

SPECIFICATION CONTROL DRAWING

9424A0421

CHEMINAX

94 OHM, AWG 24, 19 STRANDS OF AWG 36, TWINAXIAL CABLE

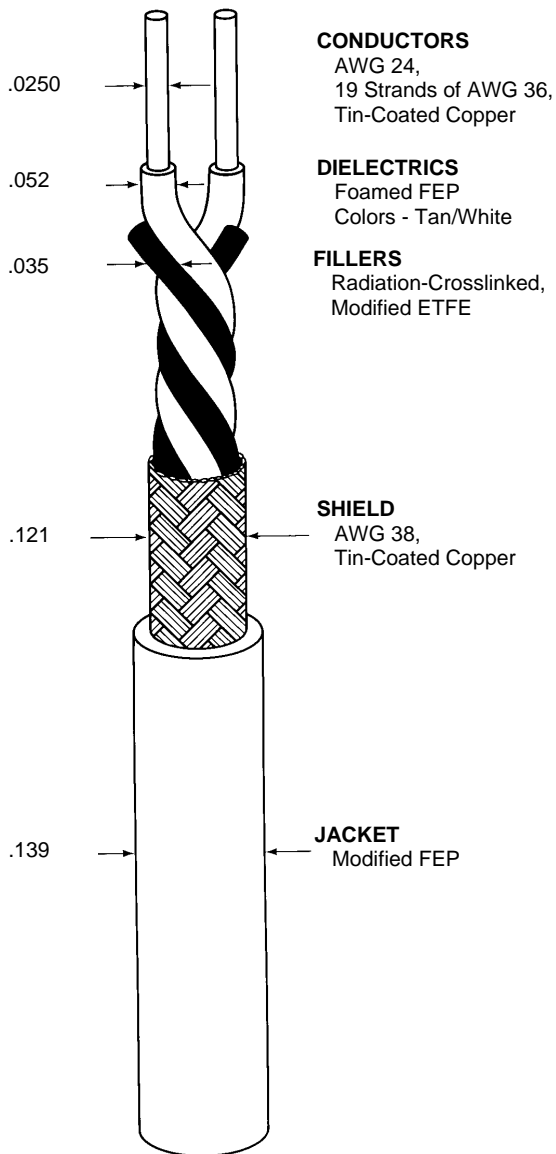
Date: 3-1-17
Revision: B

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.



CONDUCTORS
AWG 24,
19 Strands of AWG 36,
Tin-Coated Copper

DIELECTRICS
Foamed FEP
Colors - Tan/White

FILLERS
Radiation-Crosslinked,
Modified ETFE

SHIELD
AWG 38,
Tin-Coated Copper

JACKET
Modified FEP

CHARACTERISTIC IMPEDANCE 94 +7, -4 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE 18.0 pF/ft. (nominal)
VELOCITY OF PROPAGATION 80% (nominal)

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 24.8 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 (DIELECTRIC) 1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY Method B
HEAT SHOCK 225°C
LOW TEMPERATURE-COLD BEND -55°C/3.75 inch mandrel
VOLTAGE WITHSTAND 1000 volts (rms), 1 minute
(Post Environmental)

PHYSICAL

INSULATION (DIELECTRIC)
(prior to cabling)
ELONGATION 50% (minimum)
TENSILE STRENGTH 600 lbf/in² (minimum)
JACKET
ELONGATION 200% (minimum)
TENSILE STRENGTH 2000 lbf/in² (minimum)
JACKET THICKNESS .009 inch (nominal)
SHIELD COVERAGE 90% (minimum)

CABLE IDENTIFICATION: Place marker tape under jacket and mark in contrasting color at 12 inch (nominal) intervals as follows:
"9424A0421-9X 06090"

WEIGHT 16.2 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING 150°C (maximum)

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Outer jacket color will be translucent white designated by a "-9X" appended to the part number, (e.g. 9424A0421-9X). 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.

