## SPECIFICATION CONTROL DRAWING

**CHEMINAX** 

77 OHM, AWG 24, 19 STRANDS OF AWG 36, DOUBLE OPTIMIZED SHIELDS, DATA BUS CABLE

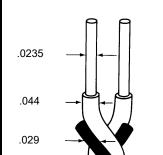
Date: 8-8-18
Revision: F

7724R3524

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.



.101

.114

.130

#### **CONDUCTORS**

AWG 24, 19 Strands of AWG 36, Silver-Coated High-Strength Copper Alloy

#### **DIELECTRICS**

Foamed FEP Colors - Light Blue/White

#### FILLERS

Radiation-Crosslinked, Modified ETFE

### 1st SHIELD - Optimized AWG 40.

Silver-Coated High-Strength Copper Alloy

## 2nd SHIELD - Optimized

AWG 40, Silver-Coated High-Strength Copper Alloy

## JACKET

UXL-ETFE

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be white designated by a "-9" appended to the part number, e.g. 7724R3524-9.

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

## **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC IMPEDANCE 77 ± 5 ohms, Method C at 1 MHz

MUTUAL CAPACITANCE 18 pF/ft. (nominal)
VELOCITY OF PROPAGATION 80% (nominal)

ATTENUATION 1.4 dB/100 ft. (maximum) at 1 MHz

SURFACE TRANSFER IMPEDANCE

(Curve is defined by the following points)

30 mΩ/meter (max), dc to 2 MHz
(dc resistance to 100 kHz determined by dc resistance measurement)
10 mΩ/meter (max), 2 MHz to 20 MHz
20 mΩ/meter (max), 20 MHz to 30 MHz

## **ADDITIONAL REQUIREMENTS**

#### **ELECTRICAL**

CONDUCTOR RESISTANCE 27.8 ohms/1000 ft. (nominal)

(prior to cabling)

INSULATION RESISTANCE 10,000 megohms (minimum) for 1000 ft.

JACKET FLAWS

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

VOLTAGE WITHSTAND 500 volts (rms) (minimum)

(DIELECTRIC)

## **ENVIRONMENTAL**

FLAMMABILITY Method B

LOW TEMPERATURE-COLD BEND -55°C/3.50 inch mandrel

VOLTAGE WITHSTAND 1000 volts (rms), 1 minute

(Post Environmental)

## **PHYSICAL**

CABLE LAY LENGTH .75 inch (minimum),

1.25 inches (maximum)

INSULATION (DIELECTRIC)

(prior to cabling)

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

JACKET

ELONGATION 150% (minimum)
TENSILE STRENGTH 5000 lbf/in² (minimum)

JACKET THICKNESS .008 inch (nominal)

ACKET THICKNESS .000 HIGH (HOHIIII)

WEIGHT 16.6 lbs/1000 ft. (nominal)

## **ENGINEERING REFERENCE**

TEMPERATURE RATING 150°C (maximum)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. TE Connectivity also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

Page 1 of 1

 $\label{thm:cheminax} \mbox{Cheminax, Raychem, TE Connectivity, and TE connectivity (logo) are trademarks.}$ 



Raychem Wire & Cable 501 Oakside Avenue Redwood City, California 94063-3800 Phone: 1-800-522-6752 Fax: 1-650-361-6297 THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

## 单击下面可查看定价,库存,交付和生命周期等信息

# >>TE Connectivity(泰科)