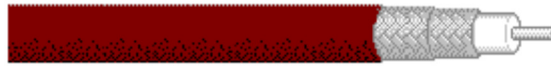


Technical Specification

Cable Type: M17/60-RG-142 50 Ohm High-Temp Coaxial Cable (SRL)

Western Wire Part Number: WRG14200

Revision: 07/13 Date: 11 March 2013



Physical Description

Inner Conductor	Solid Silver-plated Copper Covered Steel (SCCS), 0.94±0.0254 mm OD.
Dielectric	Solid PTFE, 2.94±0.125 mm OD
Outer Conductor	Double silver plated copper (SPC) braid.
Inner braid	Silver plated copper (SPC) 16x7x0.127mm, 94.8% coverage, 17.6±1mm lay. 3.45±0.10mm OD.
Outer braid	Silver plated copper (SPC) 16x7x0.127mm, 93.1% coverage, 14.0±1mm lay. 3.95±0.10mm OD.
Outer Jacket	FEP colored brown tint. 0.50 mm nom thickness. 0.45mm min. thickness.
Overall Diameter	4.95 ± 0.10 mm
Surface Marking	WESTERN WIRE WRG14200 M17/60-RG142 50 OHM COAXIAL CABLE CE 2011/65/EU (RoHS)
Notes	1. Marking shall be clear and legible and will not be erased after 5 finger rubbing. 2. Marking may be done by a printed tape, made of flame-retardant material, inserted under the jacket. The jacket shall be transparent enough to permit the reading of marking tape through the jacket.

Mechanical Properties

Minimum Bend Radius	50 mm
Elongation of center conductor	1% min.
Tensile strength of inner conductor	758 N/mm ² min.
Inner conductor adhesion to core	17.8 N min. 66.7 N max.
Operating temperature	-55 to +200C
Cold bend	-55C.
Flame Test	VW-1
Total Weight	64 Kg/Km max.

Electrical & Transmission Properties @ 20C

Characteristic Impedance	50±2 Ohm.
Capacitance	95.8 pF/m nom. @ 1 KHz
Velocity of Propagation	69.5% nom.
SRL (Sweep tested)	20dB min. @ 50-8000 MHz
DC Resistance of inner conductor	63.9 Ohm/Km max. @ 20C
Continuous working voltage	1400 V rms max. @ 20C
Dielectric strength	5000 V rms min.

Frequency MHz	Attenuation dB/100m Sweep tested @ 50-8000 MHz	Minimum SRL dB Sweep tested @ 50-8000 MHz
50	9.8	25.5
100	14.4	23.8
400	30.5	23.1
1000	50.0	22.0
3000	96.0	20.0
8000	189.5	20.0
12400	394.0	20.0

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