# **Detailed Specifications & Technical Data**





### 1840A Coax - Series 6


For more Information please call

1-800-Belden1



### **General Description:**

Series 6, 18 AWG solid .040" bare copper or bare copper-covered steel conductor (see below), gas-injected foam polyethylene insulation, Duobond® II + AL braid shield (60% coverage), PVC jacket.

Physical Characteristics (Overall)	
Conductor AWG:	
# Coax AWG Stranding Conductor Material Dia.	in.)
2 18 Solid BCCS - Bare Copper Covered Steel 0.040	
Total Number of Conductors:	2
Corrosion Resistance:	Yes
Insulation	
Insulation Material: Insulation Material Dia. (in.)	
Gas-injected FPE - Foam Polyethylene .180	
Static Ground	
Static Ground:	BCCS - Bare Copper Covered Steel
Static Ground Diameter:	0.045 in.
Outer Shield	
Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material	Coverage (%)
1 Bonded Duofoil® Tape Bonded Aluminum Foil-Po	
2 Braid AL - Aluminum	60
Outer Jacket Material: Outer Jacket Material PVC - Polyvinyl Chloride	
Overall Cable	
Overall Nominal Diameter:	0.273 x 0.703 in.
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	69 lbs/1000 ft.
Max. Recommended Pulling Tension:	195 lbs.
Min. Bend Radius/Minor Axis:	3 in.
Applicable Specifications and Agency Compliance (O	verall)
Applicable Standards & Environmental Programs	
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
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

