

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	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: 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)

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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

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

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

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)

34.4505

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

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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	C	3 FS PR #20 PP PVC
9873 060250	250 FT	16.250 LB	CHROME	C	3 FS PR #20 PP PVC
9873 060500	500 FT	32.000 LB	CHROME	C	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.

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