

### Technical Specification

Cable Type: TYPE M17/164-00001 (RG214)

Western Wire Part Number: WRG21401

Revision 10/13 Date: 07 July 2013



### Physical Description

Inner Conductor	Stranded 7x0.75 mm, 2.25 mm OD 13# Silver Plated Copper
Dielectric	Solid LDPE, 7.25±0.18 mm OD
Outer Conductor	Double silver plated copper (SPC) braid
Inner braid	SPC 144x0.16 mm, 81% nom. coverage, 7.9 mm OD.
Outer braid	SPC 168x0.16 mm, 85% nom. coverage, 8.6 mm OD
Outer Jacket	NC PVC compound, colored Black RAL 9004
Overall Diameter	10.8 ± 0.18 mm
Surface Marking	WESTERN WIRE WRG21401 TYPE M17/164-00001 COAXIAL CABLE CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number]

### Mechanical Properties

Minimum Bend Radius	Static: 55mm. Dynamic: 110mm.
Center conductor elongation	25% min.
Operating temperature range	-30 to +70C
Cold bend test	-40C
Flame Test	IEC 60332-1
Copper weight	95 Kg/Km nom.
Total Weight	183 Kg/Km nom.

### Electrical Properties @ 20C

Characteristic Impedance	50±3 Ohm
Attenuation	18.0 dB/100m max. @ 400 MHz
Capacitance	100 pF/m nom. 105 pF/m max. @ 1 KHz
Coupling attenuation	75dB min @ 100-900 MHz
Velocity of Propagation	66% nom.
DC Resistance of inner conductor	6.0 Ohm /Km max.
DC Resistance of outer conductor	3.7 Ohm /Km max.
Continuous working voltage	3700 V rms max.
Dielectric strength	10 KV rms min.
Corona extinction	5 KV rms min.
Jacket spark test	5.5 KV rms.

Frequency MHz	Nom. Attenuation dB/100m	Min. SRL dB	Frequency MHz	Nom. Attenuation dB/100m	Min. SRL dB
5	1.3	31	500	16.4	28
10	1.9	31	1000	24.7	24
50	4.5	31	1500	32.2	24
100	6.8	31	2500	45.5	22
200	10.0	31	3000	52.2	-

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