Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8641 Multi-Conductor - Single-Pair Cable

For more Information please call

1-800-Belden1



Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	24	7x32	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	.016

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.025

Overall Cable

Overall Nominal Diameter: 0.168 in.

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C	
UL Temperature Rating:	60°C (UL AWM Style 2092)	
Bulk Cable Weight:	12.100 lbs/1000 ft.	
Max. Recommended Pulling Tension:	11 lbs.	
Min. Bend Radius (Install)/Minor Axis:	1.700 in.	

Page 1 of 3 01-06-2012

Detailed Specifications & Technical Data





8641 Multi-Conductor - Single-Pair Cable

Applicable Standards & Environmental Programs			
NEC/(UL) Specification:	CM		
CEC/C(UL) Specification:	CM		
AWM Specification:	UL Style 2092 (300 V 60°C) Yes		
EU CE Mark:			
EU Directive 2000/53/EC (ELV):	Yes		
EU Directive 2002/95/EC (RoHS):	Yes		
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004		
EU Directive 2002/96/EC (WEEE):	Yes		
EU Directive 2003/11/EC (BFR):	Yes		
CA Prop 65 (CJ for Wire & Cable):	Yes		
MII Order #39 (China RoHS):	Yes		
lame Test			
UL Flame Test:	UL1685 UL Loading		
lenum/Non-Plenum			
Plenum (Y/N):	No		
Plenum Number:	88641, 82641		

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 80

Nom. Inductance:

Inductance (µH/ft)
.22

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
22

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
42

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 25

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 14.6

Max. Operating Voltage - UL:

Voltage 300 V RMS (UL AWM Style 2092)

Max. Recommended Current:

Current
2.2 Amps per conductor @ 25°C

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Page 2 of 3 01-06-2012

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8641 Multi-Conductor - Single-Pair Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8641 060U1000	1,000 FT	14.000 LB	CHROME		1 #24 FS PR PE PVC
8641 060U500	500 FT	7.500 LB	CHROME		1 #24 FS PR PE PVC
8641 060100	100 FT	2.000 LB	CHROME		1 #24 FS PR PE PVC
8641 0601000	1,000 FT	14.000 LB	CHROME	С	1 #24 FS PR PE PVC
8641 0602000	2,000 FT	28.000 LB	CHROME	С	1 #24 FS PR PE PVC
8641 060500	500 FT	7.000 LB	CHROME		1 #24 FS PR PE PVC
8641 0605000	5,000 FT	65.000 LB	CHROME		1 #24 FS PR PE PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-18-2008

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

Page 3 of 3 01-06-2012