

9913 Coax - 50 Ohm Transmission and Computer Cable

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

Description:

Low Loss RG-8/U type, 10 awg solid .108" bare copper, Duobond II® +90% tinned copper braid shield, semi-solid polyethylene insulation, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	8/U
AWG	10
Stranding	Solid
Conductor Diameter	2.743 " mm
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Semi-Solid PE - Semi-Solid Polyethylene
Insulation Diameter	7.264 mm

OUTER SHIELD:

Outer Shield Type	Tape/Braid
-------------------	------------

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duobond II ®	Tape	Bonded Aluminum Foil- Polyester-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	10.287 mm
--------------------------	-----------

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
Temperature Rating	75°C
Bulk Cable Weight	144.355 Kg/Km
Max. Recommended Pulling Tension	1298.874 N



9913 Coax - 50 Ohm Transmission and Computer Cable

Min. Bend Radius (Install)	15.24 cm
----------------------------	----------

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

SUITABILITY:

Suitability - Indoor	Y
Suitability - Outdoor	Y
Suitability - Aerial	Y

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	89913

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	0.194 μ H/m
Nom. Capacitance Conductor to Shield	80.713 pF/m
Nominal Velocity of Propagation	84 %
Nominal Delay	3.937 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	2.953 Ohms/km
Nominal Outer Shield DC Resistance	5.906 Ohms/km

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	5			1.312
	10			1.64
	50			3.281
	100			4.593
	200			5.906
	400			8.531
	700			11.812
	900			13.452
	1000			14.436
	1500			17.717
	1800			19.686
	2000			20.998
	2500			23.951
	3000			26.248
	4000			31.169

Max. Power Rating :



9913 Coax - 50 Ohm Transmission and Computer Cable

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Power Rating (W)
	5			4021
	10			3217
	50			1609
	100			1149
	200			894
	400			619
	700			447
	900			393
	1000			366
	1500			298
	1800			269
	2000			252
	2500			221
	3000			202
	4000			170

Max. Operating Frequency 8.5 GHz

Max. Operating Voltage - Non-UL 600 V RMS

NOTES:

Notes Low Loss

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9913 010100	RG-8/U TYPE COAX	30.48	6.356	BLACK	C
9913 0101000	RG-8/U TYPE COAX	304.8	51.302	BLACK	C
9913 010250	RG-8/U TYPE COAX	76.2	14.188	BLACK	C
9913 010500	RG-8/U TYPE COAX	152.4	25.878	BLACK	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-17-2003

© 2003 Belden Wire & Cable Company
All Rights Reserved.

Although Belden Electronics Division ("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.



9913F7 Coax - 50 Ohm Transmission and Computer Cable

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

Description:

10 AWG stranded (7x19) .108" bare copper conductor, gas-injected foam HDPE insulation, Duobond II ® +95% tinned copper braid shield, Belflex® jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	8/U
AWG	10
Stranding	7x18
Conductor Diameter	2.743 mm
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	7.239 mm

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® II
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

OUTER JACKET:

Outer Jacket Material Trade Name	Belflex®
Outer Jacket Material	PVC Blend - Polyvinyl Chloride Blend

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	10.287 mm
--------------------------	-----------



9913F7 Coax - 50 Ohm Transmission and Computer Cable

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
Non-UL Temperature Rating	80°C
Bulk Cable Weight	139.891 Kg/Km
Max. Recommended Pulling Tension	934.122 N
Min. Bend Radius (Install)	76.2 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suitability - Aerial	Yes

PLENUM/NON-PLENUM:

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

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	51.5 +/- 2 Ohms
Nom. Inductance	0.194 µH/m
Nom. Capacitance Conductor to Shield	73.822 pF/m
Nominal Velocity of Propagation	85 %
Nominal Delay	3.937 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	3.609 Ohms/km
Nominal Outer Shield DC Resistance @ 20°C	5.906 Ohms/km

Maximum VSWR :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum VSWR
		5	2250	1.43:1

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	10			1.969
	50			3.609
	100			4.921
	200			6.562
	400			9.843
	700			13.124
	900			15.421
	1000			16.405
	2000			24.607
	2250			26.248
	3000			32.154
	4000			39.7



9913F7 Coax - 50 Ohm Transmission and Computer Cable

Nom. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Power Rating (W)
	5			3217
	10			2681
	50			1463
	100			1073
	200			805
	400			575
	700			424
	900			366
	1000			350
	1500			278
	1800			252
	2000			237
	2500			210
	3000			188
	4000			157

Max. Operating Voltage - Non-UL 600 V RMS

NOTES:

Notes Low Loss, High Flex

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9913F7 B59100	#10 FHDPE SH PVC	30.48	5.675	BLACK, MATTE	C
9913F7 B591000	#10 FHDPE SH PVC	304.8	47.216	BLACK, MATTE	C
9913F7 B59250	#10 FHDPE SH PVC	76.2	12.599	BLACK, MATTE	C
9913F7 B59500	#10 FHDPE SH PVC	152.4	23.835	BLACK, MATTE	C

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 12-20-2004

© 2003 Belden Wire & Cable Company
All Rights Reserved.

Although Belden Electronics Division ("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.