

27 April 1981

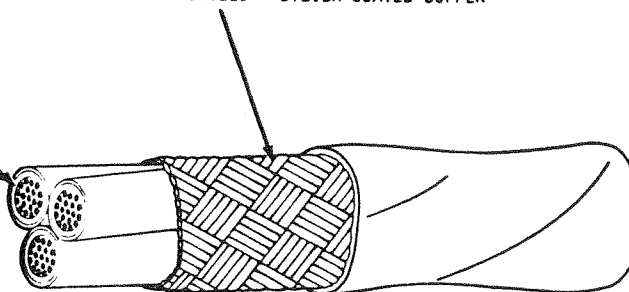
CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,
THREE CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

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 WIRES - 55A0812

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION CROSSLINKED,
EXTRUDED, MODIFIED
FLUOROPOLYMER

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	
55A1832-26-*	26	38	.0060	.0075	.119	.125	11.8
55A1832-24-*	24	38	.0060	.0075	.130	.136	14.7
55A1832-22-*	22	38	.0060	.0075	.143	.149	18.9
55A1832-20-*	20	38	.0060	.0075	.160	.167	24.9
55A1832-18-*	18	38	.0060	.0075	.184	.191	34.0
55A1832-16-*	16	38	.0060	.0075	.201	.209	41.4
55A1832-14-*	14	38	.0070	.0085	.240	.248	59.4
55A1832-12-*	12	38	.0070	.0085	.277	.287	83.7

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 ± 3°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, and red component wires; white jacket: 55A1832-20-9/0/2-9.