

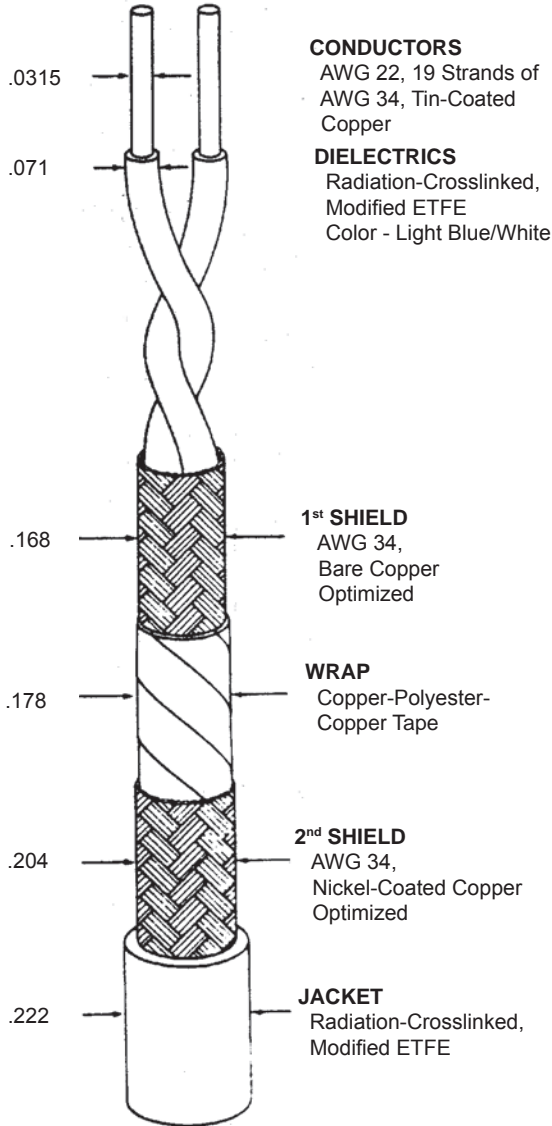
SPECIFICATION CONTROL DRAWING		8522C8661
--------------------------------------	--	------------------

CHEMINAX	85 OHM, AWG 22, 19 STRANDS OF AWG 34, EMP HARDENED, DATA BUS CABLE	Date	11-12-07
		Revision	H

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.



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

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

CHARACTERISTIC IMPEDANCE	85 ± 5 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE	20.0 pF/ft. (nominal) 22.5 pF/ft. (maximum)
ATTENUATION	1.0 dB/100 ft. (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE	30 milliohms/meter (maximum) from 0.1 MHz to 100 MHz

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Test procedures per SAE AS22759)

CROSSLINK PROOF	300 ± 3°C for 1 hour, .875 inch mandrel, .625 lb., 2.5 kV dielectric test
INSULATION (DIELECTRIC) ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (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, .750 inch mandrel, 1.00 lb., 2.5 kV dielectric test
SHRINKAGE	200 ± 3°C for 1 hour, .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	.80 inch (minimum), 1.00 inch (maximum)
CROSSLINKED VERIFICATION	300 ± 5°C for 6 hours, 6.00 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 ² (minimum)
JACKET FLAWS SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
JACKET THICKNESS	.009 (nominal)
LOW TEMPERATURE-COLD BEND	-55 ± 5°C for 4 hours, 6.00 inch mandrel
SHIELD COVERAGE (EACH)	90% (minimum)
VOLTAGE WITHSTAND (DIELECTRIC)	1500 volts (rms)
WRAP	.0024 inch thick (nominal), .500 inch width (nominal), 25% overlap (minimum)
WEIGHT	53.7 lbs/1000 ft. (nominal)

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 8522C8661-9) 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.

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.

The TE logo, Tyco Electronics, Cheminax and Raychem are trademarks.



Raychem Wire & Cable
501 Oaks 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.