

SPECIFICATION CONTROL DRAWING

7726D0664

CHEMINAX

77 OHM, AWG 26, 19 STRANDS OF AWG 38, OPTIMIZED SHIELD, DATA BUS CABLE, MIL-STD-1553

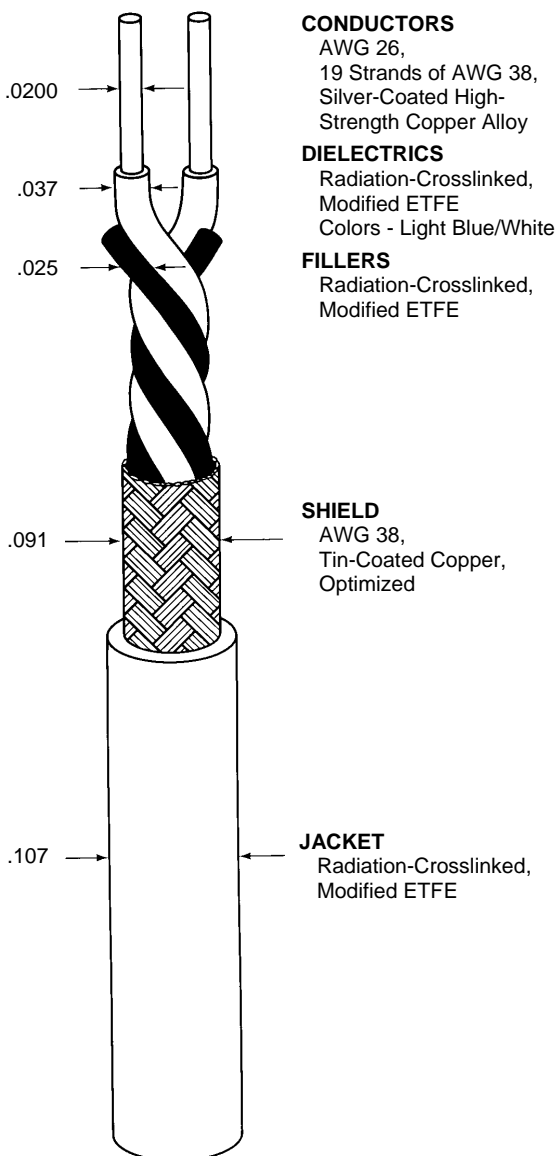
Date: 7-10-14
Revision: D

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 26,
19 Strands of AWG 38,
Silver-Coated High-
Strength Copper Alloy

DIELECTRICS
Radiation-Crosslinked,
Modified ETFE
Colors - Light Blue/White

FILLERS
Radiation-Crosslinked,
Modified ETFE

SHIELD
AWG 38,
Tin-Coated Copper,
Optimized

JACKET
Radiation-Crosslinked,
Modified ETFE

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE	30.0 pF/ft. (maximum)
ATTENUATION	1.5 dB/100 ft. (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE	50 milliohms/meter (maximum) at 0.1 MHz (Curve defined by the following points)
	50 milliohms/meter (maximum) at 1 MHz
	100 milliohms/meter (maximum) at 10 MHz

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING
(Test procedures per SAE AS22759)

CONDUCTOR RESISTANCE	42.0 ohms/1000 ft. (nominal)
CROSSLINKING PROOF TEST	300 ± 3°C for 1 hour, .500 inch mandrel, .250 lb, 2.5 kV dielectric test
INSULATION (DIELECTRIC)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (minimum)
INSULATION FLAWS	
SPARK TEST	3.0 kV (rms)
IMPULSE TEST	8.0 kV (peak)
INSULATION RESISTANCE	5000 megohms for 1000 ft. (minimum)
LOW TEMPERATURE-COLD BEND	-65 ± 3°C for 4 hours, .500 inch mandrel, .500 lb, 2.5 kV dielectric test
SHRINKAGE	200 ± 3°C for 1 hour, .125 inch (maximum) in 12 inches

FINISHED CABLE

(Test procedures per NEMA WC 27500, unless otherwise specified)

BLOCKING	200°C for 6 hours
CABLE LAY LENGTH	.75 inch (minimum), 1.25 inches (maximum)
CROSSLINKED VERIFICATION	300 ± 5°C for 6 hours, 3.00 inch mandrel
FLAMMABILITY	3 seconds (maximum); 3 inches (maximum); no flaming of facial tissue
JACKET	
ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in ² (minimum)
JACKET FLAWS	
SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
JACKET THICKNESS	.008 inch (nominal)
LOW TEMPERATURE-COLD BEND	-55 ± 5°C for 4 hours, 3.00 inch mandrel
VOLTAGE WITHSTAND (DIELECTRIC)	1500 volts (rms)

WEIGHT	10.6 lbs/1000 ft. (nominal)
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ENGINEERING REFERENCE

TEMPERATURE RATING	150°C (maximum)
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Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 7726D0664-9). 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. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

