

Technical Specification

Cable Type: MIL-C-17F M17/6 RG-011 86%

Western Wire Part Number: WRG01103

Revision: 07/07 Date: 28 June 2007



Physical Description

75 Ohm coaxial cable, type MIL-C-17F M17/6-RG-011. Frequency operation range: up to 1 GHz.
Voltage rating: 3700 V max. Temperature operating range: -20 to +80 Celsius.

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	86% min. optical coverage. 8.63mm max. OD.
Outer Jacket	FR-PVC compound, colored Black (RAL 9005)
Overall Diameter	10.3 ± 0.15 mm
Surface Marking	WESTERN WIRE WRG01103 TYPE MIL-C-17F M17/6-RG-011 FSHC FR UL 1581 VW-1 COAXIAL CABLE CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]


Mechanical Properties

Minimum Bend Radius	200 mm
Storage Temperature	-20 to +80C
Operating temperature	-10 to +80C
Flame Test	UL 1581 VW-1 & IEC 60332-1
Total Weight	140 Kg/Km nom.

Electrical Properties

Characteristic Impedance	75 ± 3 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	Attenuation dB/100m	Frequency MHz	Attenuation dB/100m
1	0.6 nom.	400	14.6 nom. 17.0 Max.
10	2.2 nom.	700	20.5 nom.
50	4.5 nom.	900	23.4 nom.
100	6.6 nom.	1000	25.7 nom. 30.8 Max.

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