

Detailed Specifications & Technical Data

BELDEN Cable

Part Number: 8216 Coax - RG-174/U Type



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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.

PHYSICAL CHARACTERISTICS :

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CONDUCTOR :

Number of Coax: 1
 Total Number of Conductors: 1
 RG Type: 174/U
 AWG: 26
 Stranding: 7x34
 Conductor Diameter: .019 in.
 Conductor Material: BCCS - Bare Copper Covered Steel

INSULATION :

Insulation Material: PE - Polyethylene
 Insulation Diameter: .060 in.

OUTER SHIELD :

Outer Shield Type: Braid
 Outer Shield Material: TC - Tinned Copper
 Outer Shield %Coverage: 90 %

OUTER JACKET :

Outer Jacket Material: PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER :

Overall Nominal Diameter: .110 in.

MECHANICAL CHARACTERISTICS :

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Operating Temperature Range: -40°C To +75°C
 UL Temperature Rating: 60°C (UL AWM Style 1354)
 Bulk Cable Weight: 8.4 lbs/1000 ft.
 Max. Recommended Pulling Tension: 21 lbs.
 Min. Bend Radius (Install): 1 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE :

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APPLICABLE STANDARDS :

AWM Specification: UL Style 1354 (30 V 60°C)
 EU CE Mark (Y/N): Yes
 EU RoHS Compliant (Y/N): Yes
 EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

PLENUM/NON-PLENUM :

Plenum (Y/N): N

ELECTRICAL CHARACTERISTICS :

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Nom. Characteristic Impedance: 50 Ω
 Nom. Inductance: 0.077 μH/ft

Nom. Capacitance Conductor to Shield: **30.8 pF/ft**
 Nominal Velocity of Propagation: **66 %**
 Nominal Delay: **1.54 ns/ft**
 Nom. Conductor DC Resistance @ 20 Deg. C: **97 Ω/1000 ft**
 Nominal Outer Shield DC Resistance @ 20°C: **10.7 Ω/1000 ft**
 Nom. Attenuation:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			1.9
	10			3.3
	50			5.8
	100			8.4
	200			12.5
	400			19.0
	700			27.0
	900			31.0
	1000			34.0

Max. Power Rating:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Power Rating (W)
	1			976
	10			354
	50			197
	100			161
	200			136
	400			120
	700			112
	900			109
	1000			108

Max. Operating Voltage - UL: **30 V RMS (UL AWM Style 1354)**
 Max. Operating Voltage - Non-UL: **1100 V RMS (Military)**

PUT-UPS AND COLORS:

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Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8216 010100	#26 PE BRD PVC	100	1.1	BLACK	
8216 0101000	#26 PE BRD PVC	1000	9	BLACK	G N
8216 010500	#26 PE BRD PVC	500	5	BLACK	

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.

Revision Number: 1 Revision Date: 07-08-2005

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