# **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION

### 8771MN Multi-Conductor - SpaceMaker Audio, Control and Instrumentation Cable



For more Information please call

1-800-Belden1



#### **General Description:**

22 AWG stranded (19x34) tinned copper conductors, conductors cabled, polypropylene insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)	
Conductor AWG:	
# Conductors AWG Stranding Conductor Material	
3 22 19x34 TC - Tinned Copper	
Total Number of Conductors:	3
Insulation	
Insulation Material:	
Insulation Material Wall Thickness (mm)	
PP - Polypropylene 0.254	
Outer Shield	
Outer Shield Material:	
Outer Shield Drain Wire AWG:	
AWG         Stranding         Drain Wire Conductor Material           24         19x36         TC - Tinned Copper	
24 19x36 IC - Tillied Copper	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 0.406	
Overall Cable	
Overall Cabling Color Code Chart:	
Number Color	
1 Black 2 White	
3 Red	
Overall Nominal Diameter:	3.658 mm
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +80°C
Bulk Cable Weight:	32.740 Kg/Km
Max. Recommended Pulling Tension:	66.723 N
Min. Bend/Installation:	14.732 mm
Min. Bend Radius (Continuous Flexing):	36.576 mm
Flex Cycle Rating:	1 Million Flexes
Applicable Specifications and Agency Compliance (	Overall)
Applicable Standards & 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

