Detailed Specifications & Technical Data

METRIC 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. (mm)
6	22	7x30	TC - Tinned Copper	0.762

Insulation

Insulation Material:

Insulation Material	, ,
PP - Polypropylene	1.27

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:

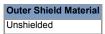
AWG 22

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 8.941 mm

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 (mm)	Twists/ft. (twist/m)		
44.449825	22.475		

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Mechanical Characteristics (Overall)					
Operating Temperature Range:	-20°C To +80°C				
UL Temperature Rating:	80°C (UL AWM Style 2919)				
Bulk Cable Weight:	110.573 Kg/Km				
Max. Recommended Pulling Tension:	698.367 N				
Min. Bend Radius (Install)/Minor Axis:	88.900 mm				
Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Progra	ams				
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				

Yes

Yes

Yes

Yes

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Non-Plenum Number: 88778, 87778, 82778

Electrical Characteristics (Overall)

EU Directive 2002/96/EC (WEEE):

CA Prop 65 (CJ for Wire & Cable):

EU Directive 2003/11/EC (BFR):

MII Order #39 (China RoHS):

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/m) 0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 180.455

Nominal Velocity of Propagation:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 49.215

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

34.779 Ohm/km

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	30 MT	3.583 KG	CHROME		6 FS PR #22 PP PVC
8778 0601000	305 MT	35.380 KG	CHROME	С	6 FS PR #22 PP PVC
8778 060250	76 MT	8.845 KG	CHROME	С	6 FS PR #22 PP PVC
8778 060500	152 MT	18.144 KG	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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