

SPECIFICATION CONTROL DRAWING

55PC6119

TITLE

TWO CONDUCTOR CABLE, DOUBLE SHIELDED,
DOUBLE JACKETED, 600 VOLT

Date

12-5-97

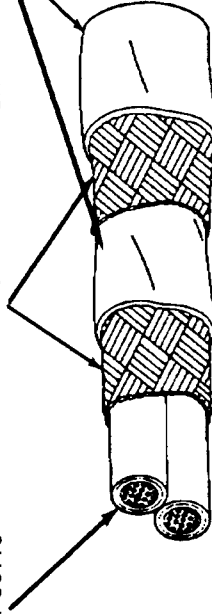
Revision

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

COMPONENT WIRES - 55PC0113

SHIELDS - NICKEL-COATED COPPER

JACKETS - RADIATION-CROSSLINKED,
MODIFIED ETFE



CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	1ST SHIELD SIZE (AWG)	1ST JACKET THICKNESS (in.)		2ND SHIELD SIZE (AWG)	2ND 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
55PC6119-24*	24	38	.0040	.0050	38	.0080	.0100	.129	.135	.141	19.57
55PC6119-22*	22	38	.0040	.0050	38	.0080	.0100	.141	.147	.153	23.28
55PC6119-20*	20	38	.0040	.0050	38	.0080	.0100	.157	.163	.169	28.71
55PC6119-18*	18	38	.0040	.0050	38	.0080	.0100	.177	.183	.189	36.66
55PC6119-16*	16	38	.0040	.0050	38	.0080	.0100	.192	.198	.204	42.64

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/in² (minimum) (each)

JACKET FLAWS:

Spark Test, 1000 volts (rms), 60 Hz, 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100 % test

SHIELD COVERAGE: 85% (minimum) 1st shield,

95% (nominal) for 2nd 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 and blue component wires;

white inner jacket and white outer jacket:

55PC6119-22-2/6-9-9

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

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[55PC6119-22-6/9-9-9CS2856](#)