RG-8/U Type Coaxial Cable

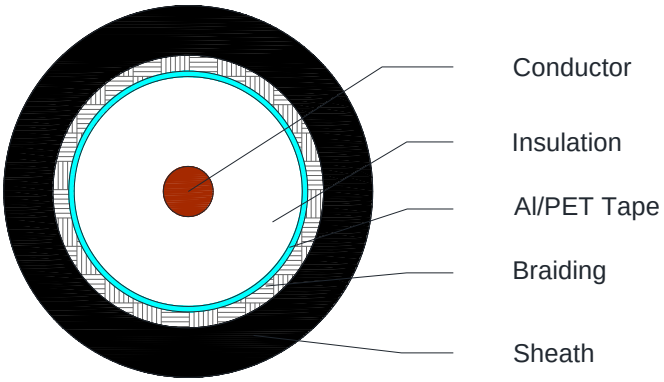
PVC Sheath

C1047

Application

RF and Broadcast transmission as well as in wireless communication applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Bare Copper Wire
Dielectric	Foamed Polyethylene
Screen	Aluminium/Polyester foil tape
Braid	Tinned Copper Wire
Sheath Material	Polyvinyl Chloride (PVC) Standard Color: Black
Standard Put Up Length	305 or 500 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	C1047
Conductor Configuration(AWG)	10
Nom. Diameter Conductor(mm)	2.75
Nom. Diameter Dielectric	7.3
Screen Coverage (%)	115
Coverage Braid (%)	90
Nom. Overall Diameter(mm)	10.3
Operating Temperature (°C)	-40°C to +85°C
Max. Recommended Pulling Tension (N)	1335
Min. Bend Radius (install)(mm)	100
Nominal Cable Weight (kg/km)	160

Electrical Characteristics 20°C

Max. Conductor Resistance (Ω/km)	Max.DC Shield Resistance (Ω/km)	Impedance (ohms)	Nom. Inductance (µH/m)	Nom Capacitance Conductor to Shield (pF/m)	Nominal Velocity Of Propagation (%)	Nom. Time Delay (ns/m)	Screening Efficiency 30 – 2500 MHz (dB)	Min. Return Loss 5 – 2200 MHz	Max. Operating Voltage (VRMS)
4.6	5.6	50 ± 3	0.20	75	82	5.05	> 90	21	600

Nominal Attenuation in dB/100

Frequency (MHz)	Attenuation (dB/100m)
5	1.4
10	1.7
50	3.3
100	4.6
200	5.9

Frequency (MHz)	Attenuation (dB/100m)
400	8.6
700	11.9
900	13.5
1000	14.5

Reference Standards

(BS) EN 50290-2
(BS) EN 50117
IEC 61196
RoHS directives