SPECIFICATION CONTROL DRAWING



.0120

(nominal)

.013

(maximum)

.072

(nominal)

.074

(maximum)

.089

(nominal)

.091 (maximum)

.113

(nominal)

.119 (maximum)

.130

(nominal)

.136 (maximum)

.146

(nominal)

.153 (maximum) 95 OHM, AWG 30, 7 STRANDS OF AWG 38, TRIAXIAL CABLE

	1000
Date	2-26-13
Revision	D

10598

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE

CONDUCTOR

Alloy

1st SHIELD

1st JACKET

Modified FEP

Color - Clear

2nd SHIELD

AWG 38.

2nd JACKET

Modified FEP

Tin-Coated Copper

AWG 38

DIELECTRIC

Rayfoam H

Color - White

Tin-Coated Copper

High-Strength Copper

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE **CAPACITANCE** AWG 30, 7 Strands of AWG 38, Silver-Coated

95 ± 5 ohms, Method B 13.5 pF/ft. (nominal) 14.6 pF/ft. (maximum)

VELOCITY OF PROPAGATION 80% (nominal)

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 116. ohms/1000 ft. (nominal) **INSULATION RESISTANCE** 10,000 megohms (minimum) (CONDUCTOR TO SHIELD) for 1000 ft.

JACKET FLAWS

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

VOLTAGE WITHSTAND

CONDUCTOR TO SHIELD 1000 volts (rms) (minimum) SHIELD TO SHIELD 500 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY Method B **HEAT SHOCK** 225°C

LOW TEMPERATURE-COLD BEND -55°C/4.00 inch mandrel **VOLTAGE WITHSTAND** 1000 volts (rms), 1 minute

(Post Environmental)

PHYSICAL

INSULATION (DIELECTRIC)

ELONGATION 50% (minimum) TENSILE STRENGTH 600 lbf/in2 (minimum)

JACKET (EACH)

ELONGATION 200% (minimum) **TENSILE STRENGTH** 2000 lbf/in2 (minimum) 1st JACKET THICKNESS .012 inch (nominal) 2nd JACKET THICKNESS .006 inch (minimum) .008 inch (nominal)

SHIELD COVERAGE (EACH)

90% (minimum)

"-9X)" appended to the part number, e.g. 10598-30-9X) unless

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.

WEIGHT

otherwise specified.

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requirements imposed by the purchase order.

Outer jacket color will be translucent white (designated by a

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

21.1 lbs/1000 ft. (maximum)