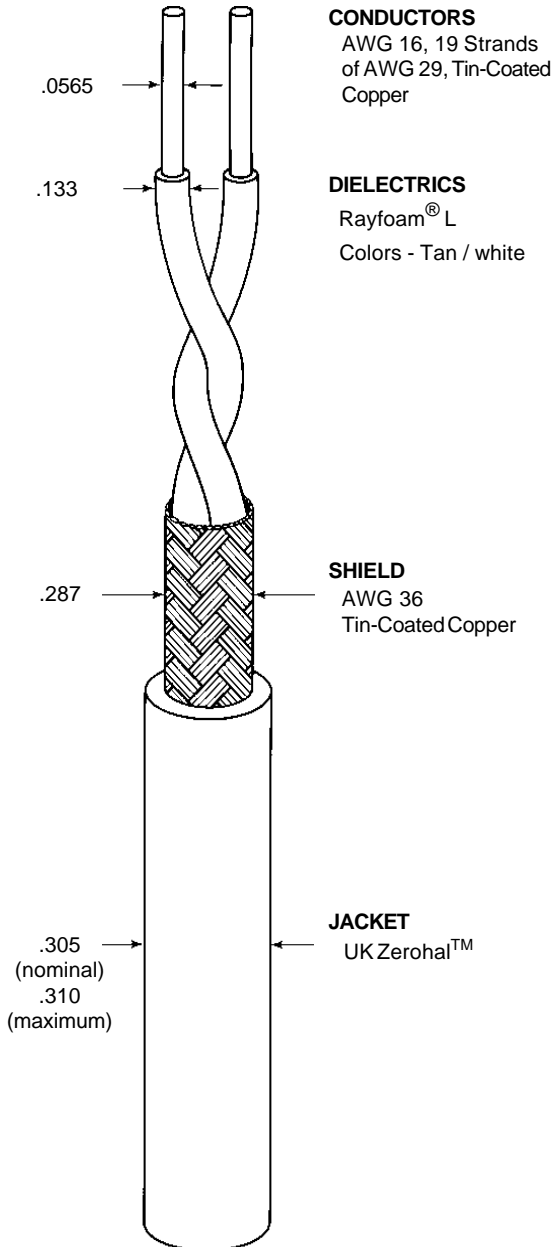


THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



CHARACTERISTIC IMPEDANCE	100 ± 8 ohms, Method C at 1 MHz
CAPACITANCE - MUTUAL	17.0 pF/ft. (maximum) at 1 kHz
VELOCITY OF PROPAGATION	77% (nominal)
PROPAGATION DELAY	1.32 ns/ft (nominal) 1.70 ns/ft (maximum)
ATTENUATION	0.61 dB/100 ft. (nominal) at 1 MHz 2.29 dB/100 ft. (nominal) at 10 MHz 8.07 dB/100 ft. (nominal) at 100 MHz
STRUCTURAL RETURN LOSS	20 dB (nominal) - 1-20 MHz 18 dB (nominal) - 40 MHz 17 dB (nominal) - 80 MHz 16 dB (nominal) - 100 MHz for 100 meters

**ADDITIONAL REQUIREMENTS**

<b>ELECTRICAL</b>	
CONDUCTOR RESISTANCE	4.69 ohms/1000 ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000ft.
JACKET FLAWS	
SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
RESISTANCE UNBALANCE	5% (maximum)
VOLTAGE WITHSTAND (DIELECTRIC)	1000 volts (rms) (minimum)
<b>ENVIRONMENTAL</b>	
FLAMMABILITY	Method B
HEAT SHOCK	225°C
JACKET SMOKE INDEX	25 (maximum)
(Qualification Test per MIL-DTL-24640/4D)	
JACKET TOXICITY INDEX	5 (maximum)
(Qualification Test per MIL-DTL-24640/4D)	
LOW TEMPERATURE- COLD BEND	-30°C/8.00 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 1 minute
<b>PHYSICAL</b>	
INSULATION (DIELECTRIC)	
(Prior to Cabling)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	1000 lbf/in <sup>2</sup> (minimum)
JACKET	
ELONGATION	150% (minimum)
TENSILE STRENGTH	1200 lbf/in <sup>2</sup> (minimum)
JACKET THICKNESS	.009 (nominal)
SHIELD COVERAGE	90% (minimum)

Outer jacket will be black (designated by a "-0" appended to the part number, e.g., 0016D0811-0) 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.

PRODUCT IDENTIFICATION: The jacket shall be marked in a contrasting color at 12 inch (nominal) intervals between marks as follows: " RAYCHEM 0016D0811-0 "

WEIGHT 43.2 lbs/1000 ft. (nominal)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.