

# SPECIFICATION CONTROL DRAWING

55PC6144

TITLE

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

Date

11-16-99

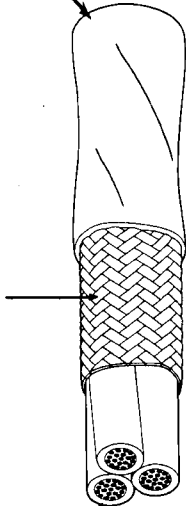
Revision

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	UPPER SPEC LIMIT
55PC6144-26*	26	.0015	.0060	.0080	.084	.089	.094	6.71	7.22
55PC6144-24*	24	.0015	.0060	.0080	.095	.100	.105	8.89	9.45
55PC6144-22*	22	.0015	.0060	.0080	.108	.113	.118	12.09	12.72
55PC6144-20*	20	.0015	.0065	.0085	.126	.131	.136	17.21	17.95
55PC6144-18*	18	.0015	.0065	.0085	.146	.152	.157	24.62	25.60
55PC6144-16*	16	.0015	.0065	.0085	.161	.168	.175	30.67	31.93

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

1000 volts (rms), 60 Hz, 1 minute

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

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 and yellow component wires;

white jacket: 55PC6144-22-216/4-9

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.

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# Mouser Electronics

Authorized Distributor

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## TE Connectivity:

[55PC6144-24-3/6/9-9CS2955](#) [55PC6144-24-3/6/9-4CS2955](#) [55PC6144-24-3/6/9-9](#) [55PC6144-24-91/92/93-9](#)  
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