

SPECIFICATION CONTROL DRAWING

5021F1031

CHEMINAX

50 OHM, AWG 21, 19 STRANDS OF AWG 33,
COAXIAL CABLE

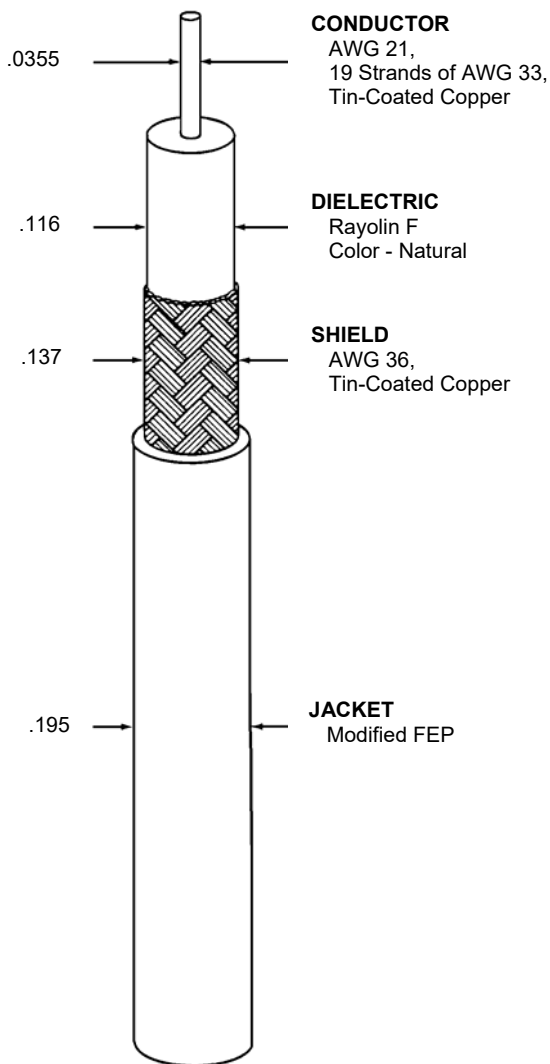
Date: 10-24-19
Revision: M

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	50 ± 2 ohms, Method A
CAPACITANCE	30.8 pF/ft. (nominal)
VELOCITY OF PROPAGATION	66% (nominal)

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE	11.7 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) (minimum)

ENVIRONMENTAL

FLAMMABILITY	Method B
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/5.50 inch mandrel
UV LASER MARK CONTRAST	For 5021F1031-9LM only:
FULL MASK LASER	67% (minimum)
DOT MATRIX LASER	60% (minimum)
VOLTAGE WITHSTAND (Post Environmental)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC)	
ELONGATION	200% (minimum)
TENSILE STRENGTH	1800 lbf/in ² (minimum)
JACKET	
ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in ² (minimum)
JACKET THICKNESS	.029 inch (nominal)
SHIELD COVERAGE	90% (minimum)

WEIGHT 29.8 lbs/1000 ft. (nominal)

ENGINEERING REFERENCE

TEMPERATURE RATING 110°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. 5021F1031-9X.

A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 5021F1031-9LM.

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. 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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