Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9873 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information please call

1-800-Belden1



General Description:

20 AWG stranded (7x28) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, overall PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
3	20	7x28	TC - Tinned Copper

Total Number of Conductors: 6

Insulation

Insulation Material:

Insulation Material Wall Thickness (mm) PP - Polypropylene | 0.381

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: 19x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

Overall Cable

Overall Nominal Diameter: 8.661 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)	Direction
44.450	22.639	Left Hand

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2919)	

Page 1 of 3 01-30-2019

Detailed Specifications & Technical Data





9873 Multi-Conductor - Audio, Control and Instrumentation Cable

Bulk Cable Weight:	84.827 Kg/Km	
Max. Recommended Pulling Tension:	471.509 N	
Min. Bend Radius/Minor Axis:	88.900 mm	

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Applicable Standards & Environmental Progr NEC/(UL) Specification:	CM
NEC Articles:	800
CEC/C(UL) Specification:	СМ
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
lame Test	
UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

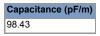
Nom. Characteristic Impedance:

Impedance (Ohm))
50	

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 34.4505

Ind. Pair Nominal Shield DC Resistance @ 20 45.934 Ohm/km Deg. C:

age 2 of 3 01-30-2019

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9873 Multi-Conductor - Audio, Control and Instrumentation Cable

Max. Operating Voltage - UL:

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

Max. Recommended Current:

Description	Current		
10C Temperature Rise	2.7 Amps per conductor @ 25°C ambient		

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9873 060100	100 FT	6.600 LB	CHROME		3 FS PR #20 PP PVC
9873 0601000	1,000 FT	61.000 LB	CHROME	С	3 FS PR #20 PP PVC
9873 060250	250 FT	16.250 LB	CHROME	С	3 FS PR #20 PP PVC
9873 060500	500 FT	32.000 LB	CHROME	С	3 FS PR #20 PP PVC
9873 0605000	5,000 FT	315.000 LB	CHROME		3 FS PR #20 PP PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-06-2013

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Page 3 of 3 01-30-2019