



## 7806A

Part Number: 7806A

RG-58 Type

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### Product Description

RG-58 type, 19 AWG solid .037" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) &#43; tinned copper braid shield (90% coverage), polyethylene jacket.

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### Product Specifications

#### Conductor

Total Number of Conductors:	1
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### Technical Specifications

#### APAC Standard

Mil Order #39 (China RoHS):	Yes
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#### Bend Radius

Min Bend Radius/Minor Axis:	2 in
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#### CCB-Part Number

Notes:	Belden® The Wire in Wireless®
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#### CCB-Sub-Part Number

Plenum (Y/N):	No
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#### Connectors

Suggested Connectors:	Mates with standard RG-58 connectors
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### Contact Information

PHONE_NUM:	1-800-Belden1
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## EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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## Environmental Characteristics

Operating Temp Range:	-40°C To +80°C
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## EU Directive

EU CE Mark:	No
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EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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## General Electrical Parameters

Sweep Testing:	100% Sweep tested to 6 GHz
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## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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RG Type:	58/U
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Series Type:	RF 195
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## Temperature Range

Non-UL Temp Rating:	80°C
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## Use

Max Recommended Pulling Tension:	40 lbs
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### Impedance:

#### Nominal Characteristic Impedance

50 Ohm
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### Inductance:

#### Nominal Inductance

0.064 $\mu$ H/ft
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### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
7.6 Ohm/1000ft	4.2 Ohm/1000ft

**Power Rating:**

Frequency [MHz]	Max. Power Rating [W]
30 MHz	890 W
50 MHz	694 W
150 MHz	403 W
220 MHz	336 W
450 MHz	231 W
900 MHz	162 W
1,500 MHz	124 W
1,800 MHz	113 W
2,000 MHz	107 W
2,500 MHz	95 W
3,000 MHz	87 W
3,500 MHz	80 W
4,500 MHz	70 W
5,800 MHz	62 W
6,000 MHz	61 W

**Delay:**

Nominal Delay	Nominal Velocity of Propagation (VP)
1.32 ns/ft	77 %

**Voltage:**

Non-UL Voltage Rating
300V RMS

**VSWR:**

Frequency [MHz]	Max. VSWR
	1.25:1

5 MHz	
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6000 MHz	
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**Capacitance:**

**Nominal Capacitance Conductor to Shield**

24.3 pF/ft
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**High Frequency (Nominal/Typical):**

Frequency (MHz)	Nom. Insertion Loss
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5 MHz	0.75 db/100ft
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10 MHz	1 db/100ft
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30 MHz	2 db/100ft
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50 MHz	2.5 db/100ft
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150 MHz	4 db/100ft
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220 MHz	4.9 db/100ft
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450 MHz	7.1 db/100ft
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900 MHz	10.3 db/100ft
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1500 MHz	13.7 db/100ft
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1800 MHz	15.2 db/100ft
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2000 MHz	16.1 db/100ft
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2500 MHz	18.3 db/100ft
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3000 MHz	20.5 db/100ft
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4500 MHz	26.5 db/100ft
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5800 MHz	31.2 db/100ft
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6000 MHz	32 db/100ft
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**Insulation:**

Material	Nominal Diameter
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Gas-injected FHDPE - Foam High Density Polyethylene	0.11 in
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**Outerjacket 1:**

Material	Nominal Diameter
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PE - Polyethylene	0.195 in
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**Conductor:**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	BC - Bare Copper	0.037 in	1

**Outershield 1:**

Type	Layer	Material	Material Trade Name	Coverage
Tape	1	Aluminum Foil- Polyester Tape- Aluminum Foil	Duofoil®	100 %
Braid	2	TC - Tinned Copper		90 %

**Product Variants**

Part Number	Color	Put-Up Type	Length
7806A 0101000	BLACK	Reel	1000 ft
7806A 010500	BLACK	Reel	500 ft

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