

## 7787A Coax - Bundled Miniature

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------

### Description:

Miniature, 23 AWG solid .023" bare copper conductors, solid copper, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), overall PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	3
Total Number of Conductors	3
RG Type	Mini
AWG	23
Stranding	Solid
Conductor Diameter	.023 in.
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.102 in.

#### INNER SHIELD:

Inner Shield Material Trade Name	Duofoil®
Inner Shield Type	Tape/Braid

#### Inner Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Inner Shield % Coverage	100 %
-------------------------	-------

#### INNER JACKET:

Inner Jacket Material	PVC - Polyvinyl Chloride
Inner Jacket Diameter	.159 in.

#### Inner Jacket Color Code Chart :

Number	Color
1	Red
2	Green
3	Blue

## 7787A Coax - Bundled Miniature

### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.432 in.
--------------------------	----------

### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-35°C To +75°C
UL Temperature Rating	60°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	81 lbs/1000 ft.
Max. Recommended Pulling Tension	108 lbs.
Min. Bend Radius (Install)	4.5 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

### FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft
---------------	-----------------------

### SWEEP TEST:

Sweep Testing	Sweep tested 5 MHz to 3 GHz.
---------------	------------------------------

### SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suggested Connectors	Kings 2065-11-9 75 Ohm BNC, each coax

### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
--------------	---

### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 +/- 3 Ohms
Nom. Inductance	0.106 µH/ft
Nom. Capacitance Conductor to Shield	16.5 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	20.1 Ohms/1000 ft
Nom. Inner Shield DC Resistance	7.6 Ohms/1000 ft

## 7787A Coax - Bundled Miniature

### Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	850	23
		851	3000	15

### Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			0.4
	3.6			0.8
	10			1.2
	71.5			3.1
	135			3.8
	270			5.4
	360			6.2
	540			7.7
	720			9.1
	750			9.5
	1000			10.5
	1500			13.0
	2500			16.9
	3000			18.5

Max. Operating Voltage - UL

300 V RMS

Other Electrical Characteristic 1

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2

Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7787A B59500	3 #23 PE/GIFHDPE SH PVC PVC	500	47.5	BLACK, MATTE	C
7787A B591000	3 #23 PE/GIFHDPE SH PVC PVC	1000	94	BLACK, MATTE	C

C = CRATE REEL PUT-UP.

Revision Number: 2

Revision Date: 09-08-2006

### 7787A Coax - Bundled Miniature

---

© Copyright 2006 Belden, Inc  
All Rights Reserved.

Although Belden ("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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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 73/23/EEC), as amended by directive 93/68/EEC.