

# SPECIFICATION CONTROL DRAWING

55PC2144

TITLE

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

Date

12-7-95

Revision

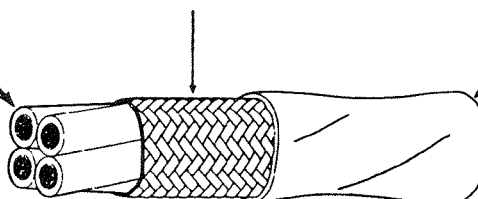
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRES - 55PC0114

SHIELD - TIN-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	UPPER SPEC LIMIT
55PC2144-24-*	24	.0015	.0065	.0085	.100	.115	.131	11.36	12.07
55PC2144-22-*	22	.0015	.0070	.0090	.115	.131	.148	15.63	16.39
55PC2144-20-*	20	.0015	.0070	.0090	.133	.152	.172	22.25	23.18
55PC2144-18-*	18	.0015	.0075	.0095	.154	.177	.201	32.18	33.41
55PC2144-16-*	16	.0015	.0075	.0095	.172	.197	.222	40.08	41.50

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

CROSSLINK VERIFICATION: 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 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, blue, yellow and green component wires; white jacket:

55PC2144-22-2/6/4/5-9

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

**Raychem**

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