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EV ReNS Compliance Date (mmddyyyy):       01/01/2004         EV Directive 2002/96/EC (WEEE):       Yes         EV Directive 2003/91/EC (BFR):       Yes         CA Prog 6C for Wire A Cable):       Yes         Min Order #39 (China RoHS):       UL Style AIWM 2037 (300V 80C), NFPA 70         Flame Test:       Stability         Suitability - Indicon:       Yes         Portum/Non-Plenum       Yes         Plenum YMDi;       No         Electrical Characetristics (Doverall):       No         Electrical Characetristics (Doverall):       No         Non-Characetristics (Doverall):       No         Indicatance (Difference):       No <tr< th=""><th></th><th></th></tr<>					
EU Directive 2003/11/EC (BFR):     Yes       CA Prop 65 (CJ for Wire & Cabio):     Yes       Mill Order #39 (China ROHS):     Ves       Other Specification:     UL Style AWM 2837 (300V 80C), NFPA 79       Flame Test     Face Second Secon	EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004			
CA Prop 65 (CJ for Wire & Cabile):     Yes       Mill Order #339 (China RoHS):     Yes       Other Specification:     UL Style AVWI 2937 (300V 80C), NFPA 79       Flame Test     FIZ       Suitability     Yes       Buitability     Yes       Plenum/Non-Plenum     Yes       Plenum (YN):     No       Electrical Characteristic (Overall)     No       Non. Characteristic impedance:     Inductance (Minn)       0.102     Non. Separateristic impedance:       Statability:     Sapesitance Software       215.546     Non. Separatina (Sfirm)       Non. Capacitance Conductor to Conductor:     Sapesitance Software       Capacitance Software     Sapesitance:       DCR @ 20*C (Chinkim)     No       Xasor     Sapesitance Lonductor to Conductor:       Sapesitance Software     Sapesitance Software       Max: Operating Voltage - UL::     Voltage       Voltage     20V RMS	EU Directive 2002/96/EC (WEEE):	Yes			
MI Order #39 (China RoHS):       Yes         Other Specification:       UL Skyle AVMA 2937 (300V 60C), NFPA 79         Flame Test       F12         Suitability       F12         Suitability - Indoor:       Yes         Plenum (Vn):       Yes         Plenum (Vn):       No         Electrical Characteristics (Overall)       No         Nom. Characteristic (Noms)       Z2         Nom. Capacitance (Pfin)       Yes         Vascitance (pfin)       Yes         Nom. Capacitance Conductor to Shield:       Sagacitance (pfin)         Zazatiance (pfin)       Yes         Nom. Capacitance Conductor to Conductor:       Sagacitance (pfin)         Zazatiance (pfin)       Yes         Nom. Capacitance Conductor to Conductor:       Sagacitance (pfin)         Zazatiance (pfin)       Yes         Nom. Capacitance Conductor to Conductor:       Sagacitance (pfin)         Zazatiance (pfin)       Sagacitance (pfin)         Nom. Capacitance (pfin)       Yes         Yes       Yes         Nom. Capacitance (pfin)       Yes         Yes       Yes         Nom. Capacitance (pfin)       Yes         Yes       Yes         Nom. Conductor DC Resistance:	EU Directive 2003/11/EC (BFR):	Yes			
Other Specification:       UL Style AVM 2937 (300V 80C), NFPA 79         Flame Test       FT2         Skatability       FT2         Suitability       Ves         Plenum (VIN):       Ves         Plenum (VIN):       No         Electrical Characteristics (Overall)       Ves         Nom. Characteristic Inpedance:       Ves         Tolarance (Ohms)       22         Nom. Inductance (µHm)       Ves         Nom. Capacitance (pFm)       Ves         Nom. Capacitance (pFm)       Ves         Nom. Capacitance (of Min)       216.54         Nom. Capacitance (pFm)       Ves         Nom. Capacitance (pFm)       Ves         Nom. Capacitance (pFm)       Ves         Nom. Capacitance (Pfm)       Ves         Yes       Ves         Nom. Conductor to Conductor:       Capacitance (pFm)         Nom. Conductor DC Resistance:       Ves         Mas. Operating Voltage - UL:       Voltage         Nom. Soution Strate       Ves         Soution Strate       Ves	CA Prop 65 (CJ for Wire & Cable):	Yes			
Flame Test       FT2         Suitability       suitability         Suitability       Yes         Plenum/Non-Plenum       Plenum (/iN):         Plenum (/iN):       No         Electrical Characteristics (Overall)       No         Nom. characteristic Impedance:       Tolerance (Omis)         22       Nom. Inductance:         Inductance (µi/m)       .102         Nom. Capacitance (µi/m)       .102         Nom. Capacitance (pf/m)          216.546          Nom. Capacitance (pf/m)          108.273          Nom. Conductor to Conductor:          Capacitance (pf/m)          108.273          Nom. Conductor to Conductor:          Capacitance (pf/m)          108.273          Nac. Operating Voltage - UL:          Voltage          300 V RMS	MII Order #39 (China RoHS):	Yes			
CSA Flame Test:       F12         Suitability       Indoor:         Suitability - Indoor:       Yes         Plenum/Non-Plenum       No         Plenum (YN):       No         Electrical Characteristics (Overal)       No         Nom. Characteristic Impedance:       Impedance (Philing)         22       Nom. Inductance (Philing)         Nom. Capacitance Combisid:       Impedance (Philing)         0.102       Nom. Capacitance Conductor to Shield:         Capacitance (Philing)       Inductance (Philing)         Nom. Capacitance Conductor to Conductor:       Capacitance (Philing)         108.273       Nom. Conductor to Conductor:         Max: Operating Voltage - UL:       Voltage of Columning)         Max: Operating Voltage - UL:       Voltage of Columning)         300 V RMS       Voltage of Columning)	Other Specification:	UL Style AWM 2937 (300V 80C), NFPA 79			
Suitability       Yes         Plenum/Non-Plenum       No         Plenum/Non-Plenum       No         Plenum/Non-Plenum       No         Electrical Characteristics (Overall)       No         Nom. Characteristic (Overall)       No         Nom. Inductance:       Inductance (µHm)         0.102       Nom. Capacitance (µHm)         0.102       Nom. Capacitance (µHm)         10.102       Nom. Capacitance Conductor to Shield:         Capacitance (µFm)       Nom. Capacitance Conductor to Conductor:         Capacitance (µFm)       Nom. Capacitance Conductor to Conductor:         Capacitance (µFm)       Nom. Capacitance Conductor to Conductor:         Max. Operating Voltage - UL:       Voltage         Voltage       300 V RMS	Flame Test				
