

## 8781MN Multi-Conductor - SpaceMaker Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG stranded (19x34) tinned copper conductor, polypropylene insulation, twisted pairs, individually shielded with Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall shielded with Beldfoil® (100% coverage), 22 AWG stranded tinned copper drain wire, overall PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
5	22	19x34	TC - Tinned Copper

Total Number of Conductors: 10

**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (in.)
PP - Polypropylene	0.010

**Inner Shield****Inner Shield Material:**

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

**Inner Shield Drain Wire AWG:**

AWG	Stranding	Conductor Material
24	19x36	TC - Tinned Copper

**Outer Shield****Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
22	19x34	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.016

**Overall Cable**

Overall Nominal Diameter: 0.289 in.

**Pair****Pair Color Code Chart:**

Number	Color
1	Black & White
2	Red & Dark Green
3	Brown & Dark Blue
4	Orange & Yellow
5	Purple & Gray

## 8781MN Multi-Conductor - SpaceMaker Audio, Control and Instrumentation Cable

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
Bulk Cable Weight:	57 lbs/1000 ft.
Max. Recommended Pulling Tension:	51 lbs.
Min. Bend/Installation:	1.160 in.
Min. Bend Radius (Continuous Flexing):	2.890 in.
Flex Cycle Rating:	1 Million Flexes

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC Articles:	800
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
Other Specification:	UL Style AWM 2937 (300V 80C), NFPA 79

## Flame Test

CSA Flame Test:	FT2
-----------------	-----

## Suitability

Suitability - Indoor:	Yes
-----------------------	-----

## Electrical Characteristics (Overall)

## Nom. Inductance:

Inductance (μH/ft)
0.18

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
62.700

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
33.000

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.900

## Max. Operating Voltage - UL:

Voltage
300V RMS

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8781MN 004100	100 FT	6.700 LB	YELLOW		5 FS PR #22 PO FS PVC
8781MN 0041000	1,000 FT	56.000 LB	YELLOW		5 FS PR #22 PO FS PVC

## 8781MN Multi-Conductor - SpaceMaker Audio, Control and Instrumentation Cable

8781MN 006100	100 FT	6.700 LB	BLUE, LIGHT	5 FS PR #22 PO FS PVC
8781MN 0061000	1,000 FT	56.000 LB	BLUE, LIGHT	5 FS PR #22 PO FS PVC
8781MN 008100	100 FT	6.700 LB	GRAY	5 FS PR #22 PO FS PVC
8781MN 0081000	1,000 FT	56.000 LB	GRAY	5 FS PR #22 PO FS PVC

Revision Number: 0    Revision Date: 12-07-2016

© 2020 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[8781MN 004100](#) [8781MN 0061000](#)