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ENGLISH MEASUREMENT VERSION



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Delay (ns/ft)           1.2           Deminal Delay:           Delay (ns/ft)           1.2           Dominal Outer Sh           DCR @ 20°C (fg)           55           1.2           DOR @ 20°C (fg)           55           1.2           DOR @ 20°C (fg)           55           1.2           DOR @ 20°C (fg)           55           1.2           DOM           750	): tric Impedance: hm) tric Impedance: hm) e Conductor to Shield: pF/ft) of Propagation: DC Resistance: Ohm/1000 ft) hield DC Resistance:	all)	No			
Operation         Operation           Impedance (OI         75.000           75.000         Impedance (OI           75.000         Inductance           Inductance (µI         .097           Inductance (µI         .097           Immediate (µI         .097           I	Interpretations (Overation interpretations)  Hift  Conductor to Shield:  PF/ft)  of Propagation:  DC Resistance:  Dhm/1000 ft)  hield DC Resistance:	all)	No			
m. Characteris Impedance (OI 75.000 m. Inductance (µi .097 m. Capacitance (µi 16.2 minal Velocity VP (%) 83 minal Delay: Delay (ns/ft) 1.2 m. Conductor I DCR @ 20°C (0 28.0 minal Outer Sh DCR @ 20°C (1 9 m. Attenuation Freq. (MHz) A 5 55 1 211 2 500 4 750 5 862 5 1000 6	tic Impedance: hm) : : : : : : : : : : : : :	all)				
h. Characteris           mpedance (O)           '5.000           h. Inductance:           nductance (µf           097           h. Capacitance (µf           097           h. Capacitance (µf           6.2           ninal Velocity           /P (%)           33           ninal Delay:           Delay (ns/ft)           .2           h. Conductor I           DCR @ 20°C (I           0           h. Attenuation           Freq. (MHz)           5           55           11           25           500           62           5           62           5	tic Impedance: hm) : : : : : : : : : : : : :					
75.000         m. Inductance:         Inductance (µi         .097         m. Capacitance (µi         .097         m. Capacitance (µi         .097         minal Celocity         VP (%)         83         minal Delay:         Delay (ns/ft)         1.2         m. Conductor I         DCR @ 20°C (128.0         minal Outer Sh         DCR @ 20°C (128.0         m. Attenuation         Freq. (MHz)         A         55         1.2         2000         45         55         1.2         2000         4.750         5.862         5.10000	H/ft) e Conductor to Shield: pF/ft) of Propagation: DC Resistance: Ohm/1000 ft) hield DC Resistance:					
n. Inductance: Inductance (µ4 0.097 m. Capacitance (µ4 16.2 minal Velocity VP (%) 83 minal Delay: Delay (ns/ft) 1.2 m. Conductor I DCR @ 20°C (1 28.0 minal Outer Sh DCR @ 20°C (1 9 m. Attenuation Freq. (MHz) A 5 55 1. 211 2. 550 4. 750 5. 862 5.	H/ft) e Conductor to Shield: pF/ft) of Propagation: DC Resistance: Ohm/1000 ft) nield DC Resistance:					
Inductance (µi           .097           Capacitance (µi           16.2           minal Velocity           VP (%)           83           minal Velocity           VP (%)           83           minal Delay:           Delay (ns/ft)           1.2           om. Conductor I           DCR @ 20°C (0           28.0           minal Outer Sh           DCR @ 20°C (10           9           mminal Outer Sh           55           11           211           2500           40           750           5862           510000	H/ft) e Conductor to Shield: pF/ft) of Propagation: DC Resistance: Ohm/1000 ft) nield DC Resistance:					
.097 Capacitance ( 16.2 ominal Velocity VP (%) 83 ominal Delay: Delay (ns/ft) 1.2 DCR @ 20°C ( 28.0 ominal Outer Sh DCR @ 20°C ( 9 om. Attenuation Freq. (MHz) A 5 55 11. 211 2. 500 4. 750 5. 862 5. 1000 6.	e Conductor to Shield: pF/ft) of Propagation: DC Resistance: Ohm/1000 ft) nield DC Resistance:					
m. Capacitance           Capacitance (r           16.2           minal Velocity           VP (%)           83           minal Delay:           Delay (ns/ft)           1.2           Dminal Delay:           Delay (ns/ft)           1.2           DCR @ 20°C (r           28.0           minal Outer Sh           DCR @ 20°C (r           9           mminal Outer Sh           55           11           211           25           500           44           750           55           1000	DC Resistance: DDC Resistance: Dhm/1000 ft)					
Capacitance (r           16.2           minal Velocity           VP (%)           83           ominal Delay:           Delay (ns/ft)           1.2           om. Conductor I           Delay (ns/ft)           1.2           om. Conductor I           DCR @ 20°C (r           28.0           ominal Outer Sh           DCR @ 20°C (r           9           om. Attenuation           Freq. (MHz) A           5           55           11           211           200           44           750           55           1000	DC Resistance: DDC Resistance: Dhm/1000 ft)					
16.2           ominal Velocity           VP (%)           83           ominal Delay:           Delay (ns/ft)           1.2           om. Conductor I           DCR @ 20°C (0           28.0           ominal Outer Sh           DCR @ 20°C (0           9           om. Attenuation           Freq. (MHz) A           5           55           11           211           25           500           4.           750           5.           1000	of Propagation: DC Resistance: Ohm/1000 ft) nield DC Resistance:					
