

SPECIFICATION CONTROL DRAWING

2024J2424

CHEMINAX

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

Date: 12-19-16
Revision: D

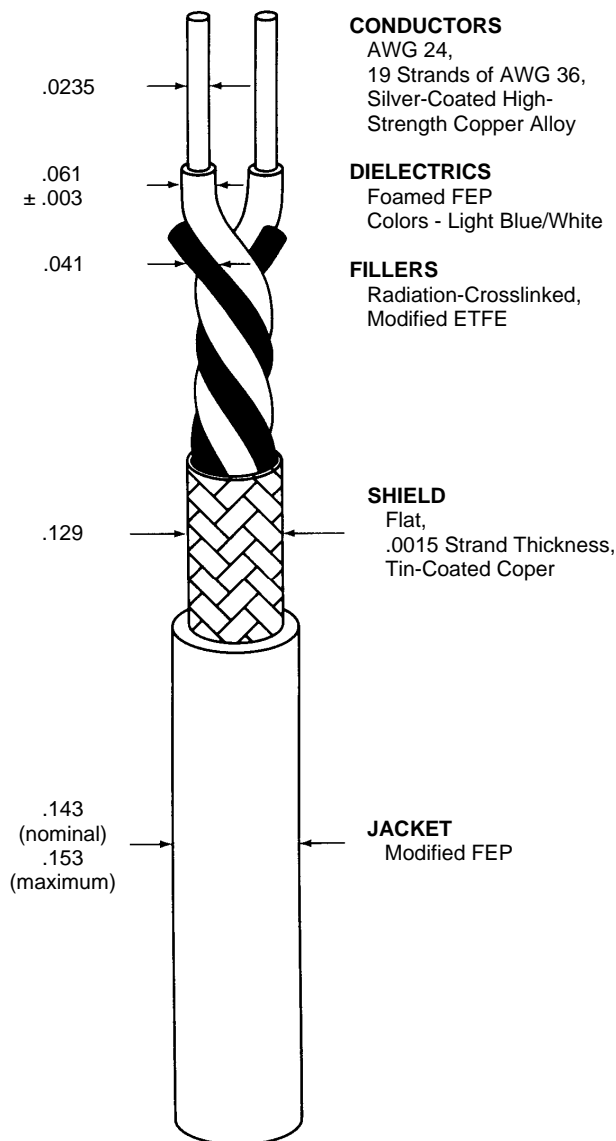
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

| | |
|--------------------------|---|
| CHARACTERISTIC IMPEDANCE | 120 ± 12 ohms, Method D at 1 MHz with shield grounded |
| MUTUAL CAPACITANCE | 12.7 pF/ft. (nominal) 18.2 pF/ft. (maximum) |
| VELOCITY OF PROPAGATION | 77% (nominal) |



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

SHIELD
Flat,
.0015 Strand Thickness,
Tin-Coated Copper

JACKET
Modified FEP

ADDITIONAL REQUIREMENTS

ELECTRICAL

| | |
|---|---------------------------------------|
| CONDUCTOR RESISTANCE (prior to cabling) | 27.8 ohms/1000 ft. (nominal) |
| 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) | 1500 volts (rms) (minimum) |

ENVIRONMENTAL

| | |
|--|----------------------------|
| FLAMMABILITY | Method B |
| HEAT SHOCK | 225°C |
| LOW TEMPERATURE-COLD BEND | -55°C/4.00 inch mandrel |
| VOLTAGE WITHSTAND (Post Environmental) | 1000 volts (rms), 1 minute |

PHYSICAL

| | |
|--|------------------------------------|
| INSULATION (DIELECTRIC) (prior to cabling) | |
| ELONGATION | 50% (minimum) |
| TENSILE STRENGTH | 600 lbf/in ² (minimum) |
| JACKET | |
| ELONGATION | 200% (minimum) |
| TENSILE STRENGTH | 2000 lbf/in ² (minimum) |
| JACKET THICKNESS | .007 inch (nominal) |
| SHIELD COVERAGE | 92% (minimum) |

| | |
|--------|-----------------------------|
| WEIGHT | 14.5 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. Unless otherwise specified, outer jacket color will be translucent white designated by a "-9X" appended to the part number, (e.g. 2024J2424-9X). 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.

