SPECIFICATION CONTROL DRAWING 0028A0664

CHEMINAX

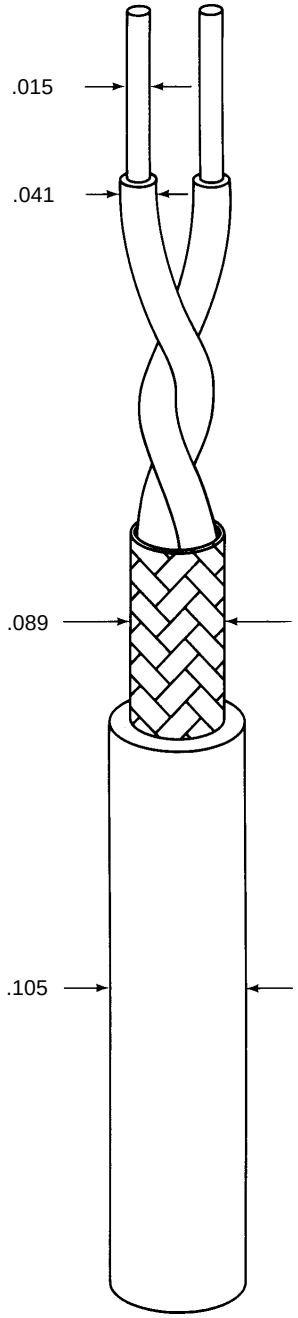
100 OHMS, AWG 28, 7 STRANDS OF AWG 36, OUTER SPACE

Date: 12-13-06
Revision: B

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

CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



CONDUCTOR
AWG 28, 7 Strands of AWG 36, Silver-Coated High Strength Copper Alloy

DIELECTRIC
Radiation-crosslinked Modified ETFE (Dual Extruded)
Color - Light Blue/White

SHIELD
Flat, .0015 in. Strand Thickness Tin-Coated Copper

JACKET
Radiation-Crosslinked Modified ETFE

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 0028A0664-9) 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.

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE	100 ± 10 ohms at 1 MHz , test per ASTM D 4566, Method 2, Option 1, (Open and Short Circuit Measurement)
CAPACITANCE - MUTUAL	16.9 pF/ft. (nominal) 20.0 pF/ft. (maximum)

ADDITIONAL REQUIREMENTS

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

CROSSLINK PROOF	300 ± 3°C for 1 hour, .500 inch mandrel, .375 lb., 2.5 kV dielectric test
LOW TEMPERATURE COLD BEND	-65 ± 2°C for 4 hours, .375 inch mandrel, .500 lb., 2.5 kV dielectric test
SHRINKAGE	200 ± 3°C for 1 hour, .125 inch (maximum) in 12 inches
INSULATION RESISTANCE	5000 megohms for 1000 ft. (minimum)
INSULATION (DIELECTRIC) (total insulation)	
TENSILE STRENGTH	5000 lbf/in² (minimum)
ELONGATION	50% (minimum)
INSULATION FLAWS	
SPARK TEST	3.0 kV (rms)
IMPULSE TEST	8.0 kV (peak)

FINISHED CABLE (Test Procedures per NEMA WC27500)

BLOCKING	200°C for 6 hours
LOW TEMPERATURE COLD BEND	-55 ± 5°C for 4 hours, 3.0 inch mandrel
CROSSLINKED VERIFICATION	300 ± 5°C for 6 hours, 3.0 inch mandrel
FLAMMABILITY (Method B per Spec. 1200)	3 seconds (maximum); 3.0 inches (maximum), no flaming of facial tissue
JACKET FLAWS	
SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
JACKET	
TENSILE STRENGTH	5000 lbf/in² (minimum)
ELONGATION	50% (minimum)
SHIELD COVERAGE	90% (minimum)
JACKET THICKNESS	.008 (nominal)
VOLTAGE WITHSTAND (DIELECTRIC)	1500 volts (rms)
WEIGHT	6.6 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE	500 megarads/3.25 inch mandrel
VACUUM STABILITY	
TOTAL MASS LOSS (TML)	1.0% (maximum)
VOLATILE CONDENSABLE MATERIAL (VCM)	0.1% (maximum)
WEIGHT LOSS: (Test per Spec 55/)	0.45% (maximum)

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.