

SPECIFICATION CONTROL DRAWING			5012W5812
<b>CHEMINAX</b>	50 OHM, AWG 12, 7 STRANDS OF AWG 20, WATERBLOCKED, OPTIMIZED SHIELD, TRIAXIAL CABLE	Date	2-25-13
		Revision	R
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 27.0 pF/ft. (nominal) 30.0 pF/ft. (maximum) VELOCITY OF PROPAGATION 78% (nominal) ATTENUATION (maximum) 0.7 dB/100 ft. at 10 MHz 2.3 dB/100 ft. at 100 MHz 5.4 dB/100 ft. at 400 MHz 9.2 dB/100 ft. at 1000 MHz SURFACE TRANSFER IMPEDANCE 700 milliohms/meter (maximum) at .1 MHz - 1 GHz EMP RESPONSE (2ND SHIELD) 60.0 dB (minimum) for 1 meter	
<b>CONDUCTOR</b> AWG 12, 7 Strands of AWG 20, Silver-Coated Copper  <b>DIELECTRIC</b> Rayfoam L Color - Natural  <b>1ST SHIELD</b> AWG 34, Silver-Coated Copper Water Sealant filling shield interstices <b>WATERBLOCK LAYER</b> Non-Woven Polyester  <b>1ST JACKET</b> Zerohal Color - Black  <b>2ND SHIELD</b> AWG 34, Silver-Coated Copper Optimized Water Sealant filling shield interstices <b>WATERBLOCK LAYER</b> Non-Woven Polyester  <b>2ND JACKET</b> Zerohal		<b>ADDITIONAL REQUIREMENTS</b>	
		<b>ELECTRICAL</b> CONDUCTOR RESISTANCE 1.9 ohms/1000 ft. (nominal) INSULATION RESISTANCE (DIELECTRIC) 10,000 megohms (minimum) for 1000 ft. JACKET FLAWS SPARK TEST 1.0 kV (rms) IMPULSE TEST 6.0 kV (peak) VOLTAGE WITHSTAND (DIELECTRIC) CONDUCTOR TO SHIELD 1500 volts (rms) (minimum) SHIELD TO SHIELD 500 volts (rms) (minimum)	
		<b>ENVIRONMENTAL</b> FLAMMABILITY Method B HEAT SHOCK 225°C LOW TEMPERATURE-COLD BEND -30°C/12.00 inch mandrel	
		<b>PHYSICAL</b> INSULATION (DIELECTRIC) ELONGATION 50% (minimum) TENSILE STRENGTH 1000 lbf/in <sup>2</sup> (minimum) 2ND JACKET ELONGATION 150% (minimum) TENSILE STRENGTH 1200 lbf/in <sup>2</sup> (minimum) 1ST SHIELD COVERAGE 90% (minimum) 2ND JACKET THICKNESS .043 inch (nominal) WRAP (EACH) .006 inch thick (nominal)	
Outer jacket color will be black (designated by a "-0" appended to the part number, e.g. 5012W5812-0) unless otherwise specified.		WEIGHT 147. lbs/1000 ft. (nominal)	
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.			
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.			
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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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