

SPECIFICATION CONTROL DRAWING

0024K0214

CHEMINAX

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

Date: 5-25-23
Revision: D

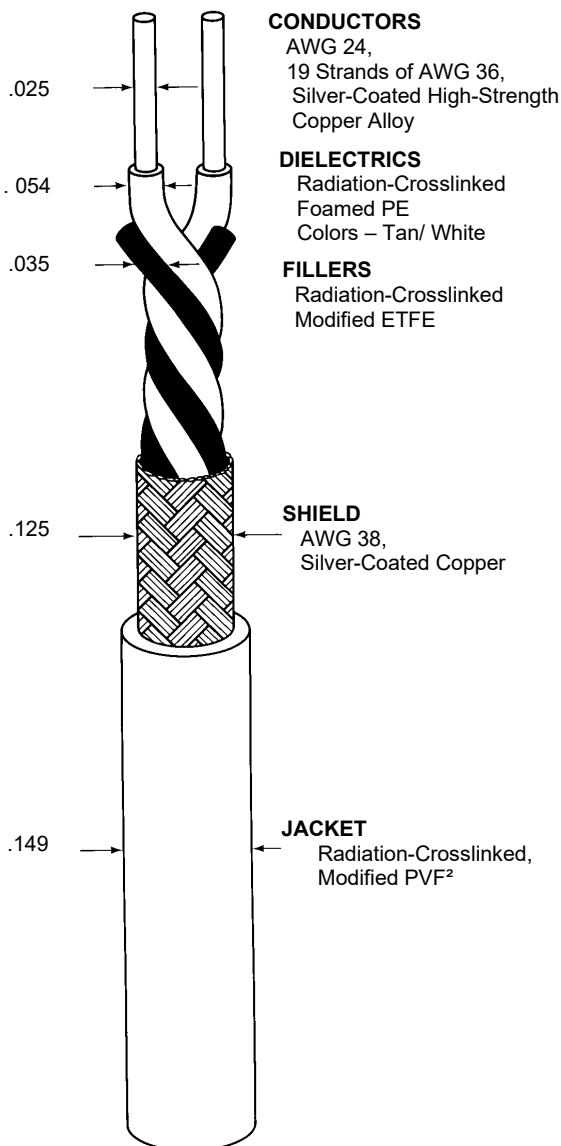
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

CHARACTERISTIC IMPEDANCE 100 ± 7 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE 14.5 pF/ft. (nominal) at 1 MHz
VELOCITY OF PROPAGATION 76% (nominal)



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

DIELECTRICS
Radiation-Crosslinked
Foamed PE
Colors – Tan/ White

FILLERS
Radiation-Crosslinked
Modified ETFE

SHIELD
AWG 38,
Silver-Coated Copper

JACKET
Radiation-Crosslinked,
Modified PVF₂

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE 26.5 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 1000 volts rms)
(DIELECTRIC)

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)
(prior to cabling)
ELONGATION 50% (minimum)
TENSILE STRENGTH 1000 lbf/in² (minimum)
JACKET
ELONGATION 200% (minimum)
TENSILE STRENGTH 4000 lbf/in² (minimum)
JACKET THICKNESS .012 inch (nominal)
SHIELD COVERAGE 90% (minimum)
WEIGHT 15.9 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

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

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 0024K0214-9), 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.

ENGINEERING REFERENCE

TEMPERATURE RATING 200°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.

