Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9768 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.)
12	22	7x30	TC - Tinned Copper	.030

Insulation

Insulation Material:

Insulation Material	٠,,
PP - Polypropylene	.050

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: 0.464 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
7	Black & Orange
8	Red & White

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9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown

Pair Lay Length & Direction:

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

Me	Mechanical Characteristics (Overall)				
	Operating Temperature Range:	-20°C To +80°C			
	UL Temperature Rating:	80°C (UL AWM Style 2919)			
	Bulk Cable Weight:	136.200 lbs/1000 ft.			
	Max. Recommended Pulling Tension:	320 lbs.			
	Min. Bend Radius (Install)/Minor Axis:	4.600 in.			
Ap	plicable Specifications and Agency Com	pliance (Overall)			
Ap	plicable Standards & Environmental Program	ns			
	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			

No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Plenum/Non-Plenum Plenum (Y/N):

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

1.4 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
9768 060100	100 FT	13.900 LB	CHROME	С	12 FS PR #22 HDPE PVC
9768 0601000	1,000 FT	132.000 LB	CHROME	С	12 FS PR #22 HDPE PVC
9768 060250	250 FT	34.500 LB	CHROME		12 FS PR #22 HDPE PVC
9768 060500	500 FT	69.500 LB	CHROME	С	12 FS PR #22 HDPE PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-17-2008

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