

Technical Specification

Cable Type: MIL-C-17G M17/6 RG-011 + MB

Western Wire Part Number: WRG01108

Revision: 02/09 Date: 14 September 2009



Physical Description

75 Ohm coaxial cable, based on MIL-C-17 M17/6-RG-011. Frequency operation range: up to 1 GHz. Voltage rating: 3700 V max. Temperature operating range: -40 to +105 Celsius. Bonded aluminum foil and outer FR-PE jacket form a vapor-tight moisture-barrier and render the cable suitable for outdoor use and harsh conditions.

Inner Conductor	Stranded 7x0.404 mm, 1.21±0.05 mm OD, 18# Tinned copper (TC), 20% min. elongation.
Dielectric	Solid LDPE, 7.24 ± 0.15 mm OD
Outer Conductor	Single bare annealed copper (BC) braid
Braid construction	24x8x0.18 mm nom., 95.3% nom. optical coverage, 8.63mm max. OD.
inner Jacket	FR-PVC compound, colored Black (RAL 9005) Conforming to BS-6746 TM-1.
Inner jacket OD	10.3 ± 0.15 mm
Rip cord	Stranded PA ripcord laid under the MB enabling easy MB+jacket removal.
Moisture barrier	200 micron aluminum foil bonded to itself and to the outer jacket. 25% min. overlap.
Outer Jacket	Flame-retardant LDPE.
Color	Black RAL 9005.
Thickness	1.55 mm nom.
Overall Diameter	14.8 ± 0.5 mm
Surface Marking	WESTERN WIRE WRG01108 IEC/CX75 RG-11A/U-M COAXIAL CABLE CE 2002/95/EC (RoHS) [Month, Year] [Batch Number] [Meter Mark] METER

Mechanical Properties

Minimum Bend Radius	300 mm
Storage Temperature	-40 to +80C
Operating temperature	-40 to +80C
Total Weight	315 Kg/Km nom.

Electrical Properties

Characteristic Impedance	75 ± 5 Ohm
Capacitance	67.3 pF/m max. @ 1 KHz
Velocity of Propagation	66% nom. 65% min.
DC Resistance of inner conductor	25.0 Ohm /Km max. @ 20C
DC Resistance of outer conductor	3.9 Ohm /Km max. @ 20C
Continuous working voltage	3.7KV rms max. @ 20C
Dielectric strength	10KV rms min.
Jacket spark-test	5KV rms min.
Corona Extinction	5KV min.
SRL	NS

Frequency MHz	Nom. Attenuation dB/100m	Frequency MHz	Attenuation dB/100m
1	0.6	400	14.6 nom. 17.0 Max.
10	2.2	700	20.5 nom.
50	4.5	900	23.4 nom.
100	6.6	1000	25.7 nom. 30.8 Max.

Labeling & Packaging

Labeling & packaging shall fully conform to the customer requests.

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