

Plenum Grade RG58A/U Type Coaxial Cable

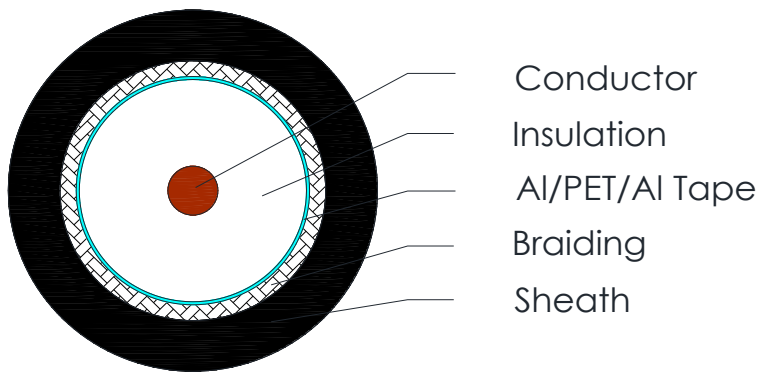


C8003

Application

Data transmission, RF communication, Broadcast or in Computer applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Tinned Copper Wire
Insulation	Foam Fluorinated Ethylene Propylene (FFEP)
Screen	Al-PET-Al Foil
Braid	Tinned Copper Wire
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (CMP PVC) Standard Colour: Black
Standard Put Up Length	305 - 500 or 1000 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C8003
Conductor Configuration(AWG)	19
Nom. Diameter Conductor(mm)	0.94
Nom. Diameter Dielectric	2.80
Coverage Braid (%)	90
Nom. Overall Diameter(mm)	4.95
Operating Temperature (°C)	0°C to +60°C
Max. Recommended Pulling Tension (N)	189
Min. Bend Radius (install)(mm)	50
Nominal Cable Weight (kg/km)	36

Electrical Characteristics at 20°C

Nom.DC Resistance (Ω/km)	Max. DC Shield Resistance (Ω/km)	Impedance (Ω)	Nom. Inductance (μH/m)	Nom. Capacitance Conductor to Shield (pF/m)	Nom. Velocity Of Propagation (%)	Nom. Time Delay (ns/m)	Max.Operating Voltage (V RMS)
25.0	13.8	50 ± 3	0.21	80	77	4.33	300

Nom. Attenuation Table

Frequency (MHz)	Attenuation (dB/100m)
1	0.75
10	1.0
30	2.0
50	2.5
150	4.0
220	4.9
450	7.1
900	10.3

Frequency (MHz)	Attenuation (dB/100m)
1500	13.7
1800	15.2
2000	16.1
2500	18.3
3000	20.5
4500	26.5
5800	31.2
6000	32.0

Reference Standards

IEC 60228	(BS) EN 50117
(BS) EN 50290-2	IEC 61196
NFC 725.154(A), ANSI/NFPA 262	RoHS directives