

SPECIFICATION CONTROL DRAWING

55PC1831

TITLE
THREE CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date
1-22-93

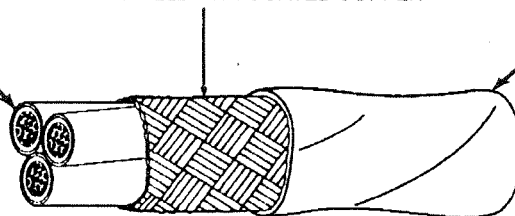
Revision
A

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
55PC1831-24-*	24	38	.0060	.0075	.122	.127	.131	13.58	14.15
55PC1831-22-*	22	38	.0060	.0075	.134	.139	.144	17.27	17.90
55PC1831-20-*	20	38	.0060	.0075	.153	.158	.162	23.07	23.76
55PC1831-18-*	18	38	.0060	.0080	.175	.180	.186	31.61	32.53
55PC1831-16-*	16	38	.0060	.0080	.192	.197	.203	38.39	39.43
55PC1831-14-*	14	38	.0060	.0080	.227	.233	.239	55.25	56.61
55PC1831-12-*	12	38	.0065	.0085	.267	.274	.281	79.33	81.13

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 a color code designator 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: 55PC1831-22-2/6/4-9

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

Raychem

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