

# SPECIFICATION CONTROL DRAWING

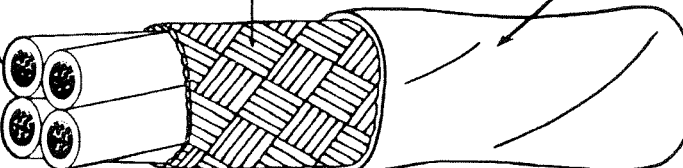
**55PC1142**TITLE  
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLTDate  
5-6-94

Revision

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

COMPONENT WIRES - 55PC0112

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE**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
55PC1142-24-*	24	38	.0060	.0080	.111	.125	.138	14.03	14.59
55PC1142-22-*	22	38	.0060	.0080	.123	.140	.156	18.57	19.19
55PC1142-20-*	20	38	.0060	.0080	.142	.161	.180	25.67	26.42
55PC1142-18-*	18	38	.0065	.0085	.163	.186	.209	36.10	37.15
55PC1142-16-*	16	38	.0065	.0085	.181	.205	.230	44.44	45.52
55PC1142-14-*	14	38	.0070	.0090	.213	.243	.273	64.85	66.35
55PC1142-12-*	12	38	.0075	.0095	.252	.296	.339	98.21	105.09

**CABLE RATINGS AND ADDITIONAL REQUIREMENTS****TEMPERATURE RATING: 200°C**

Maximum continuous conductor temperature

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

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

CROSSLINKING PROOF TEST: 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 a color code designator 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, yellow and green component wires; white jacket: 55PC1142-22-2/6/4/5-9

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

**Raychem**

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