Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8778 Multi-Conductor - CM Rated Cable

For more Information please call

1-800-Belden1



General 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

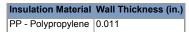
AWG:

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

Total Number of Conductors: 12

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:

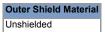


Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.034

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

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Pair Lay Length & Direction:

Lay Length (in.)	Twists (twist/ft)	Direction	
1.750	6.900	Left Hand	

Mechanical Characteristics (Overall)				
Operating Temperature Range:	-20°C To +80°C			
UL Temperature Rating:	80°C (UL AWM Style 2919)			
Bulk Cable Weight:	70 lbs/1000 ft.			
Max. Recommended Pulling Tension:	157 lbs.			

Min. Bend Radius/Minor Axis: 3.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
NEC Articles:	800
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°C)
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
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
ame Test	
III Flows Took	LII 1605 LII Looding

Fla

	UL Flame Test:	UL1685 UL Loading
	CSA Flame Test:	FT1
Su	itability	
	Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Non-Plenum Number: 88778, 87778, 82778

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

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Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20

10.600 Ohm/1000 ft

Deg. C:

Max. Operating Voltage - UL:

Voltage	Description		
300V RMS	UL type CM		
30V RMS	UL AWM 2919		

Max. Recommended Current:

Description		Current			
	10C Temperature Rise	2 Amps per conductor @ 25°C ambient			

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
8778 0605000	5,000 FT	415.000 LB	CHROME		6 FS PR #22 PP PVC

Notes:

C = CRATE REEL PUT-UP.

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