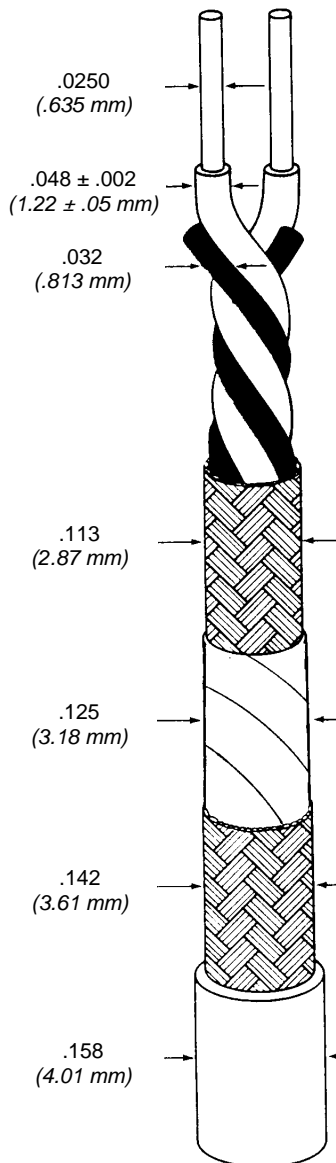


SPECIFICATION CONTROL DRAWING		10614
CHEMINAX	77 OHM, AWG 24, 19 STRANDS OF AWG 36, EMP HARDENED, DATA BUS CABLE, MIL-STD-1553	Date: 8-14-14 Revision: J
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.		
CONSTRUCTION DETAILS		ELECTRICAL CHARACTERISTICS
DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.  <div style="display: flex; justify-content: space-between;"> <div> <p>CONDUCTORS AWG 24, 19 Strands of AWG 36, Silver-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>1st SHIELD AWG 38, Tin-Coated Copper, Optimized</p> <p>WRAP Mu-Metal</p> <p>2nd SHIELD AWG 38, Tin-Coated Copper, Optimized</p> <p>JACKET Radiation-Crosslinked, Modified ETFE</p> </div> <div> <p>.0250 (.635 mm)</p> <p>.048 ± .002 (1.22 ± .05 mm)</p> <p>.032 (.813 mm)</p> <p>.113 (2.87 mm)</p> <p>.125 (3.18 mm)</p> <p>.142 (3.61 mm)</p> <p>.158 (4.01 mm)</p> </div> </div>		CHARACTERISTIC IMPEDANCE 77 ± 5 ohms, Method C at 1 MHz MUTUAL CAPACITANCE 30.0 pF/ft. (98.4 pF/m) (maximum) ATTENUATION 1.4 dB/100 ft. (4.59 dB/100 m) (maximum) at 1 MHz SURFACE TRANSFER IMPEDANCE 0.2 milliohms/meter (maximum) (Per SAE AS85485) at 30 MHz
		ADDITIONAL REQUIREMENTS
		COMPONENT WIRE PRIOR TO CABLING (Test procedures per SAE AS22759)
		CONDUCTOR RESISTANCE 26.5 ohms/1000 ft. (86.9 ohms/km) (nominal) CROSSLINKING PROOF TEST 300 ± 3°C for 1 hour, .625 inch (15.9 mm) mandrel, .375 lb (170 g), 2.5 kV dielectric test INSULATION (DIELECTRIC) ELONGATION 50% (minimum) TENSILE STRENGTH 5000 lbf/in ² (34.5 N/mm ²) (minimum) INSULATION FLAWS SPARK TEST 3.0 kV (rms) IMPULSE TEST 8.0 kV (peak) INSULATION RESISTANCE 5000 megohms for 1000 ft. (1524 megohms-km) (minimum) LOW TEMPERATURE-COLD BEND -65 ± 3°C for 4 hours, .750 inch (19.1 mm) mandrel, 1.00 lb (454 g), 2.5 kV dielectric test SHRINKAGE 200 ± 3°C for 1 hour, .125 inch (3.18 mm) (maximum) in 12 inches (305 mm)
		FINISHED CABLE (Test procedures per NEMA WC 27500, unless otherwise specified)
		BLOCKING 200°C for 6 hours CABLE LAY LENGTH .75 inch (19.1 mm) (minimum), 1.25 inches (31.8 mm) (maximum) CROSSLINKED VERIFICATION 300 ± 5°C for 6 hours, 6.00 inch (152 mm) mandrel FLAMMABILITY 3 seconds (maximum); (Method B of Spec 1200) 3 inches (76.2 mm) (maximum); no flaming of facial tissue JACKET ELONGATION 50% (minimum) TENSILE STRENGTH 5000 lbf/in ² (34.5 N/mm ²) (minimum) JACKET FLAWS SPARK TEST 1.0 kV (rms) IMPULSE TEST 6.0 kV (peak) JACKET THICKNESS .008 inch (.203 mm) (nominal) LOW TEMPERATURE-COLD BEND -55 ± 5°C for 4 hours, 6.00 inch (152 mm) mandrel VOLTAGE WITHSTAND (DIELECTRIC) 1500 volts (rms) WRAP .002 inch (.051 mm) thick (nominal), 25% overlap (minimum) WEIGHT 29.1 lbs/1000 ft. (43.3 kg/km) (maximum) CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color at 12 inch (305 mm) (nominal) intervals between marks as follows: "10614 RAYCHEM"
Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be white (designated by a "-9" appended to the part number and conductor AWG size, e.g. 10614-24-9). Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.		ENGINEERING REFERENCE
		TEMPERATURE RATING 150°C (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.	



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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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