

### Technical Specification

**Cable Type: MIL-C-17 M17/155-00001 RG-58C/u 50 Ohm Coaxial Cable**

**Western Wire Part Number: WRG05801**

**Revision: 15/08 Date: 13 January 2008**



### Physical Description

Inner Conductor	Stranded 19x0.18mm tinned copper (TC), 20AWG.
Inner Conductor OD	0.9±0.05mm
Dielectric	Solid LDPE.
Dielectric OD	2.95±0.15 mm
Outer Conductor	Single tinned copper (TC) braid made of 16x8x0.127mm wires, 94% coverage
Outer Conductor OD	3.81 mm max.
Outer Jacket	UV resistant NC PVC compound.
Outer Jacket Color	Black RAL 9005.
Overall Diameter	4.95±0.15 mm
Surface Marking	WESTERN WIRE WRG05801 MIL-C-17 M17/155-00001 RG-58C/u FSHC FR UL 1581 VW-1 COAXIAL CABLE CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]

### Mechanical Properties

Minimum Bend Radius	30 mm
Center conductor elongation	10% min.
Storage & operating temperature range	-40 to +85C
Flame Test	UL 1581 VW-1 & IEC 60332-1
Total Weight	41 Kg/Km nom.

### Electrical Properties @ 20C

Characteristic Impedance	50±2 Ohm @ 1-500 MHz.
SRL	See below
Capacitance	105 pF/m max. @ 1 KHz
Velocity of Propagation	66% nom.
DC Resistance of inner conductor	35.4 Ohm/Km max.
DC Loop resistance of center + outer conductors	1.50 Ohm/30m max.
Continuous working voltage	1400 V rms max.
Dielectric strength	3000 V rms min.
Spark test (100% dielectric & jacket)	5000 V rms min.
Corona extinction	1.9 Kv rms min.

Frequency MHz	Nom. Attenuation dB/100m	Max. Attenuation dB/100m	Min. SRL dB
1	1.4	NS	21
10	4.6	NS	21
50	10.8	NS	21
100	16.1	NS	21
200	23.9	NS	21
400	37.7	55.7	21
500	42.0	NS	21

 This cable fully conforms to EU Directive 2002/95/EC (RoHS)