

# SPECIFICATION CONTROL DRAWING

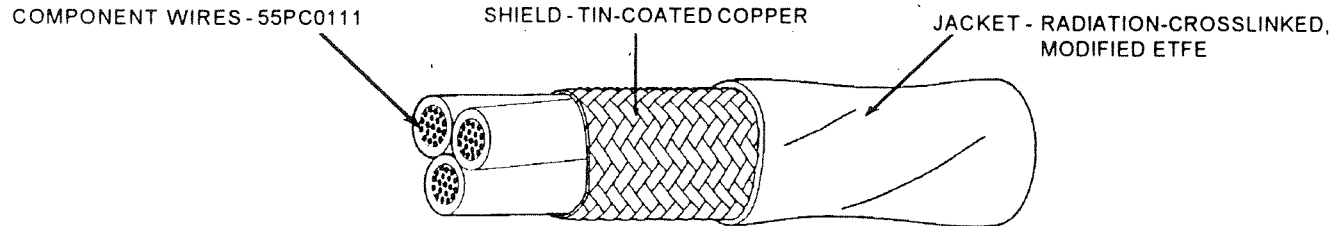
**55PC2131**

TITLE **THREE CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLT**

Date **11-13-95**

Revision **E**

This specification sheet forms a part of the latest issue of Raychem Specification 55PC.



### CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS (± .0004)	JACKET THICKNESS (in.)		DIAMETER (in.)			WEIGHT (lbs/1000 ft.)	
			LOWER SPEC LIMIT	TARGET WALL	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC2131-24-*	24	.0015	.0060	.0080	.095	.100	.105	8.89	9.45
55PC2131-22-*	22	.0015	.0060	.0080	.108	.113	.118	12.09	12.72
55PC2131-20-*	20	.0015	.0065	.0085	.126	.131	.136	17.21	17.95
55PC2131-18-*	18	.0015	.0065	.0085	.146	.152	.157	24.62	25.60
55PC2131-16-*	16	.0015	.0070	.0085	.161	.168	.175	30.67	31.93
55PC2131-14-*	14	.0015	.0070	.0090	.194	.200	.206	45.38	46.79
55PC2131-12-*	12	.0015	.0070	.0090	.235	.241	.248	67.69	69.54
55PC2131-10-*	10	.0015	.0075	.0095	.291	.299	.308	105.40	108.12

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C**  
 Maximum continuous conductor temperature  
**VOLTAGE RATING: 600 volts (rms)**  
**DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz**  
**CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour**  
**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 (rms), 60 Hz, 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100 % test

**SHIELD COVERAGE: 85% (minimum)**  
**VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):**  
 1000 volts (rms), 60 Hz, 1 minute

**PART NUMBER:**  
 The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.  
 Example: AWG 22, red, blue and yellow component wires; white jacket: 55PC2131-22-2/6/4-9

COLOR AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

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