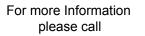
Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1839AC Coax - Series 6



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 plus an aluminum braid shield (60% coverage), PVC jacket.

Physical Characteristics (Overall)			
Conductor AWG:			
# Coax AWG Stranding Conductor Material	Dia. (in.)		
1 18 Solid BCAC - Bare Copper w/Anti-Co	rrosion Treatment 0.040		
Total Number of Conductors:	1		
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			
	inum Foil-Polyester Tape-Aluminum Foil 100		
2 Braid AL - Aluminum	n 60		
Outer Jacket			
Outer Jacket Material:			
Outer Jacket Material PVC - Polyvinyl Chloride			
Overall Cable Overall Nominal Diameter:	0.070 v. 0.405 in		
Overall Nominal Diameter:	0.270 x 0.405 in.		
Mechanical Characteristics (Overall)			
Operating Temperature Range:	-40°C To +80°C		
Non-UL Temperature Rating:	80°C		
Bulk Cable Weight:	42 lbs/1000 ft.		
Max. Recommended Pulling Tension:	160 lbs.		
Min. Bend Radius/Minor Axis:	3 in.		
Applicable Specifications and Agency Com	Applicable Specifications and Agency Compliance (Overall)		
Applicable Standards & Environmental Program			
EU Directive 2011/65/EU (ROHS II):	Yes		
	Ma		

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1839AC Coax - Series 6

Plenum (Y/N):	No
Plenum/Non-Plenum	
Series Type:	Series 6
MII Order #39 (China RoHS):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2000/53/EC (ELV):	Yes

Electrical Characteristics (Overall)



Nom. Inductance:

Inductance (µH/ft) .097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

Nominal Velocity of Propagation:



Nominal Delay:

Delay (ns/ft)

1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	.5
55	1.4
211	2.6
500	4.1
750	5.1
862	5.5
1000	6.0
1450	7.8
1800	8.6
2250	9.8
3000	11.3

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.67
55	1.60
211	2.87
500	4.48

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



1839AC Coax - Series 6

750	5.59	
862	5.98	
1000	6.54	
1450	8.00	
1800	8.80	
2250	10.0	
3000	11.9	

Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
950	2250	15
2250	3000	10

Sweep Test

Sweep Testing:

950 MHz - 3 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1839AC 0081000	1,000 FT	45.000 LB	GRAY	С	#18 PE/GIFPE SH PVC W/MSGR
1839AC 0101000	1,000 FT	45.000 LB	BLACK	С	#18 PE/GIFPE SH PVC W/MSGR

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-25-2012

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