SPECIFICATION SHEET

55A6054

29 July 1986

Revision A

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED, FIVE CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

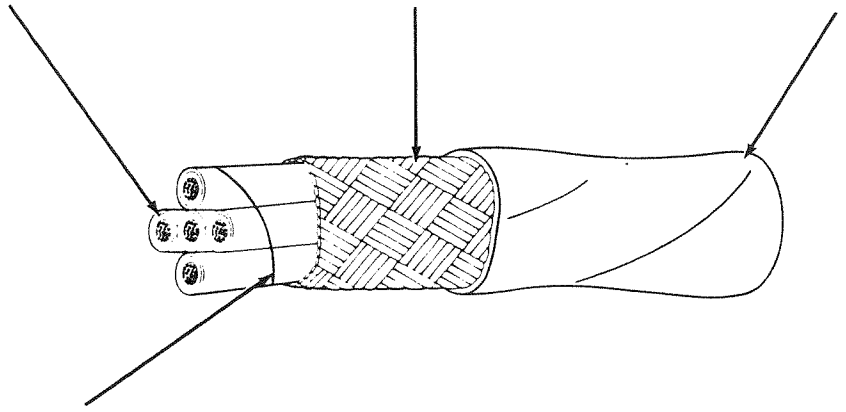
200°C

The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRE - 55A0814

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



FILAMENT BINDER AS REQUIRED

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL 1/	NOMINAL 1/	MAXIMUM	
55A6054-30-*	30	38	.006	.008	.118	.135	11.6
55A6054-28-*	28	38	.006	.008	.127	.143	13.8
55A6054-26-*	26	38	.006	.008	.140	.160	17.4
55A6054-24-*	24	38	.006	.008	.154	.175	21.4
55A6054-22-*	22	38	.006	.008	.170	.193	28.0
55A6054-20-*	20	38	.006	.008	.191	.218	37.9

1/ Nominal values are for information only. Nominal values are not requirements.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms)
ACCELERATED AGING: 300 ± 3°C for 7 hours
BLOCKING: 200 ± 3°C for 6 hours
DIELECTRIC WITHSTAND: 1500 volts, 60 Hz
FLAMMABILITY:
Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue
JACKET COLOR: White preferred
JACKET ELONGATION AND TENSILE STRENGTH:
Elongation, 50% (minimum)
Tensile Strength, 5000 lbf/in^2 (minimum)
JACKET FLAWS:
Spark Test, 1000 volts, 60 Hz (rms), 100% test
Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 230 ± 3°C for 500 hours
LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
SHIELD COVERAGE: 85% (minimum)
THERMAL SHOCK: 300 ± 3°C for 6 hours
VOLTAGE WITHSTAND TEST: (After Accelerated Aging, Immersion, Life Cycle, Low Temperature-Cold Bend and Thermal Shock) 1000 volts, 60 Hz, 1 minute

PART NUMBER:
The "*" in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a slash separating component wire colors and a dash separating the component wire colors from the jacket color.
Example:
AWG 20, white, black, red, blue and gray component wires; white jacket: 55A6054-20-9/0/2/6/8-9.

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

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