SPECIFICATION CONTROL DRAWING 7528F8614

CHEMINAX

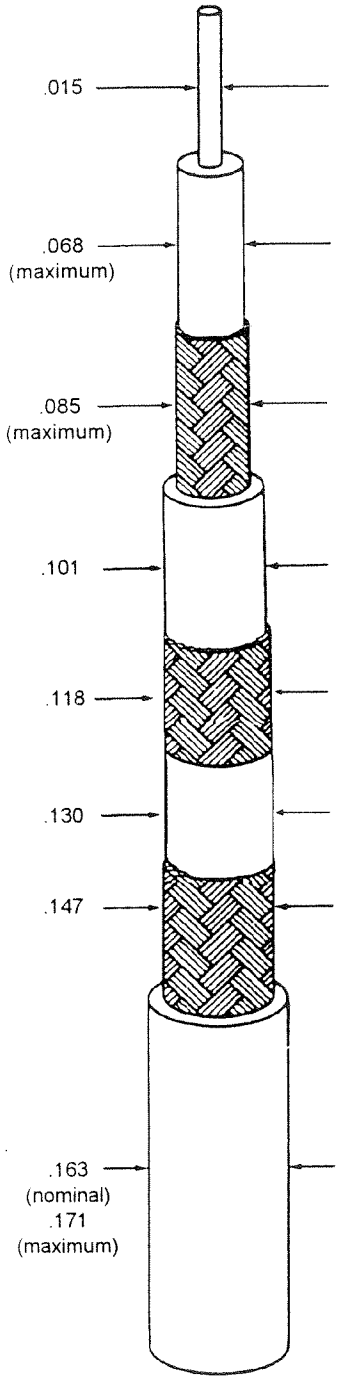
75 OHM, AWG 28, 7 STRANDS OF AWG 36,
TRIAXIAL CABLE, SUPERSCREEN

Date: 1-6-97
Revision: D

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.



CONDUCTOR
AWG 28, 7 Strands of AWG 36, Silver-Coated High Strength Copper Alloy

DIELECTRIC
Rayfoam® L
Color - Natural

1ST SHIELD
AWG 38,
Silver-Coated Copper

1ST JACKET
Radiation Crosslinked, Modified ETFE
Color - White

2ND SHIELD
AWG 38,
Silver-Coated Copper
Optimized

WRAP
Mumetal Tape

3RD SHIELD
AWG 38,
Silver-Coated Copper
Optimized

2ND JACKET
Radiation Crosslinked, Modified ETFE

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 7528F8614-9) unless otherwise specified.

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

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE	75 ± 5 ohms, Method B
CAPACITANCE	17.1 pF/ft. (nominal) at 1 kHz 19.5 pF/ft. (maximum) at 1 kHz
VELOCITY OF PROPAGATION	79% (nominal)
SURFACE TRANSFER IMPEDANCE (per MIL-C-85485)	1.99 milliohms/meter (maximum) at 500 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE	74.0 ohms/1000 ft. (nominal)
INSULATION RESISTANCE (CONDUCTOR TO SHIELD)	10,000 megohms (minimum) for 1000 ft.
JACKET FLAWS	
SPARK TEST	1.0 kV (rms), 60 Hz
IMPULSE TEST	6.0 kV, (peak)
VOLTAGE WITHSTAND (DIELECTRIC)	
CONDUCTOR TO SHIELD	1500 volts (rms) (minimum)
1st SHIELD TO 2nd SHIELD	500 volts (rms) (minimum)

ENVIRONMENTAL

AGING STABILITY	135°C/-55°C/4.25 inch mandrel
FLAMMABILITY	Method B
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/4.25 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	800 lbf/in² (minimum)
JACKET (EACH)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in² (minimum)
JACKET THICKNESS (EACH)	.006 inch (minimum) .008 inch (nominal)
SHIELD COVERAGE (1ST)	90% (minimum)
WRAP	.002 inch thick (nominal), 25% (minimum) overlap

WEIGHT	29.4 lbs/1000 ft. (nominal)

Raychem

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