

Technical Specification

Cable Type: Modified MIL-C-17G M17/181-00001 (PVC)

Western Wire Part Number: WRG01106

Revision: 04/06 Date: 05 December 2006



Physical Description

75 Ohm coaxial cable, modified MIL-C-17F M17/181-00001. Frequency operation range: up to 1 GHz. Voltage rating: 3700 V max. Temperature operating range: -30 to +85 Celsius.

Inner Conductor	Stranded 7x0.404 mm, 1.21±0.05 mm OD, 18AWG Tinned copper (TC), 20% min. elongation.
Dielectric	Solid LDPE, 7.24 ± 0.15 mm OD
Outer Conductor	Longitudinal polyester/aluminum foil and a single tin-coated annealed copper (TC) braid
Foil construction	25µ polyester tape laminated to 50µ aluminum foil applied with 50% min. overlap, aluminum facing the copper braid.
Braid construction	24x8x0.16 mm nom., 95.3% nom. optical coverage, 8.63mm max. OD.
Outer Jacket	UV resistant NC 105C FR-PVC compound, colored Black (RAL 9005) Conforming to BS-6746 TM-1
Overall Diameter	10.3 ± 0.20 mm
Surface Marking	WESTERN WIRE WRG01106 TYPE MIL-C-17G M17/181-00001 P/N 382655052/40666630437-00
50cm intervals	COAXIAL CABLE CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]


Mechanical Properties

Minimum Bend Radius	200 mm
Storage Temperature	-30 to +85C
Operating temperature	-30 to +85C
Flame Test	UL 1581 VW-1 & IEC 60332-1
Total Weight	145 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	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.

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