## SPECIFICATION CONTROL DRAWING



.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**

# **ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.

CONDUCTOR
AWG 30, 7 Strands of AWG 38, Silver-Coated High-Strength Copper Alloy

**DIELECTRIC** 

1st SHIELD

1st JACKET

Modified FEP

Color - Clear

2<sup>nd</sup> SHIELD

AWG 38.

2<sup>nd</sup> JACKET

Modified FEP

Tin-Coated Copper

**AWG 38** 

Rayfoam H

Color - White

Tin-Coated Copper

CHARACTERISTIC IMPEDANCE 95 ± 5 ohms, Method B
CAPACITANCE 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)

Outer jacket color will be translucent white (designated by a "-9X)" appended to the part number, e.g. 10598-30-9X) 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.

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

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21.1 lbs/1000 ft. (maximum)