# **Detailed Specifications & Technical Data**





# 7810WB Coax - RG-8 Type



For more Information please call

1-800-Belden1



# **General Description:**

RG-8 type, 10 AWG solid .108" bare copper-covered aluminum conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), flooded water-resistant polyethylene jacket.

Physical Characteristics (Overall)					
Conductor AWG:					
# Coax AWG Stranding Conductor Material	Dia. (in.)				
1 10 Solid BCCA - Bare Copper Covered Alu	uminum .108				
Total Number of Conductors:	1				
Insulation					
Insulation Material:					
Insulation Material Di Gas-injected FHDPE - Foam High Density Polyethylene .28	a. (in.) 95				
Outer Shield Outer Shield Material:					
Layer # Outer Shield Trade Name Type Outer Shield M	aterial Coverage (%)				
1 Bonded Duofoil® Tape Bonded Aluminu	um Foil-Polyester Tape-Aluminum Foil 100				
2 Braid TC - Tinned Cop	oper 95				
Outer Shield Flooding Grease:	PO - Polyolefin				
Outer Jacket					
Outer Jacket Material:					
Outer Jacket Material					
PE - Polyethylene					
Overall Cable					
Overall Nominal Diameter:	0.403 in.				
Mechanical Characteristics (Overall)					
Operating Temperature Range:	-40°C To +75°C				
Non-UL Temperature Rating:	80°C				
Bulk Cable Weight:	73 lbs/1000 ft.				
Max. Recommended Pulling Tension:	150 lbs.				
Min. Bend Radius/Minor Axis:	4 in.				
Applicable Specifications and Agency Comp	pliance (Overall)				
Applicable Specifications and Agency Comp Applicable Standards & Environmental Program	· · ·				
EU Directive 2011/65/EU (ROHS II):	Yes				
EU CE Mark:	No				
EU Directive 2000/53/EC (ELV):	Yes				
EU Directive 2002/95/EC (RoHS):	Yes				

