



**Part Number: 8216**  
 50 Ohm, RG174, 26 AWG

## Product Description

RG-174/U type, 26 AWG stranded (7x34) .019" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (90% coverage), PVC jacket.

## Technical Specifications

### Product Overview

Environmental Space:	Outdoor - Aerial
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
26	7x34	BCCS - Bare Copper Covered Steel	0.019 in	1

Conductor Count:	1
Conductor Size:	26 AWG

#### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.06 in

#### Outer Shield Material

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	90 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.11 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
97 Ohm/1000ft	10.7 Ohm/1000ft	10.7 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
30.8 pF/ft

Shielding:	Braid(s)
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#### Inductance

Nominal Inductance
0.077 $\mu$ H/ft

#### Impedance

Nominal Characteristic Impedance
50 Ohm

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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1 MHz	1.9 dB/100ft
10 MHz	3.3 dB/100ft
50 MHz	5.8 dB/100ft
100 MHz	8.4 dB/100ft
200 MHz	12.5 dB/100ft
400 MHz	19 dB/100ft
700 MHz	27 dB/100ft
900 MHz	31 dB/100ft
1000 MHz	34 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

#### Power Rating

Frequency [MHz]	Max. Power Rating [W]
1 MHz	976 W
10 MHz	354 W
50 MHz	197 W
100 MHz	161 W
200 MHz	136 W
400 MHz	120 W
700 MHz	112 W
900 MHz	109 W
1,000 MHz	108 W

#### Voltage

Non-UL Voltage Rating	UL Voltage Rating
1100 V RMS (Mil-Spec)	30 V RMS (UL AWM Style 1354)

#### Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	8 lbs/1000ft
Max Recommended Pulling Tension:	21 lbs
Min Bend Radius/Minor Axis:	1 in

#### Standards

UL AWM Style:	UL Style 1354
CPR Euroclass:	Eca
RG Type:	174/U Type
RG / Series Type:	174/U Type

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	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
MIL Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Flammability, LSOH, Toxicity Testing

UL voltage rating:	30 V RMS (UL AWM Style 1354)
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Footnote
8216 010100	Black	
8216 0101000	Black	G N
8216 010500	Black	

Footnote:	G - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 100'.
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Footnote:	N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.
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