

### Technical Specification

**Cable Type: RG-59B/u TYPE MIL-DTL-17 M17/29 RG-059 (CCA 86%)**

**Western Wire Part Number: WRG05915**

**Revision: 28/13    Date: 19 February 2013**



### Physical Properties

Inner Conductor	Solid 0.60±0.02 mm bare copper covered steel (CCS) 23#
Dielectric	Solid LDPE, 3.70±0.10 mm OD
Dielectric thickness	1.55 mm nom. 1.25 mm min.
Outer Conductor	Single braid, 86% min. coverage, 16x7x0.12 mm bare copper-clad aluminum wires, 4.2 mm nom. OD.
Outer Jacket	Flame retardant PVC compound, TYPE IIA per MIL-DTL-17. Pressure extrusion.
Outer Jacket color	Black RAL 9005.
Jacket thickness	0.90 mm nom. 0.70 mm min.
Overall Diameter	6.0±0.20 mm.
Surface Marking	WESTERN WIRE WRG05915 RG59B/U TYPE MIL-DTL-17 M17/29-RG59 CCA FSHC FR IEC 60332-1 COAXIAL CABLE CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number]

### Mechanical Properties

Minimum Bend Radius	120 mm
Storage Temperature	-20 to +60C
Operating temperature	-40 to +80C
Center conductor elongation	1% min.
Center conductor tensile strength	560 N/mm <sup>2</sup> min.
Cold bend	5 wraps, 60mm mandrel after 4 hours @ -20C.
Flame Test	IEC 60332-1
Jacket tensile properties before aging	Tensile strength: 1.0 MPa min. Elongation: 200% min.
Jacket tensile properties after aging 100C x 168 Hours	Tensile strength: 85% min. retention. Elongation: 50% min. retention.
Total Weight	39 Kg/Km nom.
Jacket strip-ability @100mm/min	50mm Length: 10N min. 30N max.

### Electrical & Transmission Properties @ 20C

Characteristic Impedance	75±3 Ohm (TDR)
Capacitance	72 pF/m max. @ 1 KHz
Velocity of Propagation	66% nom.
Attenuation @ 400 MHz	32.0 dB/100 max.
Attenuation @ 1000 MHz	52.4 dB/100 max.
DC Resistance of inner conductor	166.6 Ohm/Km max.
DC Resistance of outer conductor	32.0 Ohm/Km max.
Continuous working voltage	1.7KV rms max.
Dielectric strength (conductor to shield)	7 KV rms min.
Jacket spark-test	5 KV rms min.
Jacket dielectric test after cold bend	5 KV rms min.

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)