

Technical Specification

Cable Type: M17/128-RG-400 50 Ohm High-Temp Coaxial Cable (SRL)

Western Wire Part Number: WRG40000

Revision 03/13 Date: 11 March 2013



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 WRG40000 M17/128-RG400 50 OHM COAXIAL CABLE CE 2011/65/EU (RoHS-2)
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
Velocity of Propagation	69.5% nom.
DC resistance of inner conductor	29.8 Ohm/Km max.
Continuous working voltage	1400 V rms max. @ 20C
Dielectric strength	3000 V rms min.

Sweep tested properties from 50MHz to 12.4GHz @ 20C

Frequency MHz	Max. Attenuation dB/100m	Min. SRL dB
50	10.5	25.5
100	14.8	25.5
400	34.4	23.8
1000	55.8	22
3000	124.7	17
10000	256	17
12400	295	17

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