

# SPECIFICATION CONTROL DRAWING

**55PC1816**

TITLE

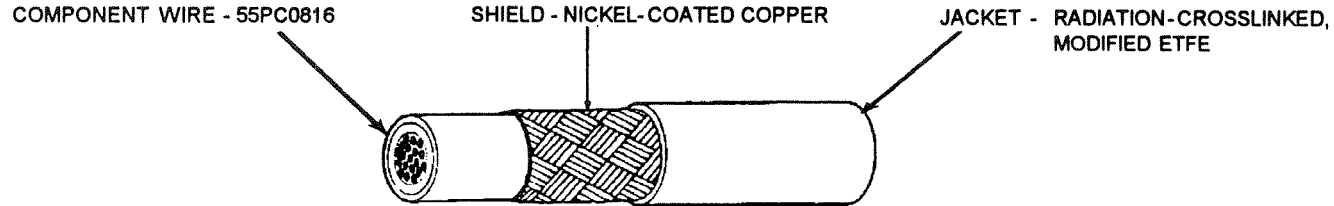
ONE CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date

4-18-95

Revision

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



### CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	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
55PC1816-24-*	24	38	.0050	.0060	.069	.073	.077	5.74	6.04
55PC1816-22-*	22	38	.0050	.0060	.075	.079	.083	7.07	7.40
55PC1816-20-*	20	38	.0050	.0060	.084	.087	.091	9.14	9.49
55PC1816-18-*	18	38	.0050	.0060	.094	.097	.101	12.06	12.51
55PC1816-16-*	16	38	.0050	.0060	.102	.105	.109	14.44	14.92

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 200°C**

Maximum continuous conductor temperature

**VOLTAGE RATING: 600 volts (rms)**

**CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour**

**DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz**

**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 a color code designator with a dash separating the component wire color from the jacket color.

Example: AWG 22, white component wire;

white jacket: 55PC1816-22-9-9

COLOR AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.