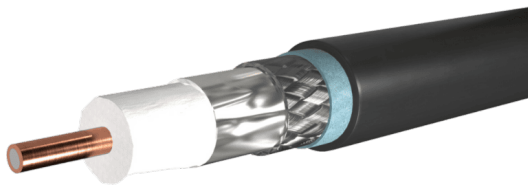




# Infinity RG6 Coaxial Cable, Direct Burial, Dual Shield, 18AWG CCS



## Applicable Standards

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

**ASTM B566:** Standard specification for copper-clad steel conductors.

**IEC 61196-1:** General specifications for coaxial cables used in communication systems.

## Product Part Number

N215.S1PEB(10R)

## Product Description

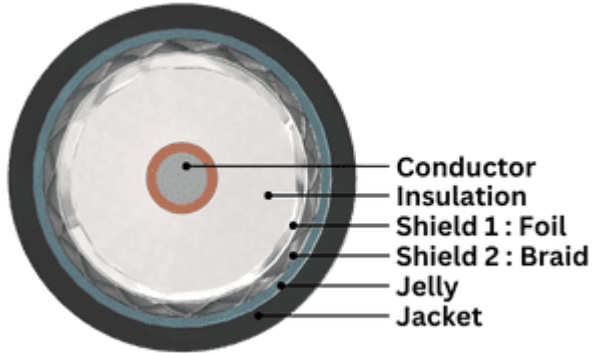
Infinity RG6 Coaxial Cable is a dual-shielded, direct burial solution designed for outdoor applications. Featuring an 18AWG solid copper-clad steel (CCS) conductor, aluminum foil, and 60% ALMG braid shielding, it delivers superior signal integrity. Its gel-filled polyethylene (PE) jacket ensures protection against moisture, making it ideal for underground installations.

## Product Features

- **Dual Shielding :** Aluminum foil and 60% ALMG braid provide robust protection against interference.
- **18AWG Solid CCS Conductor :** Offers excellent conductivity and durability for long-distance signal transmission.
- **Gel-Filled PE Jacket :** Prevents moisture ingress, ensuring reliable underground performance.
- **75 Ohm Impedance :** Optimized for superior signal transmission in CATV, satellite, and broadband applications.
- **Direct Burial Design :** Engineered for outdoor installations without requiring additional conduits.



## Sectional Diagram





# Infinity RG6 Coaxial Cable, Direct Burial, Dual Shield, 18AWG CCS

## Material Specifications

Conductor	Material	CCS (Copper-Clad Steel)
	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%
Filler	Material	Jelly
Jacket	Material	PE
	Diameter (mm)	6.8 ± 0.3
	Average Thickness (mm)	0.75
	Min. Thickness (mm)	0.70
	Color	Black
Electrical Characteristics :		
Inner Conductor DCR 20°C	≤ 105Ω/KM	
Characteristic Impedance (Ohm)	75 ± 3	
Capacitance Conductor to Shield (pF/M)	53 ± 5	





# Infinity RG6 Coaxial Cable, Direct Burial, Dual Shield, 18AWG CCS

## Environmental Specifications

Temperature range	Storage & shipping	-20°C to 90°C
	Installation	0°C to 60°C
	Operation	-20°C to 90°C

## Applications

- **Outdoor Cable TV Distribution:** Provides reliable signal transmission for cable television systems in outdoor and underground installations.
- **Satellite TV Connections:** Ideal for direct burial installations in satellite communication setups.
- **Broadband Internet Infrastructure:** Supports high-speed internet connections in outdoor environments.
- **Security and Surveillance Systems:** Transmits video signals for outdoor surveillance cameras.
- **Long-Distance Signal Transmission:** Used in outdoor setups where extended runs require moisture-resistant cabling

## Transmission Performance : Frequency Vs Attenuation

Frequency (MHz)	Attenuation (dB/100m)
5	3.60
55	5.25
211	10.0
450	14.43
550	16.08
750	18.54
865	20.01
1000	21.98

## Ordering Information

N215.S1PEB(10R)	Infinity RG6 Coaxial Cable, Dual Shield, Direct Burial, 18AWG Solid CCS Conductor, AL Foil + 60% ALMG Braid Shield, Gel-Filled PE Jacket, 75 Ohm, Black, 1000ft Reel
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