

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,
TWO CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT

3 May 1984

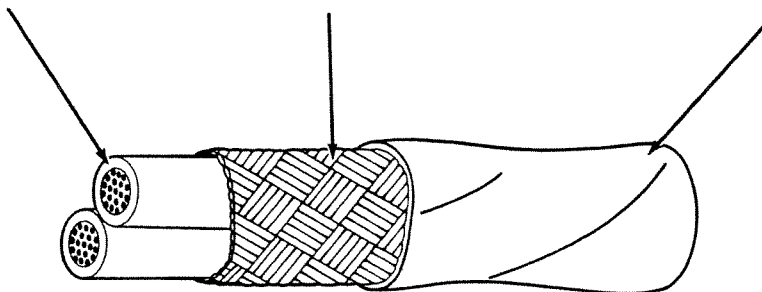
150°C

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 - 55A6355

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



CABLE CONSTRUCTION DETAILS							
PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	NOMINAL 1/	NOMINAL 1/	MAXIMUM	
55A6370-24-*	24	38	.0060	.0075	.107	.113	9.3
55A6370-22-*	22	38	.0060	.0075	.119	.125	12.0
55A6370-20-*	20	38	.0060	.0075	.135	.141	16.0
55A6370-18-*	18	38	.0060	.0075	.155	.162	21.9
55A6370-16-*	16	38	.0060	.0075	.171	.178	26.7
55A6370-14-*	14	38	.0060	.0075	.205	.213	38.3
55A6370-12-*	12	38	.0070	.0085	.243	.251	54.5

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

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°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, 100% (minimum)

Tensile Strength, 5000 psi (minimum)

JACKET FLAWS:

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

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

LIFE CYCLE: 200 ± 3°C for 168 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 and black component wire colors;
white jacket: 55A6370-20-9/0-9.

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