

SPECIFICATION CONTROL DRAWING

55A6645

TITLE

TWO CONDUCTOR CABLE, DOUBLE SHIELDED,
DOUBLE JACKETED, NORMAL WEIGHT

Date

3-31-97

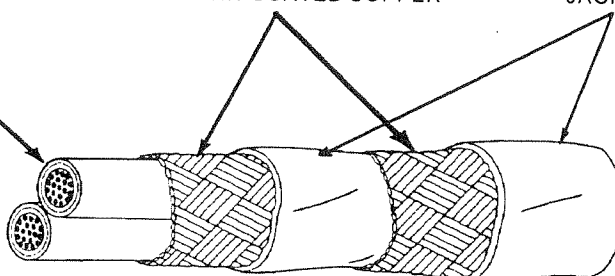
Revision

B

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

COMPONENT WIRES -
1 of 55A0711-AWG-2
1 of 55A0711-AWG-6

SHIELDS - TIN-COATED COPPER

JACKETS - RADIATION-CROSSLINKED,
MODIFIED ETFE
COLOR - WHITE

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	INNER JACKET THICKNESS (inches)		OUTER SHIELD SIZE (AWG)	OUTER JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		NOMINAL WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A6645-20	20	38	.006	.008	38	.006	.008	.206	.216	33.7
55A6645-18	18	38	.006	.008	38	.007	.009	.228	.239	42.0

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

ACCELERATED AGING: 300 ± 3°C for 7 hours

DIELECTRIC WITHSTAND:

1500 volts (rms), 60 Hz, conductor to conductor
and shield, 500 volts (rms), 60 Hz, shield to shield

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

MUTUAL CAPACITANCE: (Per Specification 1200)

AWG 20, 54 pF/ft. (maximum)

AWG 18, 60 pF/ft. (maximum)

SHIELD COVERAGE: 85% (minimum) (each)

VOLTAGE WITHSTAND TEST (Post Environmental):

1000 volts (rms), 60 Hz, 1 minute

CABLE IDENTIFICATION: Outer jacket shall be

marked in green ink at 6 inch (nominal) intervals

between marks as follows:

" 55A6645-AWG-06090 "

NOTE: Nominal values are for information only.

Nominal values are not requirements.

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

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

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