

SPECIFICATION SHEET

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

150°C

55A1181

21 April 1981

Revision A

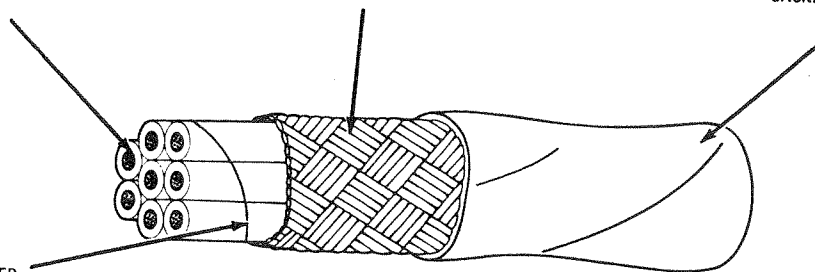
The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRES - 55A0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
EXTRUDED, MODIFIED
FLUOROPOLYMER

FILAMENT BINDER AS REQUIRED



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	
55A1181-30-*	30	38	.0060	.0075	.118	.136	13.0
55A1181-28-*	28	38	.0060	.0075	.129	.148	15.9
55A1181-26-*	26	38	.0060	.0075	.147	.168	21.1
55A1181-24-*	24	38	.0060	.0075	.165	.188	27.3
55A1181-22-*	22	38	.0060	.0075	.187	.212	36.5
55A1181-20-*	20	38	.0070	.0085	.218	.250	51.1
55A1181-18-*	18	38	.0070	.0085	.254	.290	73.1
55A1181-16-*	16	38	.0070	.0085	.282	.322	90.7
55A1181-14-*	14	36	.0080	.0095	.350	.408	138.
55A1181-12-*	12	36	.0080	.0095	.414	.472	200.

1/ Nominal values are for information only.

Nominal values are not requirements.

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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 ± 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: 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, black, brown, red, orange, yellow,
green and blue component wires; white jacket:
55A1181-20-9/0/1/2/3/4/5/6-9.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

Raychem

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[55A1181-22-ST8-9CS2275](#) [55A1181-20-G252-9](#)