

# SPECIFICATION CONTROL DRAWING

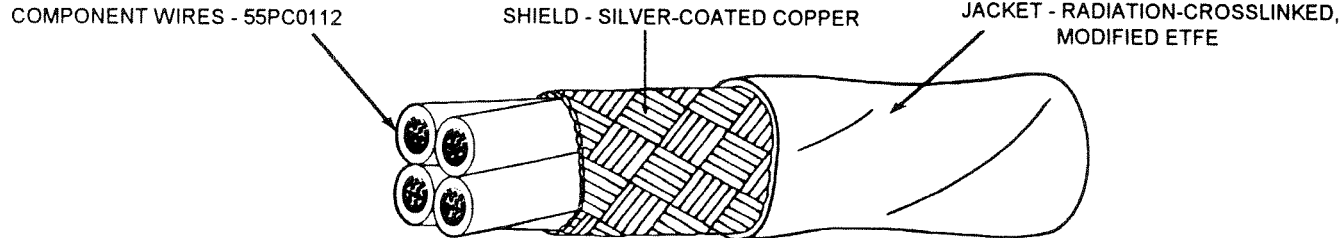
**55PC1142**

TITLE  
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date  
5-6-94

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
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.