

SPECIFICATION SHEET

55A2131

8 NOVEMBER 1988

REVISION A

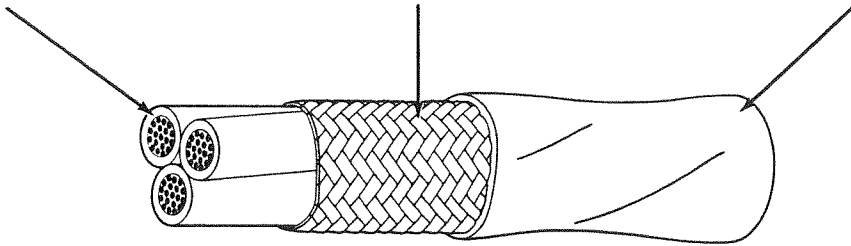
CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,
THREE CONDUCTOR, FLAT BRAID SHIELDED, JACKETED, LIGHTWEIGHT

150°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 WIRES - 55A0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS							
PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS ($\pm .0004$ inch)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A2131-30-*	30	.0015	.006	.008	.074	.080	4.8
55A2131-28-*	28	.0015	.006	.008	.080	.086	5.9
55A2131-26-*	26	.0015	.006	.008	.091	.097	7.8
55A2131-24-*	24	.0015	.006	.008	.102	.109	10.1
55A2131-22-*	22	.0015	.006	.008	.115	.122	13.4
55A2131-20-*	20	.0015	.006	.008	.132	.139	19.0
55A2131-18-*	18	.0015	.006	.008	.153	.160	26.1
55A2131-16-*	16	.0015	.006	.008	.170	.178	32.4

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CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

ACCELERATED AGING: 300 \pm 3°C for 7 hoursBLOCKING: 200 \pm 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/in² (minimum)

JACKET FLAWS:

Spark Test, 1000 volts, 60 Hz (rms), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 200 \pm 3°C for 168 hoursLOW TEMPERATURE-COLD BEND: -65 \pm 2°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 300 \pm 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 and red component wires,
white jacket: 55A2131-20-9/0/2-9.

NOTE: Nominal values are for information only.

Nominal values are not requirements.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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Authorized Distributor

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