

Technical Specification
Cable Type: MIL-DTL-17 M17/6-RG-11 HFFR
Western Wire Part Number: WRG01104
Revision: 04/12 Date: 27 January 2012

Physical Description

75 Ohm coaxial cable, conforming to MIL-DTL-17 M17/6-RG11. Frequency operation range: up to 1 GHz.

Voltage rating: 3700 V max. Temperature operating range: -40 to +80°C.

The outer jacket is made of halogen-free & flame retardant compound (LS0H).

Inner Conductor Stranded 7x0.404 mm, 1.21 mm nom. OD, 18# Tinned copper (TC)

Dielectric Solid LDPE, 7.24 ± 0.10 mm OD

Outer Conductor Single bare annealed copper (BC) braid

Braid construction 24x8x0.18 mm nom., 95.3% min. optical coverage.

Outer Jacket UV resistant NC Halogen-Free Flame Retardant compound, colored Black RAL 9005.

Overall Diameter 10.3±0.15 mm

Surface Marking WESTERN WIRE WRG01104 TYPE MIL-DTL-17 M17/6-RG11 LS0H FR IEC 60332-1 COAXIAL CABLE CE 2002/95/EC (RoHS) [Month, Year] [Batch Number] [SMM] METER

Mechanical Properties

Storage Temperature -40 to +80C

Operating temperature -40 to +80C

Flame Test IEC 60332-1 (Fire), IEC 60754 (gas) & IEC 61034 (smoke).

Total Weight 140 Kg/Km nom.

Halogen content Null.

Electrical Properties @ 20°C

Characteristic Impedance 75 ± 5 Ohm

Capacitance 70 pF/m nom. @ 1 KHz

Velocity of Propagation 66% nom. 65% min.

DC Resistance of inner conductor 21.6 Ohm /Km max. @ 20C

DC Resistance of outer conductor 3.9 Ohm /Km max. @ 20C

Continuous working voltage 3700 V rms max. @ 20C

Dielectric strength 10KV rms min.

Corona Extinction 5000V min.

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

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