20 Deg. C	14.1 Ohms/1000 ft		
Max. Operating Voltage - UL	300 V RMS		
Max. Recommended Current	2.9 Amps per conductor @ 25°C		
NOTES:			
Notes	Unique paper separator facilitates jacket stripping.		

Detailed Specifications & Technical Data



BELDENCable^{**}

8451 Paired - Single-Pair Cable

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8451 0081000	2 #22 PP SHLD PVC FR	1000	16	GRAY	С
8451 008500	2 #22 PP SHLD PVC FR	500	8	GRAY	
8451 008U1000	2 #22 PP SHLD PVC FR	U1000	16	GRAY	
8451 008U500	2 #22 PP SHLD PVC FR	U500	8.5	GRAY	
8451 010100	2 #22 PP SHLD PVC FR	100	2.3	BLACK	
8451 0101000	2 #22 PP SHLD PVC FR	1000	16	BLACK	С
8451 010500	2 #22 PP SHLD PVC FR	500	8	BLACK	
8451 010U1000	2 #22 PP SHLD PVC FR	U1000	16	BLACK	
8451 010U500	2 #22 PP SHLD PVC FR	U500	8.5	BLACK	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-27-2005

© 2005 Belden Wire & Cable Company All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden CDT Electronics Division declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

Belden CDT Electronics Division believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & amp; Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.