**CHEMINAX** 

DATA BUS MIL-STD-1553. EMP HARDENED, 70 OHM, AWG 22 Date:

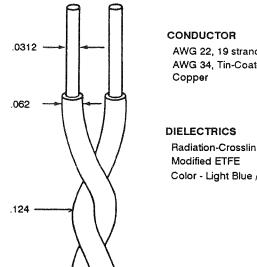
3-10-92

Revision: J

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

## CONSTRUCTION DETAILS

#### DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



AWG 22, 19 strands of AWG 34, Tin-Coated

Radiation-Crosslinked, Color - Light Blue / White

## 1ST SHIELD

AWG 34. Bare Copper

# WRAP

2ND SHIELD

Nickel-Coated Copper

Radiation-Crosslinked,

Modified ETFE

AWG 34

JACKET

Copper Mylar-Copper

COLD BEND

(Per Raychem Spec. 55A,

(DIELECTRIC)

**ELONGATION** 

SHIELD COVERAGE (EACH)

### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC IMPEDANCE

MUTUAL CAPACITANCE

**ATTENUATION** 

70 ± 7 ohms, Method C at 1 MHz

30 pF/ft. (maximum)

1.0 dB/100 ft. (maximum) at 1 MHz

## ADDITIONAL REQUIREMENTS

#### COMPONENT WIRE PRIOR TO CABLING (Per MiL-W-22759)

ACCELERATED AGING (Per MIL-W-22759 Life Cycle Procedure)

LOW TEMPERATURE -

COLD BEND

SHRINKAGE

INSULATION RESISTANCE

INSULATION (DIELECTRIC) **ELONGATION** 

TENSILE STRENGTH IMPULSE DIELECTRIC TEST 300 ± 3°C for 7 hours, .750 inch mandrel, .500 lb, 2.5 kV

dielectric test

-65 ± 2°C for 4 hours, .750 inch mandrel, 1.00 lb, 2.5 kV

dielectric test

200 ± 3°C for 6 hours, .125 inch

(maximum) in 12 inches

5000 megohms for 1000 ft. (minimum)

50% (minimum) 5000 lbf/in2 (minimum) 8.0 kV (peak),100% test

#### FINISHED CABLE (Per MIL-C-27500)

BLOCKING

LOW TEMPERATURE-

CROSSLINKED VERIFICATION

**FLAMMABILITY** 

Procedure 1) JACKET FLAWS **VOLTAGE WITHSTAND** 

JACKET THICKNESS

JACKET

TENSILE STRENGTH

WRAP

150°C for 6 hours -55 ± 5°C for 4 hours, 6 inch mandrel

300 ± 5°C for 6 hours, 6.00 inch mandrel, .500 lb, 1.0 kV dielectric test

3 seconds (maximum); 3 inch (maximum); no flaming of

facial tissue

1000 volts (rms), 60 Hz, 100% test 1000 volts (rms), (minimum)

.009 inch (nominal)

50% (minimum) 5000 lbf/in2 (minimum)

90% (minimum) .0024 inch thick (nominal),

25% overlap (minimum)

The length of lay shall be .75 inches (minimum) to 1.25 inches (maximum) Outer jacket color will be white (designated by a \*-9" appended to the part number, e.g. 10600-9) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681

WEIGHT

46.6 lbs/1000 ft. (nominal)

Raychem

.150

.160

.186

.204

(nominal)

216

(maximum)

Raychem Corporation 300 Constitution Drive Menio Park, California 94025 (415) 361 3333 TWX 910 373 1728 THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HERIN REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.