

SPECIFICATION CONTROL DRAWING

5012M3612

CHEMINAX

50 OHM, AWG 12, 7 STRANDS OF .0296, COAXIAL CABLE

Date: 8-8-13
Revision: L

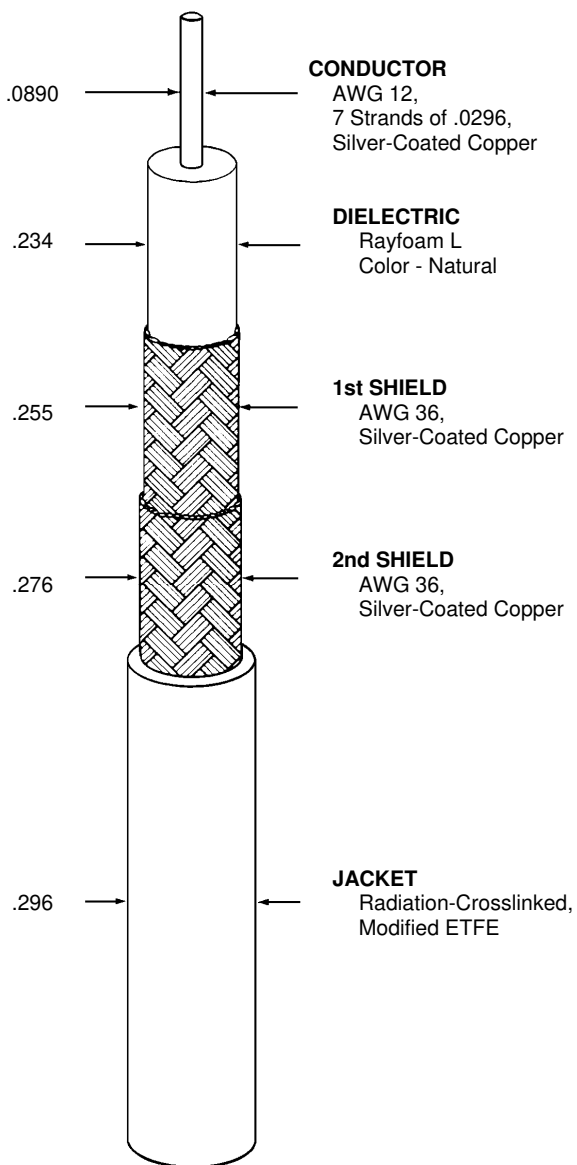
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE	50 ± 2 ohms, Method A
CAPACITANCE	25.0 pF/ft. (minimum), 30.0 pF/ft. (maximum)
VELOCITY OF PROPAGATION	78% (nominal)
ATTENUATION	3 dB/100 ft. (maximum) at 100 MHz 6 dB/100 ft. (maximum) at 400 MHz 10 dB/100 ft. (maximum) at 1 GHz 20 dB/100 ft. (maximum) at 3 GHz



ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE	1.76 ohms/1000 ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000 ft.
JACKET FLAWS	
SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
VOLTAGE WITHSTAND (DIELECTRIC)	3500 volts rms)

ENVIRONMENTAL

FLAMMABILITY	FAR, Part 25 (Spec 1200, Method B)
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/8.00 inch mandrel
VOLTAGE WITHSTAND (Post Environmental)	1000 volts (rms), 1 minute

PHYSICAL

DIELECTRIC CONCENTRICITY	75% (minimum)
INSULATION (DIELECTRIC) ELONGATION	50% (minimum)
TENSILE STRENGTH	1000 lbf/in ² (minimum)
JACKET ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (minimum)
JACKET THICKNESS	.010 inch (nominal)
SHIELD COVERAGE (each)	90% (minimum)

Outer jacket color will be black (designated by a "-0" appended to the part number, e.g. 5012M3612-0), unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

WEIGHT 68.2 lbs/1000 ft. (nominal)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

