Part Number: 1865A

Serial Digital Coax, Sub-miniature, #25 Stranded BC, CMR



Product Description

25 AWG stranded (19x37) .021" bare copper conductor, gas-injected foam HDPE insulation, Duofoil®; tinned copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Riser

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	19x37	BC - Bare Copper	0.021 in	1

Conductor Count:	1
Conductor Size:	25 AWG

Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.094 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.15 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
27.4 Ohm/1000ft	27.4 Ohm/1000ft	5.4 Ohm/1000ft	5.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.5 pF/ft

Inductance

Nominal Inductance
0.093 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-850 MHz	21 dB
850-3000 MHz	18 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.47 dB/100ft
3.58 MHz	1 dB/100ft
5 MHz	1.1 dB/100ft
7 MHz	1.3 dB/100ft
10 MHz	1.6 dB/100ft
67.5 MHz	3.6 dB/100ft
71.5 MHz	3.7 dB/100ft
88.5 MHz	4.1 dB/100ft
100 MHz	4.4 dB/100ft
135 MHz	5 dB/100ft
143 MHz	5.1 dB/100ft
180 MHz	5.8 dB/100ft
270 MHz	7.1 dB/100ft
360 MHz	8.2 dB/100ft
540 MHz	10.1 dB/100ft
720 MHz	11.8 dB/100ft
750 MHz	12 dB/100ft
1000 MHz	13.9 dB/100ft
1500 MHz	17 dB/100ft
2000 MHz	19.6 dB/100ft
2250 MHz	20.8 dB/100ft
3000 MHz	24 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82 %

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	14 lbs/1000ft
Max Recommended Pulling Tension:	27 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
RG Type:	Mini 59/U Type
Series Type:	Sub-miniature 59

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
1865A 0101000	Black	C
1865A 0061000	Blue, Light	C
1865A 0011000	Brown	C
1865A 0081000	Gray	
1865A N3U1000	Green, Mil	
1865A 0031000	Orange	
1865A 0021000	Red	C
1865A 0071000	Violet	C
1865A 0091000	White	C
1865A 0041000	Yellow	

Footnote:	C - CRATE REEL PUT-UP.

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