

### Technical Specification

**Cable Type: M17/175-00001 (RG-400) 50 Ohm High-Temp Coaxial Cable**

**Western Wire Part Number: WRG40001**

**Revision: 02/11 Date: 21 April 2011**



### Physical Description

Inner Conductor	Stranded Silver-plated Copper (SC), 19x0.203mm, 0.975 ±0.0254 mm OD
Dielectric	Solid extruded PTFE, 2.94±0.125 mm OD. 0.98mm min. thickness.
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, 93.6% coverage, 14.0±1mm lay. 3.95±0.10mm OD.
Outer Jacket	FEP colored brown tint. 0.50 mm nom. thickness. 0.45 mm min. thickness.
Overall Diameter	4.95±0.13 mm
Marking	WESTERN WIRE WRG40001 M17/175-00001 (RG400) 50 OHM COAXIAL CABLE CE 2002/95/EC (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	25 mm
Elongation of center conductor	10% min.
Tensile strength of inner conductor	NS
Inner conductor adhesion to core	17.8N min. 133N max.
Storage Temperature	-50 to +120C
Operating temperature	-55 to +200C
Cold bend	-55C
Flame test	VW-1
Total Weight	64 Kg/Km nom.

### Electrical & Transmission Properties @ 20C

Characteristic Impedance	50±2 Ohm.
Capacitance	105 pF/m max. @ 1 KHz
Attenuation	34.4 dB/100m max. @ 400 MHz
Velocity of Propagation	69.5% nom.
DC resistance of inner conductor	29.8 Ohm/Km max.
SRL (Sweep tested)	NS
Continuous working voltage	1400 V rms max. @ 20C
Dielectric strength	3000 V rms min.

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