

SPECIFICATION CONTROL DRAWING

0024S1614

CHEMINAX

100 OHM, AWG 24, 19 STRANDS OF AWG 36,
TWINAXIAL CABLE, OUTER SPACE USE

Date

8-29-07

Revision

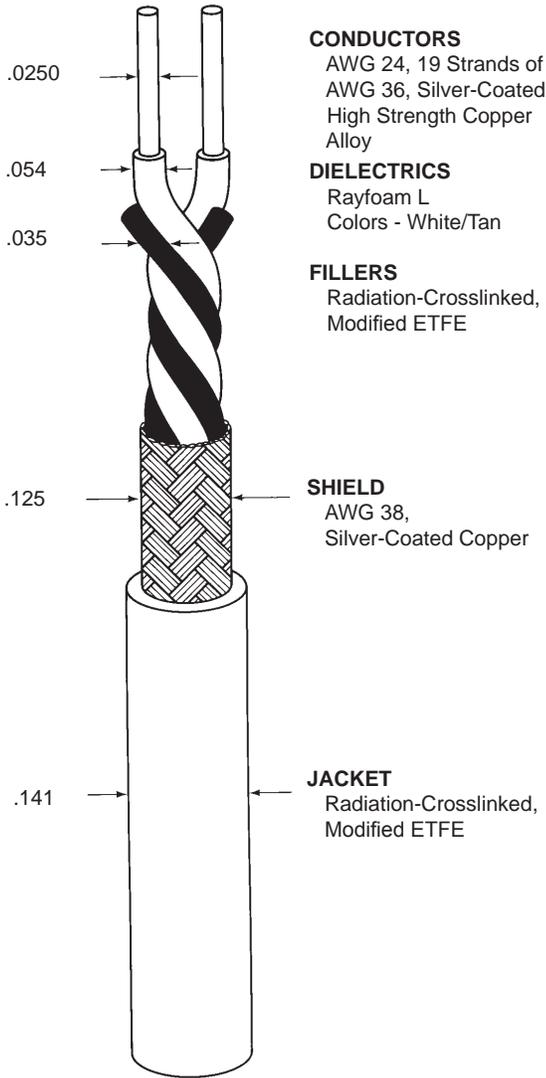
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THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



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

DIELECTRICS
Rayfoam L
Colors - White/Tan

FILLERS
Radiation-Crosslinked,
Modified ETFE

SHIELD
AWG 38,
Silver-Coated Copper

JACKET
Radiation-Crosslinked,
Modified ETFE

| | |
|--------------------------|---------------------------------|
| CHARACTERISTIC IMPEDANCE | 100 ± 7 ohms, Method C at 1 MHz |
| MUTUAL CAPACITANCE | 13.5 pF/ft. (nominal) |
| VELOCITY OF PROPAGATION | 76% (nominal) |

ADDITIONAL REQUIREMENTS

ELECTRICAL

| | |
|--|--|
| CONDUCTOR RESISTANCE | 26.5 ohms/1000 ft. (nominal) |
| INSULATION RESISTANCE | 10,000 megohms (minimum) for 1000 ft. |
| JACKET FLAWS SPARK TEST IMPULSE TEST | 1.0 kV (rms) 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/4.00 inch mandrel |
| VOLTAGE WITHSTAND (Post Environmental) | 1000 volts (rms), 1 minute |

PHYSICAL

| | |
|---|------------------------------------|
| INSULATION (DIELECTRIC) (Prior to Cabling) | |
| ELONGATION | 50% (minimum) |
| TENSILE STRENGTH | 1000 lbf/in ² (minimum) |
| JACKET ELONGATION | 50% (minimum) |
| TENSILE STRENGTH | 5000 lbf/in ² (minimum) |
| JACKET THICKNESS | .008 inch (nominal) |
| SHIELD COVERAGE | 90% (minimum) |
| WEIGHT | 14.6 lbs/1000 ft. (nominal) |

OUTER SPACE REQUIREMENTS

| | |
|---|------------------------------------|
| RADIATION RESISTANCE | 500 megarads/4.25 inch mandrel |
| VACUUM STABILITY TOTAL MASS LOSS (TML) VOLATILE CONDENSABLE MATERIAL (VCM) | 1.00% (maximum) 0.10% (maximum) |

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 0024S1614-9) 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 also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

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