SPECIFICATION CONTROL DRAWING

CHEMINAX

.032

.064

.149

.165

(nominal)

.173

(maximum)

± .003

77 OHM, AWG 22, 19 STRANDS OF AWG 34. DATA BUS CABLE, MIL-STD-1553

11-2-07 Date Н Revision

10605

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

SHIELD

AWG 36 Tin-Coated Copper

JACKET

Radiation-Crosslinked, Modified ETFE

CHARACTERISTIC IMPEDANCE 77 ± 5 ohms, Method C at 1 MHz

MUTUAL CAPACITANCE 30.0 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)

CROSSLINK PROOF 300 ± 3°C for 1 hour, .750 inch mandrel,

.500 lb., 2.5 kV dielectric test INSULATION (DIELECTRIC)

ELONGATION 50% (minimum)

TENSILE STRENGTH 5000 lbf/in2 (minimum) **INSULATION FLAWS**

SPARK TEST 3.0 kV (rms) **IMPULSE TEST** 8.0 kV (peak)

5000 megohms for 1000 ft. (minimum) INSULATION RESISTANCE 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 .75 inch (minimum), 1.25 inch (maximum)

CROSSLINKED VERIFICATION 300 ± 5°C for 6 hours, 6.00 inch mandrel **FLAMMABILITY** 3 seconds (maximum); 3 inch (maximum);

no flaming of facial tissue (Method B of Spec 1200)

JACKET ELONGATION 50% (minimum)

TENSILE STRENGTH 5000 lbf/in2 (minimum) JACKET FLAWS

SPARK TEST 1.0 kV (rms) **IMPULSE TEST** 6.0 kV (peak) .008 inch (nominal) JACKET THICKNESS

-55 ± 5°C for 4 hours, 6.00 inch mandrel LOW TEMPERATURE-COLD BEND

SHIELD COVERAGE 90% (minimum) 1500 volts (rms) **VOLTAGE WITHSTAND**

(DIELECTRIC)

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 10605-9) 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.

WEIGHT 21.9 lbs/1000 ft. (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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