SPECIFICATION CONTROL DRAWING

CHEMINAX

78 OHM, AWG 20, 19 STRANDS OF AWG 32, TWINAXIAL CABLE

Date:

7820D0831

Revision: С

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.

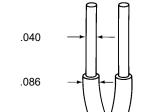
CHARACTERISTIC IMPEDANCE

78 ± 7 ohms, Method C at 1 MHz

CAPACITANCE

CONDUCTOR TO CONDUCTOR 18.8 pF/ft. (nominal)

VELOCITY OF PROPAGATION 67% (nominal)



.193

243

CONDUCTORS

DIELECTRICS

Rayolin F

SHIELD AWG 36,

JACKET

7erohal

Tin-Coated Copper

AWG 20 19 Strands of AWG 32, **Tin-Coated Copper**

Colors - Light Blue/White

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE

10.4 ohms/1000 ft. (nominal)

(prior to cabling)

INSULATION RESISTANCE

10,000 megohms (minimum)

for 1000 ft.

JACKET FLAWS

1.0 kV (rms) SPARK TEST IMPULSE TEST 6.0 kV (peak)

VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY

Method B, 60 seconds (maximum)

Afterburn: 3 inch (maximum)

burn length

HEAT SHOCK

225°C

LOW TEMPERATURE-COLD BEND

-30°C/7.00 inch mandrel

VOLTAGE WITHSTAND

1000 volts (rms), 1 minute

(Post Environmental)

PHYSICAL

INSULATION (DIELECTRIC)

(prior to cabling)

ELONGATION TENSILE STRENGTH 200% (minimum)

1800 lbf/in² (minimum)

ELONGATION TENSILE STRENGTH

SHIELD COVERAGE

150% (minimum)

1200 lbf/in² (minimum)

JACKET THICKNESS

.025 inch (nominal) 90% (minimum)

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be black designated by a "-0" appended to the part number, e.g. 7820D0831-0.

Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

WEIGHT

33.7 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING

105°C (maximum)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation 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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