Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8778 Multi-Conductor - CM Rated Cable

For more Information please call

1-800-Belden1



Description:

22 AWG stranded (7x30) tinned copper conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

Physical Characteristics (Overall)

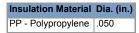
Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
6	22	7x30	TC - Tinned Copper	.030

Insulation

Insulation Material:



Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Material Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.352 in.

Pair

Pair Color Code Chart:

Number	Color		
1	Black & Red		
2	Black & White		
3	Black & Green		
4	Black & Blue		
5	Black & Yellow		
6	Black & Brown		

Pair Lay Length & Direction:

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Lay Length (in.)	Twists/ft. (twist/ft)		
1.750	6.850		

Ma	Machanical Characteristics (Overall)				
we	chanical Characteristics (Overall)				
	Operating Temperature Range:	-20°C To +80°C			
	UL Temperature Rating:	80°C (UL AWM Style 2919)			
	Bulk Cable Weight:	74.300 lbs/1000 ft.			
	Max. Recommended Pulling Tension:	157 lbs.			
	Min. Bend Radius (Install)/Minor Axis:	3.500 in.			
Apı	olicable Specifications and Agency Com	pliance (Overall)			
	plicable Standards & Environmental Progran	·			
	NEC/(UL) Specification:	CM			
	CEC/C(UL) Specification:	CM			
	AWM Specification:	UL Style 2919 (30 V 80°C)			
	EU CE Mark:	Yes			
	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			
Flame Test					
	UL Flame Test:	UL1685 UL Loading			
Ple	enum/Non-Plenum				
	Plenum (Y/N):	No			
	Non-Plenum Number:	88778, 87778, 82778			

Electrical Characteristics (Overall)

Nom.	Characteristic Impedance:
140111.	Onaracteristic impedance.

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/ft) 0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
55

Nominal Velocity of Propagation:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 15

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Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

10.600 Ohm/1000 ft

Max. Operating Voltage - UL:

Voltage

30 V RMS (UL AWM Style 2919) 300 V RMS (CM)

Max. Recommended Current:

Current

2 Amps per conductor @ 25°C

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8778 060100	100 FT	7.900 LB	CHROME		6 FS PR #22 PP PVC
8778 0601000	1,000 FT	78.000 LB	CHROME	С	6 FS PR #22 PP PVC
8778 060250	250 FT	19.500 LB	CHROME	С	6 FS PR #22 PP PVC
8778 060500	500 FT	40.000 LB	CHROME	С	6 FS PR #22 PP PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 04-18-2008

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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.

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