

Product: [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

Construction Details

RG Type:	Sub-miniature 59
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Conductor

Size	Stranding	Nom. Diameter	Material
25	19x37	0.021 in	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.094 in (2.4 mm)

Insulation Table Notes:	Gas Injected
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Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.15 in

Electrical Characteristics

Return Loss

Frequency	Min. Return Loss
5-850 MHz	21 dB
850-3000 MHz	18 dB

Attenuation

Frequency	Nom. Attenuation
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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
27.4 Ohm/1000ft (89.9 Ohm/km)	5.4 Ohm/1000ft (18 Ohm/km)	16.5 pF/ft (54.1 pF/m)	75 Ohm	82%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C To +75°C

Max. Pull Tension:	27 lbs (12 kg)
Bulk Cable Weight:	14 lbs/1000ft (21 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG.
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.428 Revision Date: 05-27-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1865A 0101000	Black	Reel	1,000 ft	612825358435	C

Footnote:	C - CRATE REEL PUT-UP.
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