

# SPECIFICATION CONTROL DRAWING

**55A6645**

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

Date 3-31-97

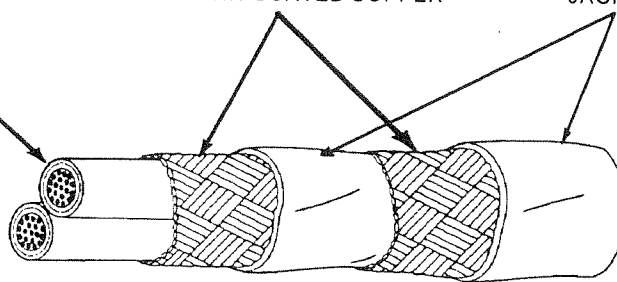
Revision B

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/in<sup>2</sup> (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