

# SPECIFICATION CONTROL DRAWING

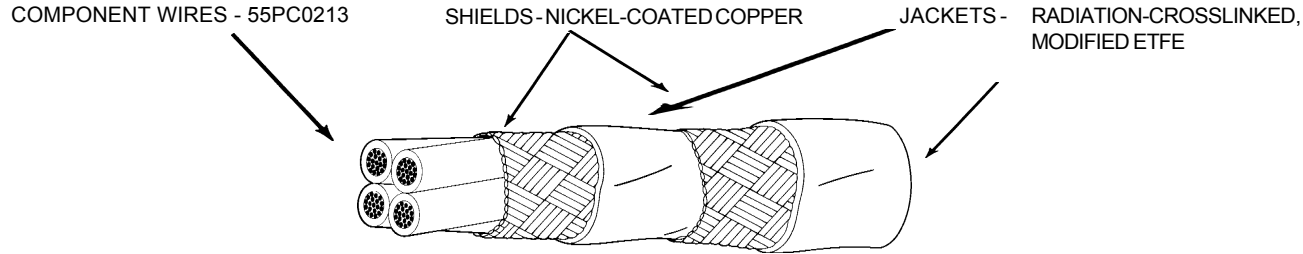
**55PC7102**

TITLE FOUR CONDUCTOR CABLE, DOUBLE SHIELDED,  
DOUBLE JACKETED, 600 VOLT

Date 01-10-02

Revision

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



### CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	INNER JACKET THICKNESS (in.)		OUTER SHIELD SIZE (AWG)	OUTER JACKET THICKNESS (in.)		DIAMETER (in.)			WEIGHT (lbs/1000 ft.)	
			LOWER SPEC LIMIT	TARGET WALL		LOWER SPEC LIMIT	TARGET WALL	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC7102-24-*	24	38	.0040	.0050	38	.0080	.0100	.154	.160	.166	24.01	25.45
55PC7102-22-*	22	38	.0040	.0050	38	.0080	.0100	.168	.174	.180	29.63	31.11
55PC7102-20-*	20	38	.0040	.0050	38	.0080	.0100	.189	.195	.201	38.32	40.24
55PC7102-18-*	18	38	.0040	.0050	38	.0080	.0100	.212	.218	.224	50.31	51.82
55PC7102-16-*	16	38	.0040	.0050	38	.0080	.0100	.230	.236	.242	59.91	61.71
55PC7102-14-*	14	38	.0040	.0050	38	.0080	.0100	.266	.272	.278	82.99	85.48
55PC7102-12-*	12	38	.0040	.0050	36	.0080	.0100	.315	.321	.327	120.65	124.27
55PC7102-10-*	10	36	.0040	.0050	36	.0080	.0100	.378	.384	.390	179.77	185.16

### 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, conductor to conductor & shield  
 500 volts (rms), 60 Hz, shield to shield  
 JACKET COLOR: White preferred  
 JACKET ELONGATION AND TENSILE STRENGTH:  
 Elongation, 50% (minimum) (each)  
 Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum) (each)  
 JACKET FLAWS:  
 Spark Test, 1000 volts (rms), 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100 % test

SHIELD COVERAGE: 85% (minimum) each shield  
 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, a dash separating the component wire colors from the inner jacket color and a dash separating the inner jacket color from the outer jacket color.  
 Example: AWG 22, red, blue, yellow, and green component wires; white inner jacket and white outer jacket:  
 55PC7102-22-2/6/4/5-9-9

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

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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