

SPECIFICATION CONTROL DRAWING

55PC6142

TITLE

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

Date

12-21-99

Revision

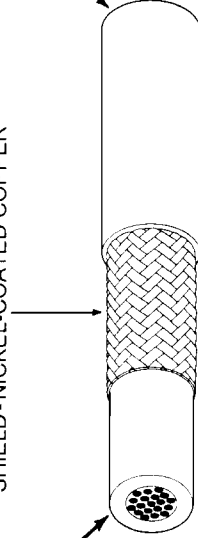
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRE - 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
55PC6142-26*	26	.0015	.0055	.0070	.047	.051	.055	2.73
55PC6142-24*	24	.0015	.0055	.0070	.052	.056	.060	3.51
55PC6142-22*	22	.0015	.0055	.0070	.058	.062	.066	4.63
55PC6142-20*	20	.0015	.0055	.0070	.066	.070	.074	6.36
55PC6142-18*	18	.0015	.0055	.0070	.075	.080	.084	8.89
55PC6142-16*	16	.0015	.0055	.0070	.083	.087	.092	10.93
55PC6142-14*	14	.0015	.0055	.0070	.097	.102	.106	15.89
55PC6142-12*	12	.0015	.0060	.0075	.117	.122	.127	23.55
55PC6142-10*	10	.0015	.0060	.0075	.142	.148	.154	36.13
								37.42

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/in² (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 a color code designator with a dash separating the component wire color from the jacket color.

Example: AWG 22, white component wire;

white jacket: 55PC6142-22-9-9

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

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[55PC6142-24-9-9CS2953](#) [55PC6142-22-9-9](#) [55PC6142-24-9-4CS2953](#) [55PC6142-22-9-9CS2953](#)