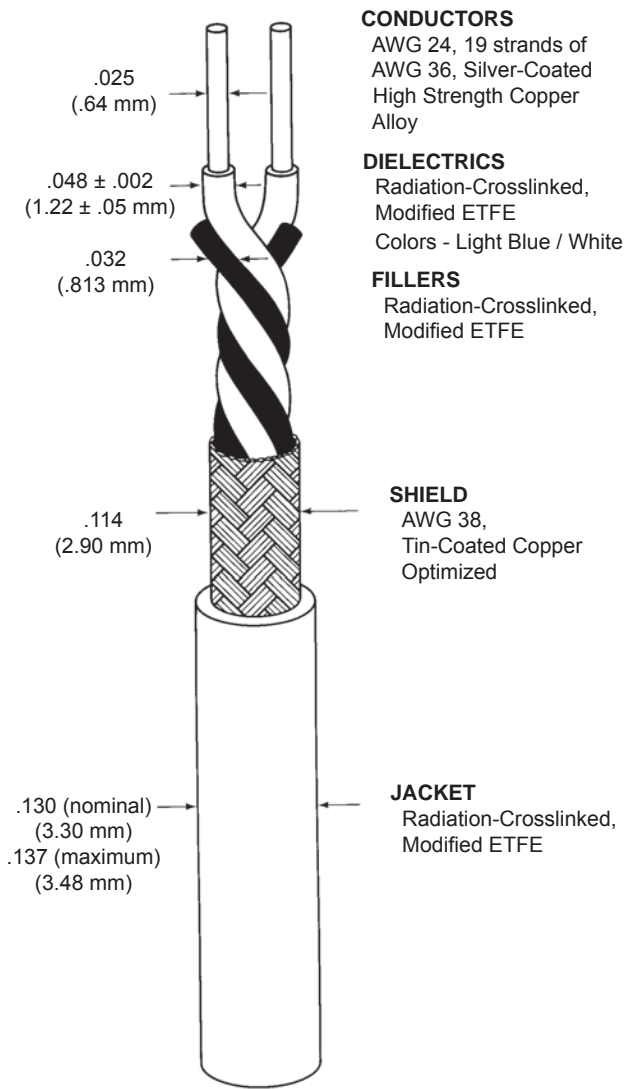


SPECIFICATION CONTROL DRAWING		10612	
CHEMINAX	77 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS CABLE, MIL-STD-1553, OPTIMIZED SHIELD	Date	4-14-09
		Revision	G

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

CONSTRUCTION DETAILS	ELECTRICAL CHARACTERISTICS
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DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED. METRIC UNITS SHOWN IN PARENTHESIS ARE APPROXIMATE EQUIVALENTS IN MILLIMETERS AND ARE FOR INFORMATION ONLY.



CONDUCTORS
AWG 24, 19 strands of AWG 36, Silver-Coated High Strength Copper Alloy

DIELECTRICS
Radiation-Crosslinked, Modified ETFE
Colors - Light Blue / White

FILLERS
Radiation-Crosslinked, Modified ETFE

SHIELD
AWG 38, Tin-Coated Copper Optimized

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE	30 pF/ft. (98 pF/m) (maximum)
ATTENUATION	1.4 dB/100 ft. (4.6 dB/100 m) (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE (Per SAE AS85485 at 30 MHz)	100 milliohms/meter (maximum)

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Test Procedures per SAE AS22759)	
CROSSLINK PROOF	300 ± 3°C for 7 hours, .500 inch (12.7 mm) mandrel, .375 lb. (170 g), 2.5 kV dielectric test
INSULATION (DIELECTRIC) ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (34 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. (1525 megohms-km) (minimum)
LOW TEMPERATURE-COLD BEND	-65 ± 2°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 6 hours, .125 inch (3.2 mm) (maximum) in 12 inches (300 mm)

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, 1.25 inches (31.8 mm) mandrel
FLAMMABILITY (Method B of Spec 1200)	3 seconds (maximum); 3 inches (76 mm) (maximum); no flaming of facial tissue
JACKET ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (34 N/mm ²) (minimum)
JACKET FLAWS	
SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
JACKET THICKNESS	.008 inch (.2 mm) (nominal)
LOW TEMPERATURE-COLD BEND	-65 ± 2°C for 4 hours, 3.00 inch (76 mm) mandrel
SHIELD COVERAGE	90% (minimum)
VOLTAGE WITHSTAND (DIELECTRIC)	1000 volts (rms) (minimum)

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 10612-9) 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 between marks as follows: " 10612 RAYCHEM "

WEIGHT 15.9 lbs/1000 ft. (23.7 kg/km) (maximum)

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.



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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.