Belden



Product: 8216

50 Ohm Wireless Transmission Coax, RG-174, 26 AWG Str BCCS, 90% TC Braid, PVC Jkt

Product Description

50 Ohm Wireless Transmission Coax, RG-174, 26 AWG (7x34) Bare Copper Covered Steel Conductor , PE Insulation, 90% Tinned Copper Braid Shield, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)

Construction Details

RG Type:	174

Conductor

Size	Stranding	Nom. Diameter	Material
26 AWG	7x34	0.019 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.060 in (1.5 mm)	White

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	90%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.110 in (2.79 mm)

Overall Cable Diameter (Nominal):	0.110 in (2.79 mm)

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
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	19.0 dB/100ft
700 MHz	27.0 dB/100ft
900 MHz	31.0 dB/100ft
1000 MHz	34.0 dB/100ft

Power Rating

Frequency	Max. Power Rating
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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
97 Ohm/1000ft	10.7 Ohm/1000ft (35.1 Ohm/km)	30.8 pF/ft (101 pF/m)	50 Ohm	66%

Voltage

UL Voltage Rating	Voltage Rating
30 V (UL AWM 1354)	1100 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C (UL AWM 1354)	-30°C to +75°C

Bend Radius

Installation Min.
1.1 in (28 mm)

Max. Pull Tension:	20 lbs (9.1 kg)
Bulk Cable Weight:	8 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
AWM Compliance:	AWM 1354
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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: 0.540 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8216 010100	Black	Reel	100 ft	612825196266	
8216 010500	Black	Reel	500 ft	612825355496	
8216 0101000	Black	Reel	1,000 ft	612825196273	G N

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

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