# **Detailed Specifications & Technical Data**

ENGLISH MEASUREMENT VERSION

2000

2500

6.0

6.7



# 7810WB Coax - RG-8 Type

Impedance (0hm)         50           Som. Inductance:         Inductance (µH/ft)           0.060         0           Nom. Capacitance Conductor to Shield:         Capacitance (pF/ft)           23.0         0           Nominal Velocity of Propagation:         VP (%)           86         0           Nominal Delay:         Delay (ns/ft)           1.17         0           Nominal Delay:         Delay (ns/ft)           1.34         0           Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)           DAminal Outer Shield DC Resistance:         Derog 20°C (Ohm/1000 ft)           2         0           Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR           5         6000         1.25:1											 	NO 0 I J
EU Directive 2003/11/EC (BFR):         Yes           CA Prop 65 (CJ for Wire & Cable):         Yes           MI Order #39 (China RoHS):         Yes           RG Type:         8/U           Series Type:         RF 400           Suitability - Aurial:         Yes           Venum/Non-Plenum         Plenum (Y/N):           Plenum (Y/N):         No           Iootcrical Charactoristics (Overall)         Ono.           Con. Charactoristic Impedance:         Impedance (Drift)           Goad         Goad         Goad           Consci (Grift)         Goad         Goad           Goad         Goad         Goad	EU RoHS Co	ompliance	e Date (mn	n/dd/yy	уу):	01/01/2004						
CA Prop 85 (CJ for Wire & Cable):         Yes           Mil Order #39 (China RoHS):         Yes           RG Type:         8/U           Sories Type:         8/U           Sories Type:         8/U           Suitability         8/U           Suitability Outdoor:         Yes           Suitability Outdoor:         Yes           Suitability Unial:         Yes           Suitability Unial:         Yes           Plenum/Non-Plenum         Plenum (YN):           No         No           Identification (Identification (I	EU Directive	2002/96/	EC (WEEE	E):		Yes				 	 	
CA Prop 85 (CJ for Wire & Cable):         Yes           Mit Order #39 (China RoHS):         Yes           RG Type:         8/U           Series Type:         RF 400           Suitability         Suitability           Suitability - Outdoor:         Yes           Suitability - Burial:         Yes - When supported by a messenger           Suitability - Burial:         Yes           Plenum/Non-Plenum         Plenum/Non-Plenum           Plenum/Non-Plenum         Plenum (YN):           No         No           tectrical Characteristics (Overall)         Ion           Characteristic Impedance:         Impedance (Ohm)           Ion         Characteristic Impedance:           Impedance (Ohm)         Ion           Ion         Sapacitance Conductor to Shield:           Capacitance Conductor to Shield:         Capacitance Sprint           Ion         Ion           Ion         Ion           Ion         Source Total Core Core Core Core Core Core Core Core	EU Directive	2003/11/	EC (BFR):	:		Yes				 	 	
MI Order #39 (China RoHS):         Yes           RG Type:         8/U           Series Type:         RF 400           Suitability         Suitability - Outdoor:         Yes           Suitability - Outdoor:         Yes           Suitability - Aerial:         Yes - When supported by a messenger           Suitability - Burlat:         Yes           Plenum (YiN):         No           Iterctrical Characteristics (Overall)         No           Iom. Characteristic Impedance:         Impedance (off)           geogeneeric (piff)         No           Iom. Capacitance Conductor to Shield:         Segoecance (piff)           Iom. Capacitance Conductor to Shield:         Segoecance (piff)           Iom. Capacitance Conductor to Shield:         Segoecance (piff)           Iom. Conductor DC Resistance:         Segoecance (piff)           Iom. Conductor DC Resistance:         Segoecance (piff)           Iom. Conductor DC Resistance:         Segoecance (piff)           Iom. Attraction (IM2)         Iom (IM2)           Iom. Conductor DC Resistance:         Segoecance (piff)           Iom. Conductor DC Resistance:         Segoecance (piff)           Iom. Attractability = Segoecance (piff)         Iom (IM2)           Iom. Attruation:         Segoecance (piff)     <						Yes					 	
RG Type:         B/U           Series Type:         RF 400           Suitability         Outdoor:         Yes           Suitability - Aerial:         Yes           Suitability - Aerial:         Yes           Suitability - Aerial:         Yes           Suitability - Burlat:         Yes           Yes         Yes           Suitability - Burlat:         Yes           Plenum (YN)         No           Plenum (YN)         No           Identifications (Inff)         No           Soutability - Aerial:         Yes           Venum/Non-Plenum         Plenum (YN)           Plenum (YN)         No           Identifications (Inff)         Identifications (Inff)           Identifications (Inff)         Identifications (Inff)           Identifications (Inff)         Identifications (Inff)           Identification (Identifications (Inff)<		-									 	
Series Type:         RF 400           Suitability         Suitability           Suitability         Ves           Suitability - Acrial:         Yes           Suitability - Aurial:         Yes           Suitability - Aurial:         Yes           Plenum/Non-Plenum         Plenum (YN):         No           Plenum/Non-Plenum         No         No           Control Characteristics (Overall)         No         No           Non. Characteristic Impedance:         Impedance (Drift)         No           Non. Capacitance (Prift)         No         No         No           Impedance (Drift)         No         No         No         No           Impedance (Drift)         No         No         No         No         No           Impedance (Drift)         No											 	
Suitability         Yes           Suitability - Aurial:         Yes - When supported by a messenger           Suitability - Burial:         Yes           Burnow (YiN):         Yes           Plenum (YiN):         No           Incompetence (With)         No           Inductance:         Impedance (With)           Consol         Suitability - Burial:           Yes         Yes           Inductance (With)         No           Inductance (With)         Consol           Zano         Yes           Zano         Yes           Inductance (With)         Consol           Zano         Yes           Zano         Yes           Suitability of Propagation:         Yes           Ye (%)         So           Boal (nsit)         So           Consol Delay (nsit)         So           So (Convictoo T)         So           1:17         So           Concloser Conductor DC Resistance:         Cocsol           Coc (Convictoo T)         So           1:34         So         So           Coc (Convictoo T)         So           1:34         So         So           So											 	
