

SPECIFICATION CONTROL DRAWING

55PC1112

TITLE

ONE CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date

08-31-00

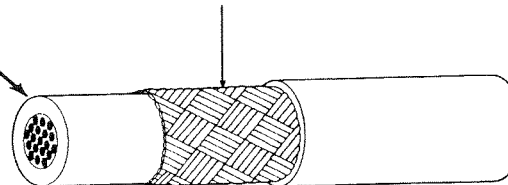
Revision

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

COMPONENT WIRE - 55PC0112

SHIELD - SILVER-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
55PC1112-24-*	24	38	.0050	.0060	.061	.065	.069	4.86	5.12
55PC1112-22-*	22	38	.0050	.0060	.068	.071	.074	6.13	6.41
55PC1112-20-*	20	38	.0050	.0060	.075	.079	.083	8.07	8.37
55PC1112-18-*	18	38	.0050	.0060	.085	.088	.092	10.82	11.22
55PC1112-16-*	16	38	.0050	.0060	.092	.096	.100	13.03	13.46
55PC1112-14-*	14	38	.0050	.0060	.107	.110	.114	18.34	18.85
55PC1112-12-*	12	38	.0050	.0065	.126	.130	.134	26.47	27.15
55PC1112-10-*	10	38	.0050	.0065	.151	.157	.162	39.82	41.05
55PC1112-8-*	8	38	.0060	.0075	.213	.220	.227	71.34	73.35

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

CROSSLINKING PROOF TEST: 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), 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:

55PC1112-22-9-9

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

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