SPECIFICATION CONTROL DRAWING

0024K0214

CHEMINAX

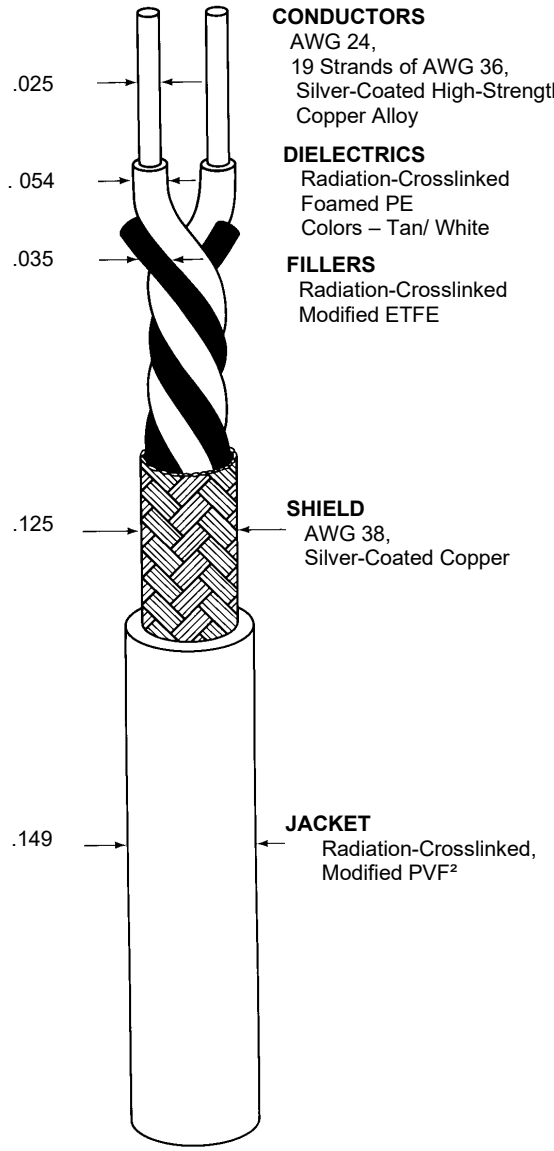
100 OHM, AWG 24, 19 STRANDS OF AWG 36,
TWINAXIAL CABLE, OUTER SPACE USE

Date: 5-25-23
Revision: D

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



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.

ELECTRICAL CHARACTERISTICS

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)

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling)	26.5 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)	1000 volts rms)

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	200% (minimum)
TENSILE STRENGTH	4000 lbf/in^2 (minimum)
JACKET THICKNESS	.012 inch (nominal)
SHIELD COVERAGE	90% (minimum)
WEIGHT	15.9 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

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

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.

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