



### **Description:**

10 AWG solid .108" bare copper-covered aluminum conductor, gas-injected foam HDPE insulation, Duobond® II and a 95% tinned copper braid shield, polyethylene jacket.

### **PHYSICAL CHARACTERISTICS:**

## CONDUCTOR:

Layer Number	Trade Name	Туре	Material	% Coverage (%)	
Outer Shield Material :					
Outer Shield Type		Tape/Braid			
Outer Shield Material Trade Name		Duobond® II			
OUTER SHIELD:					
Insulation Diameter		.285 in.			
Insulation Material		Gas-injected FHDPE - Foam High Density Polyethylene			
INSULATION:					
Conductor Material		BCCA - Bare Copper Clad Aluminum			
Conductor Diameter		.108 in.			
Stranding		Solid			
AWG		10			
Series Type		RF 400			
RG Type		8/U			
Total Number of Conductors	5	1			
Number of Coax		1			

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

### **OUTER JACKET:**

Outer Jacket Material	PE - Polyethylene
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	.403 in.
MECHANICAL CHARACTERISTICS:	
Operating Temperature Range	-40°C To +75°C



Bulk Cable Weight		77 lbs/1000 ft.				
Max. Recommended Pulling Tension		150 lbs.				
Min. Bend Radius (Install)		4 in.				
APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:						
SUITABILITY:						
Suitability - Outdoor		Yes				
Suitability - Aerial		Yes - When supported by a	messenger			
Suggested Connectors		Mates with 9913 and Land	Mobile Radio type connector	rs.		
PLENUM/NON-PLENUM	1:					
Plenum (Y/N)		Ν				
ELECTRICAL CHARAC	TERISTICS:					
Nom. Characteristic Impeda	nce	50 Ohms				
Nom. Inductance		0.060 µH/ft				
Nom. Capacitance Conducto	or to Shield	23.0 pF/ft				
Nominal Velocity of Propag	ation	86 %				
Nominal Delay		1.17 ns/ft				
Nom. Conductor DC Resista	nce @ 20 Deg. C	1.34 Ohms/1000 ft				
Nominal Outer Shield DC R	esistance @ 20°C	2.8 Ohms/1000 ft				
Maximum VSWR :						
Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum VSWR		
		5	6000	1.25:1		
Nom. Attenuation :						
Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	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		
	1800			5.6		
	2000			6.0		
2500				0./		
	3500			1.5		
	4500			0.2		
	5800			11.1		
	5000			11.1		
	6000			1114		

Max. Attenuation :



Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	30			0.70
	50			0.93
	150			1.58
	220			1.94
	450			2.83
	900			4.06
	1500			5.32
	1800			5.98
	2000			6.35
	2500			7.08
	3000			7.97
	3500			8.80
	4500			10.23
	5800			12.00
	6000			12.23

#### Max. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Power 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

300 V RMS

### NOTES:

Notes

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

## PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7810A 0101000	RF400 WIRELESS 50 OHM COAX PE	1000	79	BLACK	С
7810A 010500	RF400 WIRELESS 50 OHM COAX PE	500	39	BLACK	С



C = CRATE REEL PUT-UP.

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