Suitability - Outdoor:         Yes           Suitability - Aoriai:         Yes - When supported by a messenger           Suitability - Buriai:         Yes           Plenum (YiN):         No           Impediance (Drm)         No           Suitability - Buriai:         No           Impediance (Drm)         Suitability - Buriai:           Suitability - Buriai:         No           Impediance (Drm)         Suitability - Buriai:           Suitability - Buriai:         No           Suitability - Buriai:         Suitability - Buriai:		:				RF 400					 	
Suitability - Aerial:         Yes         When supported by a messenger           Suitability - Burial:         Yes           Venum/Non-Plenum         Plenum (YIN):         No             Plenum (YIN):         No             etectrical Characteristics (Overall)             bonom. Characteristic Impedance:             modance (plfft)             solution:             Modelance:             modance (plfft)             solution:             version:             version: <td< td=""><td></td><td><b>.</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		<b>.</b>										
Suitability - Burial:         Yes           Plenum/Non-Plenum         No           Plenum(YIN):         No           locatical Characteristics (Overall)         Image: Comparison of the second of the s										 	 	
Denum (YiN):         No           Identical Characteristics (Overall)         Identical Characteristics (Overall)           Identical Characteristical Characteristics (Overall)         Identical							upported by	y a mess	senger		 	
Plenum (Y/N):         No           Identical Claracteristic Impedance:         Impedance (Othing)           Identical Claracteristical Claracteristical Claracterical Claracteristical Claracteristical Claracteristical Claracte						Yes					 	
Decention         Characteristics (Overall)           iom. Characteristic Impedance:         Impedance (Ohm)           30         30           iom. Inductance (uHf)         0.000           iom. Characteristics (Overall)         0.000           iom. Characteristics (Overall)         0.000           iom. Inductance (uHf)         0.000           iom. Capacitance Conductor to Shield:         Capacitance (pFft)           iom. Conductor DC Propagation:         VP (%)           iom. Conductor DC Resistance:         Decentration (use)           DCR @ 20°C (Ohm/1000 ft)         1.34           iom. Adductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)           i.34         1.34           Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR           is         1.000           is         1.26:1												
Impedance (Ohm)         90         50m. Inductance:         Inductance (uH/ft)         0.060         80m. Capacitance Conductor to Shield:         Capacitance (pF/ft)         23.0         Sominal Velocity of Propagation:         VP (%)         86         Sominal Delay:         Delay (rstft)         1.17         Som. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Sominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Sominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Sominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Astimut VSWR:         Description Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       0000         1.25:1         Non. Attenuation (dB/f00 ft)         30       0.7         30       0.7         30       0.7         30       0.7         30       0.7         30       0.7         30       0.7	Plenum (Y/N	i):				No					 	
Nom. Characteristic Impedance:         Impedance (ohm)         5         0.000         Nom. Capacitance (pf/ft)         2.0         2.0         Some         Vominal Velocity of Propagation:         VP (%)         66         Nom. Capacitance (pf/ft)         2.0         Vominal Velocity of Propagation:         VP (%)         66         Nominal Delay:         Delay (nsfft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Nom. Attenuation (dB/100 ft)         30       0.7         30       0.7         30       0.7         30       0.7         30       0.7         30       0.7         30       0.7         30       <	lectrical Cha	ractoric	stics (Ov	(erall)								
impedance (Ohm)         50         Nom. Inductance:         inductance (gHft)         0.660         Nom. Capacitance Conductor to Shield::         Capacitance (pFft)         23.0         Nominal Velocity of Propagation:         VF (%)         8         Delay (nsft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         State Freq. (MHz) State Freq. (MHz) Max. VSWR         0 = 6000       1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (B/100 ft)         15       0.0         120       1.8         150       1.5         150       1.8				(Ji dil)								
50         ion Inductance:         inductance (uHft)         0.000         ion Capacitance Conductor to Shield:         Capacitance (pFff)         23.0         ioninal Velocity of Propagation:         VP (%)         06         Joninal Delay:         Delay (ms/ft)         1.17         ion Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Dominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         ioninal NSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         ion			uance.									
Image: Second		m)										
Inductance (µH/ff)         0.060         Som. Capacitance (pF/fi)         3.0         VP (%)         86         Jominal Velocity of Propagation:         VP (%)         86         Jominal Delay:         Delay (ns/ft)         1.17         Som. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Sominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)	50											
Inductance (µH/f)         0.060         Vom. Capacitance (pF/fi)         23.0         Nominal Velocity of Propagation:         VF (%)         Nominal Delay:         Delay (ns/fi)         1.17         Nominal Outer DC Resistance:         DER @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DER @ 20°C (Ohm/1000 ft)         2         Nominal Outer Shield DC Resistance:         DER @ 20°C (Ohm/1000 ft)         2         Notation:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attanuation (dB/100 ft)         1.5         20.1         1.5         20.1         1.5         20.1         1.5         20.1         1.5         20.1         1.5         20.1         1.5         20.1         1.5         20.1         1.5         20.1	Nom. Inductance	a:										
0.000         Nom: Capacitance Conductor to Shield:         Capacitance (pF/fil)         23.0         Nominal Velocity of Propagation:         VP (%)         86         Nominal Delay:         Delay (ns/fil)         1.17         Nom: Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Waximum VSWR:         Description Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation         Freq. (MHz) Attenuation (dB/100 ft.)         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
Capacitance Conductor to Shield:         Capacitance (pF/ft)         23.0         Nominal Velocity of Propagation:         VP (%)         Nominal Delay:         Delay (ns/ft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20° (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20° (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         1.5       0.9         1.5       1.5         220       1.8         450       2.7         900       3.8         1500       5.1		11)										
