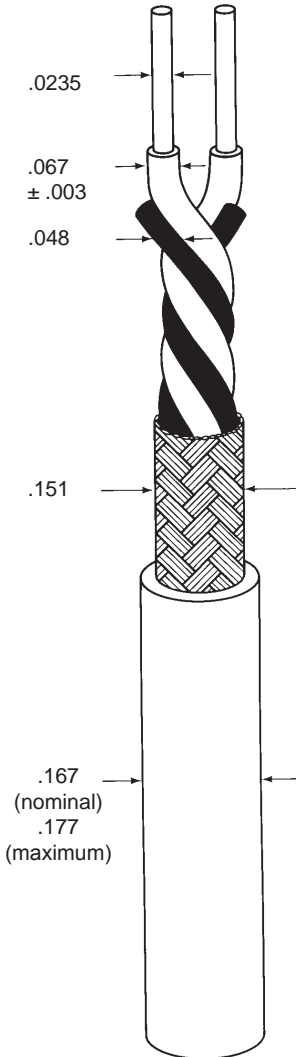


SPECIFICATION CONTROL DRAWING		0024A0666	
CHEMINAX	100 OHM, AWG 24, 19 STRANDS OF AWG 36, OPTIMIZED SHIELD, TWINAXIAL CABLE	Date	5-4-10
		Revision	F
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.			
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS	
DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.  <p>CONDUCTORS AWG 24, 19 strands of AWG 36, Nickel-Coated High-Strength Copper Alloy</p> <p>DIELECTRICS Radiation-Crosslinked, Modified ETFE Colors - Light Blue / White</p> <p>FILLERS Radiation Crosslinked, Modified ETFE</p> <p>SHIELD AWG 38, Silver-Coated High-Strength Copper Alloy Optimized</p> <p>JACKET Radiation-Crosslinked, Modified ETFE</p> <p>Dimensions: .0235 (strand diameter) .067 ± .003 (strand spacing) .048 (dielectric thickness) .151 (shield thickness) .167 (nominal) / .177 (maximum) (jacket thickness)</p>		<p>CHARACTERISTIC IMPEDANCE 100 ± 7 ohms, Method C at 1 MHz</p> <p>MUTUAL CAPACITANCE 16.0 pF/ft. (nominal) 30.0 pF/ft. (maximum)</p> <p>CAPACITANCE UNBALANCE 5% (maximum)</p> <p>ATTENUATION 1.5 dB/100 ft. (maximum) at 1 MHz</p> <p>SURFACE TRANSFER IMPEDANCE 100 milliohms/meter (maximum) per MIL-DTL-85458 at 30 MHz</p>	
		ADDITIONAL REQUIREMENTS	
		COMPONENT WIRE PRIOR TO CABLING (Test Procedures per SAE AS22759)	
		<p>CROSSLINK PROOF 300 ± 3°C for 1 hour, .750 inch mandrel, .750 lb., 2.5 kV dielectric test</p> <p>INSULATION (DIELECTRIC) ELONGATION 50% (minimum) TENSILE STRENGTH 5000 lbf/in² (minimum)</p> <p>INSULATION FLAWS SPARK TEST 3.0 kV (rms) IMPULSE TEST 8.0 kV (peak)</p> <p>INSULATION RESISTANCE 5000 megohms for 1000 ft. (minimum)</p> <p>LOW TEMPERATURE-COLD BEND -65 ± 3°C for 4 hours, .500 inch mandrel, 1.00 lb., 2.5 kV dielectric test</p> <p>SHRINKAGE 200 ± 3°C for 1 hour, .125 inch (maximum) in 12 inches</p>	
		FINISHED CABLE (Test Procedures per NEMA WC27500, unless otherwise specified)	
		<p>BLOCKING 200°C for 6 hours</p> <p>CABLE LAY LENGTH 3.0 inch (maximum)</p> <p>CROSSLINKED VERIFICATION 300 ± 5°C for 6 hours, 6.00 inch mandrel</p> <p>FLAMMABILITY 3 seconds (maximum); 3 inches (maximum); no flaming of facial tissue</p> <p>JACKET ELONGATION 50% (minimum) TENSILE STRENGTH 5000 lbf/in² (minimum)</p> <p>JACKET FLAWS SPARK TEST 1.0 kV (rms) IMPULSE TEST 6.0 kV (peak)</p> <p>JACKET THICKNESS .005 inch (minimum), .008 inch (nominal)</p> <p>LOW TEMPERATURE-COLD BEND -55 ± 5°C for 4 hours, 6.00 inch mandrel</p> <p>SHIELD COVERAGE 90% (minimum)</p> <p>VOLTAGE WITHSTAND (DIELECTRIC) 1500 volts (rms)</p> <p>CABLE LENGTH 100 ft. (minimum)</p> <p>WEIGHT 23.3 lbs/1000 ft. (maximum)</p>	
<p>Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 0024A0666-9) unless otherwise specified.</p> <p>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.</p>			
<p>Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.</p>			
Page 1 of 1		The TE logo, Tyco Electronics, Cheminax and Raychem are trademarks.	



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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.