

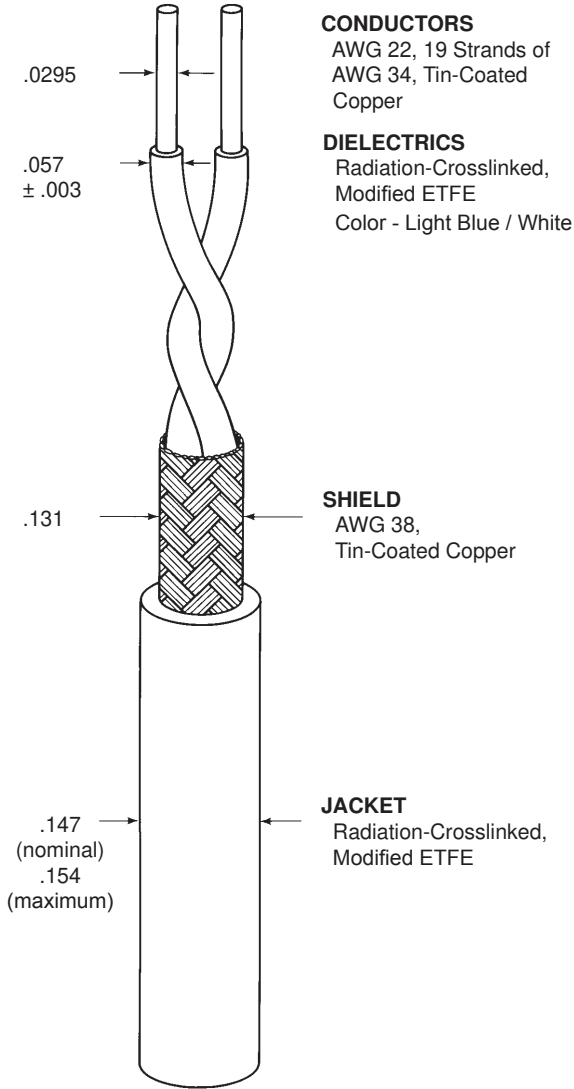
<b>SPECIFICATION CONTROL DRAWING</b>		<b>10599</b>
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<b>CHEMINAX</b>	70 OHM, AWG 22, 19 STRANDS OF AWG 34, DATA BUS CABLE, MIL-STD-1553A	Date	3-20-12
		Revision	J

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

<b>CONSTRUCTION DETAILS</b>	<b>ELECTRICAL CHARACTERISTICS</b>
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DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



**CONDUCTORS**  
AWG 22, 19 Strands of  
AWG 34, Tin-Coated  
Copper

**DIELECTRICS**  
Radiation-Crosslinked,  
Modified ETFE  
Color - Light Blue / White

**SHIELD**  
AWG 38,  
Tin-Coated Copper

**JACKET**  
Radiation-Crosslinked,  
Modified ETFE

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.

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.

CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color at 12 inch (nominal) intervals as follows: " 10599 - XXXXX " (XXXXX = CAGE code)  
Example: " 10599 - 06090 " for US manufacture  
" 10599 - K1010 " for UK manufacture

WEIGHT	17.6 lbs/1000 ft. (maximum)
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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.

