

# LMR 400 Low Loss Communications Coaxial Cable

## PE Sheath

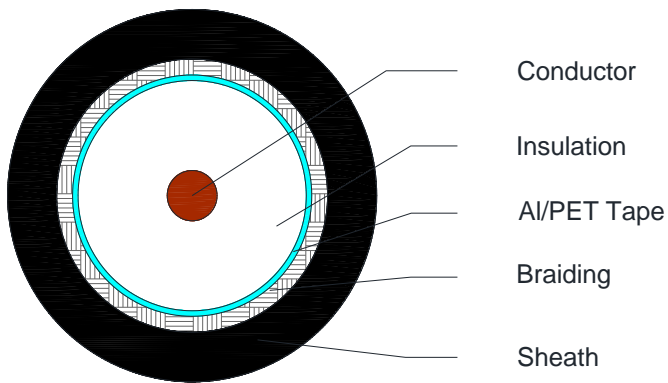


C1899

### Application

Drop-in replacement for RG-8/9913 Air-Dielectric type Cable, Jumper Assemblies in Wireless Communications Systems, Short Antenna Feeder runs, Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, Low loss RF cable.

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Solid BBCAI
Dielectric	Foamed Polyethylene
Screen	Aluminium/Polyester foil tape
Braid	Tinned Copper Wire
Sheath Material	Polyethylene (PE) 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	C1899
Conductor Configuration(AWG)	10
Nom. Diameter Conductor(mm)	2.74
Nom. Diameter Dielectric	7.24
Screen Coverage (%)	115
Coverage Braid (%)	86
Nom. Overall Diameter(mm)	10.29
Operating Temperature (°C)	-40°C to +85°C
Max. Recommended Pulling Tension (N)	712
Min. Bend Radius (install)(mm)	100
Nominal Cable Weight (kg/km)	100

#### Electrical Characteristics 20°C

Impedance (ohms)	Nom Capacitance Conductor to Shield (pF/m)	Nom. Velocity Of Propagation (%)	Jacket spark test Voltage (VRMS)
50 ± 3	78.4	85	8000

#### Nominal Attenuation in dB/100

Frequency (MHz)	Attenuation (dB/100m)
30	2.49
50	3.18
150	4.92
220	6.23
450	8.85
900	12.79

Frequency (MHz)	Attenuation (dB/100m)
1500	16.72
1800	18.36
2000	19.34
2500	21.97
3000	24.59

#### Reference Standards

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