Delay (ns/ft)           1.2           Delay (ns/ft)           1.2           Dominal Delay:           Delay (ns/ft)           1.2           DCR @ 20°C (to 28.0           Dominal Outer Sh           DCR @ 20°C (to 29.0           Dominal Outer Sh           DCR @ 20°C (to 29.0           DCR @ 20°C (to 29.0           DCR @ 20°C (to 29.0           Soon. Attenuation           Freq. (MHz) A           5           55           11           211           25           500           44.           750           55.           1000	DC Resistance: Ohm/1000 ft) iield DC Resistance:					
VP (%)         83           Balance         Balance           Delay (ns/ft)         1.2           Data (ns/ft)         1.2           DCR @ 20°C (l         28.0           Dominal Outer Sh         DCR @ 20°C (l           DCR @ 20°C (l         9           DCR @ 20°C (l         9           DCR @ 20°C (l         5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.	DC Resistance: Ohm/1000 ft) iield DC Resistance:					
VP (%)         83           Balance         Balance           Delay (ns/ft)         1.2           Data (ns/ft)         1.2           DCR @ 20°C (l         28.0           Dominal Outer Sh         DCR @ 20°C (l           DCR @ 20°C (l         9           DCR @ 20°C (l         9           DCR @ 20°C (l         5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.	DC Resistance: Ohm/1000 ft) iield DC Resistance:					
B3           Delay (ns/ft)           1.2           DCR @ 20°C (l           28.0           Dominal Outer Sh           DCR @ 20°C (l           9	Ohm/1000 ft) nield DC Resistance:					
Delay (ns/ft)           1.2           Drm. Conductor I           DCR @ 20°C (f           28.0           Dominal Outer Sh           DCR @ 20°C (f           9           Drm. Attenuation           Freq. (MHz) A           5           55           11           211           25           500           4.           750           5.           1000	Ohm/1000 ft) nield DC Resistance:					
Delay (ns/ft)           1.2           Drm. Conductor I           DCR @ 20°C (f           28.0           Dominal Outer Sh           DCR @ 20°C (f           9           Drm. Attenuation           Freq. (MHz) A           5           55           11           211           25           500           4.           750           5.           1000	Ohm/1000 ft) nield DC Resistance:					
1.2           Dr. Conductor I           28.0           Dominal Outer Sh           DCR @ 20°C (f           9           Dr. Attenuation           Freq. (MHz) A           5           55           11           211           2500           44           750           55           1000	Ohm/1000 ft) nield DC Resistance:					
PCR @ 20°C (           28.0           ominal Outer Sh           DCR @ 20°C (           9           om. Attenuation           Freq. (MHz) A           5           55           11           211           25           500           4.           750           5.           1000	Ohm/1000 ft) nield DC Resistance:					
DCR @ 20°C (t           28.0           pminal Outer Sh           DCR @ 20°C (t           9           pminal Outer Sh           Freq. (MHz) A           5           55           11           211           25           500           4.           750           5.           862           1000	Ohm/1000 ft) nield DC Resistance:					
28.0 DCR @ 20°C (0 9 Treq. (MHz) A 5 55 1. 211 2. 500 4. 750 5. 862 5. 1000 6.	nield DC Resistance:					
minal Outer Sh           DCR @ 20°C (I           9           m. Attenuation           Freq. (MHz)           5           55           1.           211           2.           500           4.           750           5.           862           5.           1000						
DCR @ 20°C (           9           m. Attenuation           Freq. (MHz)           5           55           1.           211           200           4.           750           5.           862           1000						
9           m. Attenuation           Freq. (MHz)         A           5         .5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.	Ohm/1000 ft)					
Freq. (MHz)         A           5         .5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.						
Freq. (MHz)         A           5         .5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.						
Freq. (MHz)         A           5         .5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.						
5         .5           55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.	ttenuation (dB/100 ft.)					
55         1.           211         2.           500         4.           750         5.           862         5.           1000         6.						
211         2.           500         4.           750         5.           862         5.           1000         6.						
750         5.           862         5.           1000         6.	.6					
750 5. 862 5. 1000 6.						
862 5. 1000 6.						
1000 6.	.5					
1450 7.						
	.8					
1800 8.	.6					
2250 9.	.8					
3000 11	1.3					
ax. Attenuation:	:					
Freq. (MHz) A	ttenuation (dB/100 ft.)					
5 0.	.67					
	.60					
1 1	.87					
500 4.	.48					
750 5.	.59					
862 5.	.98					
1000 6.	.54					
1450 8.	.00					
1 1	.80					
2250 10	0.0					
3000 1	1.9					
x. Operating V	oltage - Non-UL:					
Voltage	g					
350 V RMS						
	ral Return Loss:					
	Hz) Stop Freq. (MHz) Mi					
950 2250	2250 15 3000 10					
2250	3000	J				
weep Test						
Sweep Testi	ng:		950 MHz - 3	3 GHz		
It Ups and C					 	

# **Detailed Specifications & Technical Data**

#### ENGLISH MEASUREMENT VERSION



### 1840A Coax - Series 6

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1840A 0101000	1,000 FT	74.000 LB	BLACK	С	2 #18 GIFPE SH PVC W/MSGR
1840A 010500	500 FT	38.000 LB	BLACK	С	2 #18 GIFPE SH PVC W/MSGR

Notes:

#### C = CRATE REEL PUT-UP.

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