

SPECIFICATION CONTROL DRAWING

55PC1841

TITLE
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date
6-9-93

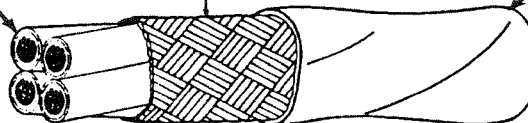
Revision
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRES - 55PC0811

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE



CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	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
55PC1841-24-*	24	38	.0060	.0080	.128	.145	.162	16.81	17.51
55PC1841-22-*	22	38	.0060	.0080	.141	.160	.180	21.61	22.40
55PC1841-20-*	20	38	.0065	.0085	.161	.183	.205	29.35	30.24
55PC1841-18-*	18	38	.0065	.0085	.182	.209	.235	40.32	41.46
55PC1841-16-*	16	38	.0070	.0090	.201	.230	.259	49.42	50.78
55PC1841-14-*	14	38	.0075	.0095	.236	.273	.310	71.85	74.92
55PC1841-12-*	12	36	.0080	.0100	.283	.327	.370	107.32	109.83

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

CROSSLINKING PROOF TEST: 300 ± 3°C for 1 hour

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

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:

55PC1841-22-2/6/4/5-9

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

Raychem

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