suitability - Indoor:       Yes         Plenum/Non-Plenum       No         Plenum (YiN):       No         Electrical Characteristics (Overall)       No         Nom. Characteristic Impedance:       Impedance         Inductance (µH/m)       .         0.102       Nom. Capacitance Conductor to Shield:         Capacitance (µH/m)       .         1.02       Nom. Capacitance Conductor to Shield:         Capacitance (µH/m)       .         1.03       .         Nom. Capacitance Conductor to Shield:       .         Capacitance (µH/m)       .         1.02       .         Nom. Capacitance Conductor to Conductor:       .         Capacitance (µH/m)       .         1.03       .         Nom. Capacitance Conductor to Conductor:       .         Capacitance (µH/m)       .         1.04       .         Nom. Conductor DC Conductor:       .         Capacitance (µH/m)       .         1.05       .         Nom. Conductor DC Restance:       .         VOR @20'C (Dhm/km)       .         48.807       .         300 V RMS       .	CSA Flame Test:	FT2			
Plenum/Non-Plenum         No           Plenum (Y/N):         No           Electrical Characteristics (Overall)         Nom. Characteristic Impedance:           Toierance (Ohms)         22           22         Nom. Inductance:           Inductance (µl/m)         0.102           Nom. Capacitance Conductor to Shield:         Capacitance (pl/m)           216.546         Nom. Capacitance Conductor to Conductor:           Capacitance (pf/m)         18.273           Nom. Conductor DC Resistance:         DCR @ 20° C (Ohm/km)           48.887         Max. Operating Voltage - UL:           Voltage         300 V RMS	Suitability				
Plenum (Y/N):       No         Electracteristics (Overall)         Nom. Characteristic Impedance:         Implement (VIM)         22         Nom. Inductance:         Implement (VIM)         0.102         Nom. Capacitance Conductor to Shield:         Capacitance (pF/m)         216.546         Nom. Capacitance Conductor to Conductor:         Capacitance (pF/m)         108.273         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         48.887         Max. Operating Voltage - UL:         Voltage 300 V RMS	Suitability - Indoor:	Yes			
Electrical Characteristics (Overall) Nom. Characteristic Impedance: Tolerance (Ohms) 22 Nom. Inductance: Inductance (µH/m) 0.102 Nom. Capacitance Onductor to Shield: Capacitance OF/m) 216.546 Nom. Capacitance Conductor to Conductor: Capacitance Orf/m) 108.273 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 48.887 Max. Operating Voltage - UL: Voltage 300 V RMS	Plenum/Non-Plenum				
Nom. Characteristic Impedance:   Tolerance (Ohms)   22   Nom. Inductance:   Inductance (µ/m)   0.102   Nom. Capacitance (pF/m)   216.546   Nom. Capacitance Conductor to Conductor:   Capacitance (pF/m)   108.273   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   48.887   Max. Operating Voltage - UL:   Voltage   300 V RMS	Plenum (Y/N):	No			
Nom. Characteristic Impedance:   Tolerance (Ohms)   22   Nom. Inductance:   Inductance (µ/m)   0.102   Nom. Capacitance (pF/m)   216.546   Nom. Capacitance Conductor to Conductor:   Capacitance (pF/m)   108.273   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   48.887   Max. Operating Voltage - UL:   Voltage   300 V RMS	Electrical Characteristics (Overall)				
Tolerance (Ohms)   22   Nom. Inductance:   Inductance (µH/m)   0.102   Nom. Capacitance Conductor to Shield:   Capacitance (pF/m)   216.546   Nom. Capacitance (pF/m)   108.273   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   48.887   Mas: Operating Voltage - UL:   Voltage   300 V RMS					
Inductance (µH/m)   0.102   Nom. Capacitance Conductor to Shield:   Capacitance (pF/m)   216.546   Nom. Capacitance Conductor to Conductor:   Capacitance (pF/m)   108.273   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   48.887   Max. Operating Voltage - UL:   Voltage   300 V RMS	Tolerance (Ohms)				
0.102     Nom. Capacitance Conductor to Shield:     Capacitance (pF/m)   216.546   Nom. Capacitance Conductor to Conductor:   Capacitance (pF/m)   108.273   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   48.887   Max. Operating Voltage - UL:   Voltage   300 V RMS	Nom. Inductance:				
Capacitance (pF/m)         216.546         Nom. Capacitance Conductor to Conductor:         Capacitance (pF/m)         108.273         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         48.887         Max. Operating Voltage - UL:         Voltage         300 V RMS					
216.546         Nom. Capacitance Conductor to Conductor:         Capacitance (pF/m)         108.273         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         48.887         Max. Operating Voltage - UL:         Voltage         300 V RMS	Nom. Capacitance Conductor to Shield:				
Capacitance (pF/m) 108.273 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 48.887 Max. Operating Voltage - UL: Voltage 300 V RMS					
108.273         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         48.887         Max. Operating Voltage - UL:         Voltage         300 V RMS	Nom. Capacitance Conductor to Conductor:				
DCR @ 20°C (Ohm/km) 48.887 Max. Operating Voltage - UL: Voltage 300 V RMS					
48.887 Max. Operating Voltage - UL: Voltage 300 V RMS	Nom. Conductor DC Resistance:				
Voltage 300 V RMS					
Put Ups and Colors:	Voltage				
	Put Ups and Colors:				

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8771MN 004100	100 FT	2.900 LB	YELLOW		3 #22 PO FS PVC
8771MN 0041000	1,000 FT	16.000 LB	YELLOW		3 #22 PO FS PVC
8771MN 006100	100 FT	2.900 LB	BLUE, LIGHT		3 #22 PO FS PVC
8771MN 0061000	1,000 FT	16.000 LB	BLUE, LIGHT		3 #22 PO FS PVC
8771MN 008100	100 FT	2.900 LB	GRAY		3 #22 PO FS PVC
8771MN 0081000	1,000 FT	16.000 LB	GRAY		3 #22 PO FS PVC

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