

SPECIFICATION SHEET

55A1862

CABLE, ELECTRIC, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED,  
SIX CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

24 October 1981

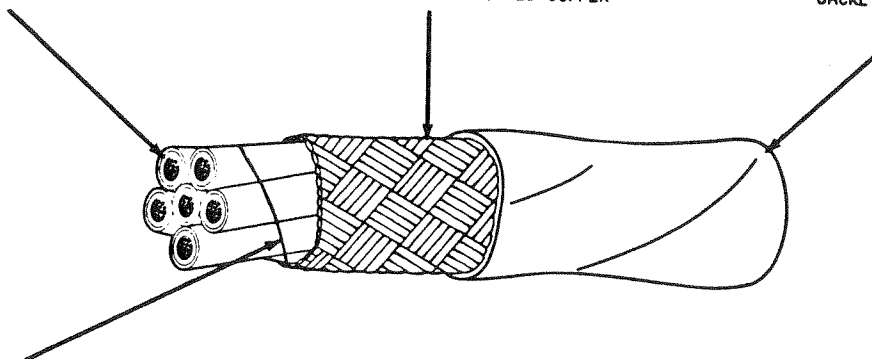
200°C

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

COMPONENT WIRES - 55A0812

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED, ETFE



FILAMENT BINDER AS  
REQUIRED

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	
			55A1862-26-*	26	38	.0060	
55A1862-24-*	24	38	.0060	.0075	.167	.175	25.0
55A1862-22-*	22	38	.0060	.0075	.185	.193	33.5
55A1862-20-*	20	38	.0060	.0075	.209	.218	44.8
55A1862-18-*	18	38	.0070	.0085	.244	.253	63.7
55A1862-16-*	16	38	.0070	.0085	.268	.279	78.2
55A1862-14-*	14	38	.0080	.0095	.321	.337	112.
55A1862-12-*	12	36	.0080	.0095	.376	.395	165.
55A1862-10-*	10	34	.0090	.0105	.456	.479	251.

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 psi (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 12, white, black, brown, red, green and blue component wires; white jacket:  
55A1862-12-9/0/1/2/5/6-9