

# SPECIFICATION CONTROL DRAWING

**55PC6143**

TITLE

TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLT

Date

11-16-99

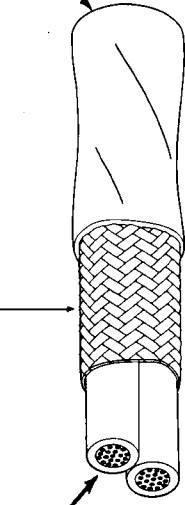
Revision

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

COMPONENT WIRES - 55PC0116

SHIELD - NICKEL-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



### 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
55PC6143-26*	26	.0015	.0060	.0075	.078	.083	4.96	5.38
55PC6143-24*	24	.0015	.0060	.0075	.088	.093	6.48	6.95
55PC6143-22*	22	.0015	.0060	.0075	.100	.105	8.68	9.20
55PC6143-20*	20	.0015	.0060	.0080	.117	.122	12.24	12.86
55PC6143-18*	18	.0015	.0060	.0080	.136	.141	17.29	18.09
55PC6143-16*	16	.0015	.0060	.0080	.150	.156	21.36	22.25

### 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 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 and blue component wires; white jacket: 55PC6143-22-2/6-9

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**

300 Constitution Drive  
Menlo Park, California 94025  
1-800-2 Raychem Fax: 1-650-361-6297