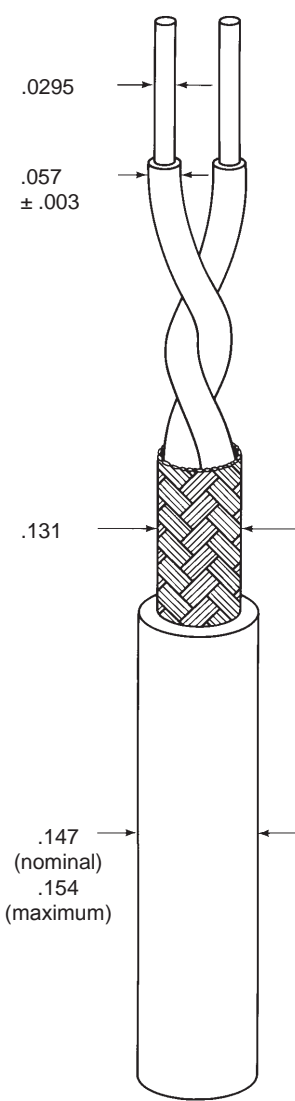


SPECIFICATION CONTROL DRAWING			10599
CHEMINAX	70 OHM, AWG 22, 19 STRANDS OF AWG 34, DATA BUS CABLE, MIL-STD-1553A	Date	3-20-12
		Revision	J
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.			
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS	
<div><p>DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.</p><p><b>CONDUCTORS</b> AWG 22, 19 Strands of AWG 34, Tin-Coated Copper</p><p><b>DIELECTRICS</b> Radiation-Crosslinked, Modified ETFE Color - Light Blue / White</p><p><b>SHIELD</b> AWG 38, Tin-Coated Copper</p><p><b>JACKET</b> Radiation-Crosslinked, Modified ETFE</p></div>		CHARACTERISTIC IMPEDANCE 70 ± 5 ohms, Method C at 1 MHz	
		MUTUAL CAPACITANCE 30 pF/ft. (maximum)	
		ATTENUATION 1.0 dB/100 ft. (maximum) at 1 MHz	
		ADDITIONAL REQUIREMENTS	
		COMPONENT WIRE PRIOR TO CABLING (Test Procedures per SAE AS22759)	
		CROSSLINKING PROOF TEST 300 ± 3°C for 7 hours, .500 inch mandrel, .500 lb., 2.5 kV dielectric test	
		INSULATION (DIELECTRIC) ELONGATION 50% (minimum)	
		TENSILE STRENGTH 5000 lbf/in <sup>2</sup> (minimum)	
		INSULATION FLAWS SPARK TEST 3.0 kV (rms)	
		IMPULSE TEST 8.0 kV (peak)	
		INSULATION RESISTANCE 5000 megohms for 1000 ft. (minimum)	
		LOW TEMPERATURE-COLD BEND -65 ± 3°C for 4 hours, 1.00 inch mandrel, 1.00 lb., 2.5 kV dielectric test	
		SHRINKAGE 200 ± 3°C for 6 hours, .125 inch (maximum) in 12 inches	
		FINISHED CABLE (Test Procedures per NEMA WC 27500 unless otherwise specified)	
		BLOCKING 200°C for 6 hours	
		CABLE LAY LENGTH .75 inch (minimum), 1.25 inch (maximum)	
		CROSSLINKED VERIFICATION 300 ± 5°C for 6 hours, 1.75 inch mandrel	
		FLAMMABILITY (Method B of Spec 1200) 3 seconds (maximum); 3 inch (maximum); no flaming of facial tissue	
		JACKET ELONGATION 50% (minimum)	
		TENSILE STRENGTH 5000 lbf/in <sup>2</sup> (minimum)	
		JACKET FLAWS SPARK TEST 1.0 kV (rms)	
		IMPULSE TEST 6.0 kV (peak)	
		JACKET THICKNESS .008 inch (nominal)	
		LOW TEMPERATURE-COLD BEND -55 ± 5°C for 4 hours, 6.00 inch mandrel	
		SHIELD COVERAGE 90% (minimum)	
		TEMPERATURE RATING -65°C to 150°C	
		VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)	
Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 10599-22-9) unless otherwise specified.		CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color at 12 inch (nominal) intervals as follows: " 10599 - XXXXX " (XXXXX = CAGE code)	
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.		Example: " 10599 - 06090 " for US manufacture " 10599 - K1010 " for UK manufacture	
		WEIGHT	17.6 lbs/1000 ft. (maximum)
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.			
Page 1 of 1	Cheminax, Raychem, TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks.		



Raychem Wire & Cable  
501 Oakside Avenue  
Redwood City, California 94063-3800  
1-800-227-8816 Fax: 1-650-361-6297

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

# Mouser Electronics

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[10599-22-9](#)