

SPECIFICATION CONTROL DRAWING

2020E0421

CHEMINAX

120 OHM, AWG 20, 19 STRANDS OF AWG 32,
OPTIMIZED SHIELD, TWINAXIAL CABLE

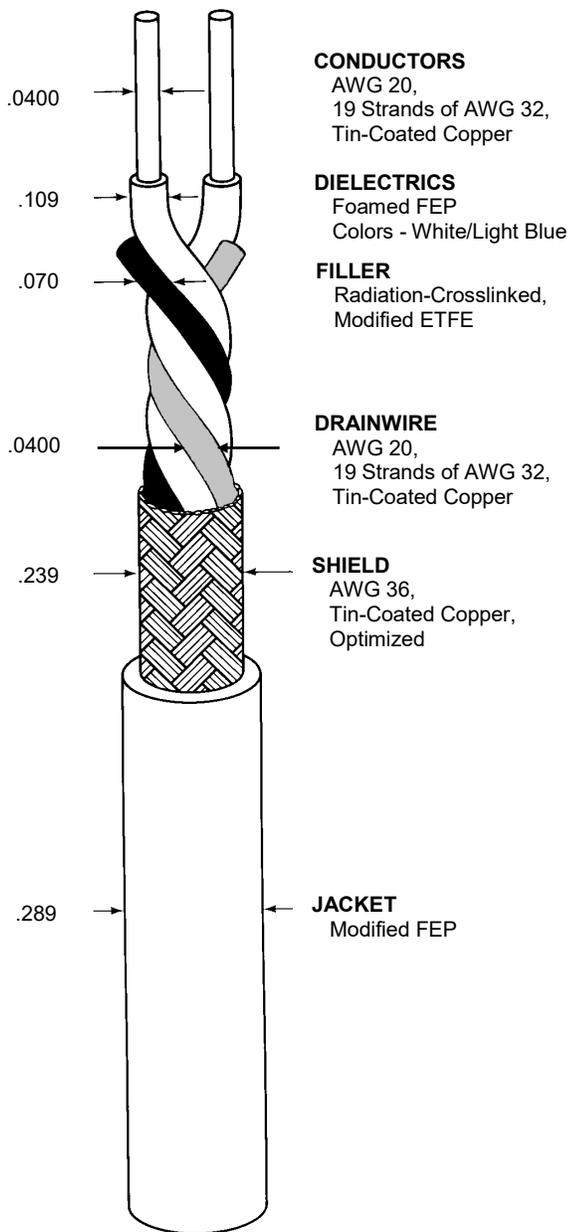
Date: 5-17-21
Revision: D

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.



CONDUCTORS
AWG 20,
19 Strands of AWG 32,
Tin-Coated Copper

DIELECTRICS
Foamed FEP
Colors - White/Light Blue

FILLER
Radiation-Crosslinked,
Modified ETFE

DRAINWIRE
AWG 20,
19 Strands of AWG 32,
Tin-Coated Copper

SHIELD
AWG 36,
Tin-Coated Copper,
Optimized

JACKET
Modified FEP

CHARACTERISTIC IMPEDANCE	120 ± 12 ohms, Method D at 1 MHz with shield grounded
MUTUAL CAPACITANCE	10.5 pF/ft. (nominal)
VELOCITY OF PROPAGATION	78% (nominal)
SURFACE TRANSFER IMPEDANCE (per SAE AS85485)	50 milliohms/meter (maximum) at 100 kHz to 20 MHz

ADDITIONAL REQUIREMENTS

ELECTRICAL

CONDUCTOR RESISTANCE (prior to cabling)	9.53 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)	1500 volts (rms)

ENVIRONMENTAL

FLAMMABILITY	Method B
HEAT SHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/8.00 inch mandrel
VOLTAGE WITHSTAND (Post Environmental)	1000 volts (rms), 1 minute

PHYSICAL

INSULATION (DIELECTRIC) (prior to cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	600 lbf/in ² (minimum)
JACKET	
ELONGATION	200% (minimum)
TENSILE STRENGTH	2000 lbf/in ² (minimum)
JACKET THICKNESS	.025 inch (nominal)

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. 2020E0421-9X). Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

WEIGHT	59.3 lbs/1000 ft. (nominal)
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ENGINEERING REFERENCE

TEMPERATURE RATING	150°C (maximum)
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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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