

SPECIFICATION CONTROL DRAWING

0026G8424

CHEMINAX

100 OHM, AWG 26, 19 STRANDS OF AWG 38, TWINAXIAL CABLE

Date: 5-19-21

Revision: B

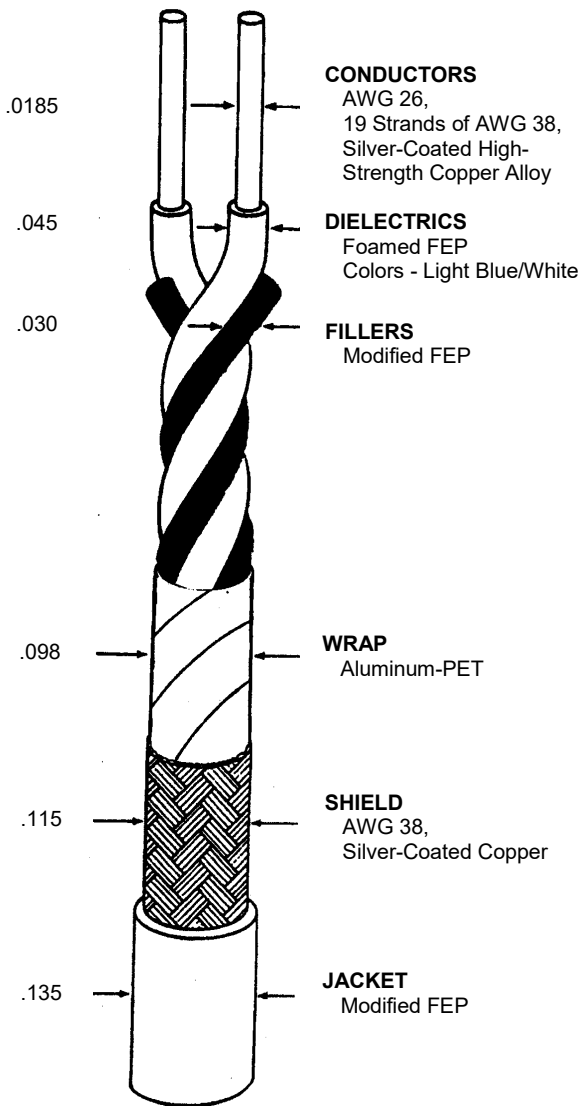
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.

DIFFERENTIAL IMPEDANCE 100 ± 5 ohms
 MUTUAL CAPACITANCE 13.0 pF/ft. (nominal) at 1 kHz
 VELOCITY OF PROPAGATION 76% (nominal)
 ADDITIONAL ELECTRICAL REQUIREMENTS - See page 2



ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling) 43.9 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/3.75 inch mandrel
 VOLTAGE WITHSTAND (Post Environmental) 1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC) (prior to cabling)
 ELONGATION 50% (minimum)
 TENSILE STRENGTH 600 lbf/in² (minimum)
 JACKET
 ELONGATION 200% (minimum)
 TENSILE STRENGTH 2000 lbf/in² (minimum)
 JACKET THICKNESS .010 inch (nominal)
 SHIELD COVERAGE 90% (minimum)
 WRAP .002 inch thick (nominal), 25% overlap (minimum), Aluminum side facing out

WEIGHT 15.3 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. 0026G8424-9X).

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. 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.



TABLE I. ELECTRICAL PARAMETERS

| FREQUENCY (MHz) | DIFFERENTIAL INSERTION LOSS (dB/15m) MAXIMUM | DIFFERENTIAL RETURN LOSS (dB/15m) MINIMUM |
|--------------------|---|--|
| 1 | 0.597 | 22 |
| 10 | 1.72 | 22 |
| 40 | 3.46 | 19 |
| 100 | 5.54 | -- |
| 130 | 6.36 | 19 |
| 200 | 7.97 | -- |
| 400 | 11.5 | 14 |
| 500 | 13.0 | -- |
| 600 | 14.4 | 14 |

Note: Actual conformance for each parameter is determined against the curve defined by values at the specified frequencies for that parameter.