



Infinity RG6 Coaxial Cable, Quad Shield, 18AWG BC, CM Rated



Applicable Standards

ANSI/SCTE 74: Specifies the requirements for coaxial cables used in RF broadband communications, including RG6 cables.

UL 444: Covers communication cables, including those with CM-rated PVC jackets, ensuring fire safety and compliance for in-wall installations.

SCTE 15: Defines the specifications for coaxial cables in broadband applications, including impedance and attenuation limits.

Product Part Number

N212.C2PVx(y)

Product Description

Infinity RG6 Quad Shield Coaxial Cable is engineered for high-performance signal transmission with minimal interference. Featuring an 18AWG solid bare copper (BC) conductor and robust quad shielding, this cable ensures maximum protection against EMI and RFI. Its CM-rated PVC jacket provides safety and flexibility, making it ideal for various indoor installations. Designed with a 75 Ohm impedance, it is perfect for advanced audiovisual and data applications.

Product Features

- **Quad Shielding :** Four layers of shielding (aluminum foil, 60% ALMG braid, aluminum foil, and 40% ALMG braid) for superior interference protection.
- **18AWG Solid Bare Copper Conductor:** Provides excellent conductivity for reliable signal transmission.
- **CM-Rated PVC Jacket :** Suitable for in-wall installations, offering safety and compliance with building standards.
- **75 Ohm Impedance :** Ideal for high-quality audio, video, and data applications.
- **Versatile Applications :** Suitable for cable TV, satellite TV, home theater, and other multimedia installations.





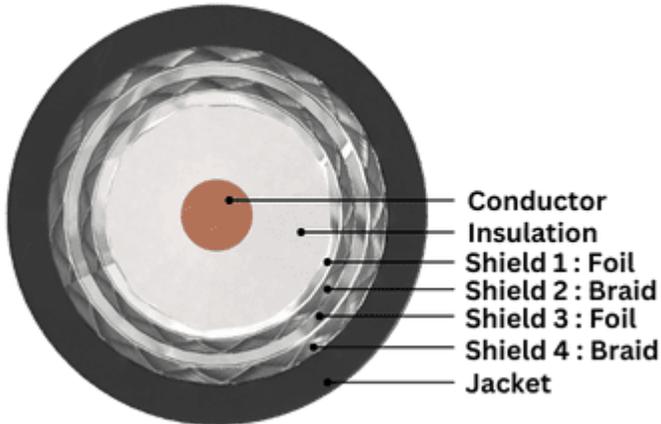
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Applications

- **Cable Television (CATV) and Satellite TV:** Used extensively for transmitting high-quality video and audio signals from service providers to homes and businesses.
- **Antenna Installations:** Ideal for connecting antennas to receivers, TVs, or set-top boxes, ensuring strong signal reception.
- **High-Definition Video Distribution:** Perfect for distributing HD video signals throughout homes or commercial settings, maintaining high-quality image and sound.
- **Surveillance Systems:** Employed to transmit video signals from security cameras to DVRs or monitors, ensuring reliable video feed for security purposes.
- **Home Theater Systems:** Ensures high-quality signal transmission for home theater setups, including Blu-ray players, gaming consoles, and audio systems.



Sectional Diagram



Material Specifications

Conductor	Material	Solid BC (Bare Copper)
	Diameter (mm)	1.02 ± 0.01
Insulation	Material	Foam PE
	Insulation Diameter (mm)	4.57±0.15
	Average Thickness (mm)	1.75
	Min. Thickness (mm)	1.65
Shield 1	Material	AL/PET Bonded
Shield 2	Material	ALMG Braid
	Braid Coverage	≥ 60%
Shield 3	Material	AL/PET/AL
Shield 4	Material	ALMG Braid
	Braid Coverage	≥ 40%
Jacket	Material	PVC
	Diameter (mm)	7.2 ± 0.3



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Average Thickness (mm)	0.65
Min. Thickness (mm)	0.60
Color	White / Black
Electrical Characteristics :	
Inner Conductor DCR 20°C	≤ 21.4Ω/KM
Characteristic Impedance (Ohm)	75 ± 3
Capacitance Conductor to Shield (pF/M)	53 ± 5
Fire Resistance	CM

Environmental Specifications

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 75°C

Transmission Performance: Frequency Vs Attenuation

Frequency (MHz)	Attenuation (dB/100m)
5	1.90
55	5.25
211	10.0
450	14.43
550	16.08
750	18.54
865	20.01
1000	21.49





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Ordering Information

N212.C2PVB(5P)	Infinity RG6 Coaxial Cable, Quad Shield, 18AWG Solid BC Conductor, Shielding: AL Foil + 60% ALMG Braid + AL Foil + 40% ALMG Braid, CM Rated PVC Jacket, 75 Ohm, Black, 500ft Pull Box
N212.C2PVW(5P)	Infinity RG6 Coaxial Cable, Quad Shield, 18AWG Solid BC Conductor, Shielding: AL Foil + 60% ALMG Braid + AL Foil + 40% ALMG Braid, CM Rated PVC Jacket, 75 Ohm, White, 500ft Pull Box
N212.C2PVB(10P)	Infinity RG6 Coaxial Cable, Quad Shield, 18AWG Solid BC Conductor, Shielding: AL Foil + 60% ALMG Braid + AL Foil + 40% ALMG Braid, CM Rated PVC Jacket, 75 Ohm, Black, 1000ft Pull Box
N212.C2PVW(10P)	Infinity RG6 Coaxial Cable, Quad Shield, 18AWG Solid BC Conductor, Shielding: AL Foil + 60% ALMG Braid + AL Foil + 40% ALMG Braid, CM Rated PVC Jacket, 75 Ohm, White, 1000ft Pull Box

