

SPECIFICATION SHEET

55A6050

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

29 July 1986

Revision A

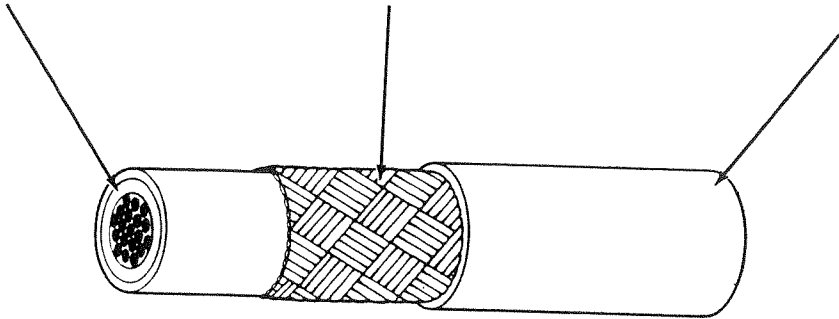
200°C

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



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL <sup>1/</sup>	NOMINAL <sup>1/</sup>	MAXIMUM	
55A6050-30-*	30	38	.006	.008	.065	.070	4.0
55A6050-28-*	28	38	.006	.008	.068	.073	4.5
55A6050-26-*	26	38	.006	.008	.073	.078	5.3
55A6050-24-*	24	38	.006	.008	.078	.083	6.3
55A6050-22-*	22	38	.006	.008	.084	.089	7.9
55A6050-20-*	20	38	.006	.008	.092	.097	10.0

<sup>1/</sup> 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<sup>2</sup> (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 dash separating the component wire color from the jacket color.

Example:  
 AWG 20, white component wire,  
 white jacket: 55A6050-20-9-9.