23.0         Nominal Velocity of Propagation:         VP (%) 86         Nominal Delay:         Delay (nsift)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         5       000         150       1.5         202       1.8         450       2.7         300       3.8         1500       5.1	0.060											
23.0         Nominal Velocity of Propagation:         VP (%) 86         Nominal Delay:         Delay (ns/ft) 1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Sominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Sominal Outer Shield DC Resistance:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         Somo       1.25:1         Nom: Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         5       000         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	Nom. Capacitano	ce Condu	ctor to Sh	ield:								
23.0         Nominal Velocity of Propagation:         VP (%) 86         Nominal Delay:         Delay (ns/ft) 1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Sominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Sominal Outer Shield DC Resistance:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         Somo       1.25:1         Nom: Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         5       000         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	Capacitance (pl	F/ft)										
VP (%)         86         Nominal Delay:         Delay (ns/ft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
VP (%) 86         Nominal Delay:         Delay (ns/ft) 1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft) 2         Xomman Outer Shield DC Resistance:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         6       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
86         Nominal Delay:         Delay (ns/ft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation         Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation         1600         1.5       200         1.6       27         1.5       200         1.6       2.7         900       3.8         1500       5.1		/ of Propa	agation:									
Delay (ns/ft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	VP (%)											
Delay (ns/ft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	86											
Delay (ns/ft)         1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description       Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	Nominal Delay:											
1.17         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000         1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	-											
Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description       Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000       1.25:1         Nom. Attenuation:       Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
DCR @ 20°C (Ohm/1000 ft)         1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         6000       1.25:1         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	1.17											
1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000       1.25:1         Norm. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	Nom. Conductor	DC Resi	stance:									
1.34         Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Max. VSWR         5       6000       1.25:1         Norm. Attenuation:         Freq. (MHz) Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	DCR @ 20°C (O	hm/1000 ft	t)									
DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description       Freq. (MHz)       Start Freq. (MHz)       Max. VSWR         5       6000       1.25:1         Nom. Attenuation       (MHz)       Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1			-									
DCR @ 20°C (Ohm/1000 ft)         2         Maximum VSWR:         Description       Freq. (MHz)       Start Freq. (MHz)       Max. VSWR         5       6000       1.25:1         Nom. Attenuation:       Image: Comparison of the start			 									
2         Maximum VSWR:         Description       Freq. (MHz)       Start       Freq. (MHz)       Max. VSWR         0       5       6000       1.25:1         Nom. Attenuation (dB/100 ft.)         30       0.7       5         50       0.9       150       1.5         150       1.5       220       1.8         450       2.7       900       3.8         1500       5.1       0       0				ce:								
Maximum VSWR:         Description       Freq. (MHz)       Start Freq. (MHz)       Max. VSWR         0       5       6000       1.25:1         Nom. Attenuation:         Freq. (MHz)       Attenuation (dB/100 ft.)         30       0.7	-	hm/1000 ft	.)									
Description       Freq. (MHz)       Start Freq. (MHz)       Stop Freq. (MHz)       Max. VSWR         6000       1.25:1         Nom. Attenuation:       Image: Comparison of the temperature of temperat	2											
5       6000       1.25:1         Nom. Attenuation:       Image: Second	Maximum VSWR	t:										
5       6000       1.25:1         Nom. Attenuation:       Image: Second	Description Fre	a. (MHz) §	Start Freg. (	(MHz) St	op Freg. (MH)	z) Max. VSWR						
Freq. (MHz)       Attenuation (dB/100 ft.)         30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
Freq. (MHz)         Attenuation (dB/100 ft.)           30         0.7           50         0.9           150         1.5           220         1.8           450         2.7           900         3.8           1500         5.1												
30       0.7         50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
50       0.9         150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1	Freq. (MHz) Atte	enuation (	dB/100 ft.)									
150       1.5         220       1.8         450       2.7         900       3.8         1500       5.1												
220     1.8       450     2.7       900     3.8       1500     5.1	30 0.7											
450         2.7           900         3.8           1500         5.1												
450         2.7           900         3.8           1500         5.1	50 0.9											
900         3.8           1500         5.1	500.91501.5											
1500 5.1	500.91501.52201.8											
	50         0.9           150         1.5           220         1.8           450         2.7	·										
	50         0.9           150         1.5           220         1.8           450         2.7           900         3.8	 										

# **Detailed Specifications & Technical Data**

### ENGLISH MEASUREMENT VERSION



### 7810WB Coax - RG-8 Type

Ì	3000	7.5
	3000	7.5
	3500	8.2
	4500	9.5
	5800	11.1
	6000	11.4
	0000	11.4

#### Max. Power Rating:

Freq. (MHz)	Rating (W)
30	3427
50	2588
150	1428
220	1195
450	817
900	575
1500	437
1800	399
2000	375
2500	334
3000	305
3500	282
4500	247
5800	217
6000	213

#### Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

### Sweep Test

Sweep Testing:

100% Sweep tested to 6 GHz.

### **Misc. Information (Overall)**

#### Notes (Overall)

Notes: 100% Sweep tested. 6 GHz. Belden® The Wire in Wireless®

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7810WB 0101000	1,000 FT	82.000 LB	BLACK	С	RF400 WIRELESS 50 OHM COAX WB
7810WB 010500	500 FT	40.500 LB	BLACK	С	RF400 WIRELESS 50 OHM COAX WB

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 10-17-2012

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