

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SPECIFICATION CONTROL DRAWING

**55A6259**

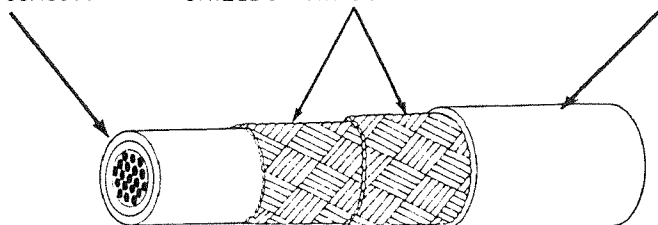
**TITLE** ONE CONDUCTOR CABLE, DOUBLE SHIELDED,  
JACKETED, NORMAL WEIGHT

**Date** 8-9-97

**Revision** A

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-C-27500 as applicable.

COMPONENT WIRE - 55A0811      SHIELDS - TIN-COATED COPPER      JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6259-22-*	22	38	38	.005	.010	.100	.105	12.0
55A6259-20-*	20	38	38	.005	.010	.108	.113	14.5
55A6259-18-*	18	38	38	.005	.010	.120	.126	18.5
55A6259-16-*	16	38	38	.005	.010	.127	.133	21.2

### CABLE RATING AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING:** 150°C  
 Maximum continuous conductor temperature  
**VOLTAGE RATING:** 600 volts (rms)  
**AGING STABILITY:** 230 ± 5°C for 96 hours  
**BLOCKING:** 200 ± 3°C for 6 hours  
**CROSSLINKED VERIFICATION:** 300 ± 5°C for 6 hours  
**DIELECTRIC WITHSTAND:** 1500 volts (rms), 60 Hz conductor to shield  
**FLAMMABILITY:**  
 Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue  
**JACKET COLOR:** White preferred  
**JACKET ELONGATION AND TENSILE STRENGTH:**  
 Elongation, 50% (minimum)  
 Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

**JACKET FLAWS:**  
 Spark Test, 1500 volts (rms), 60 Hz, 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test  
**LOW TEMPERATURE-COLD BEND:** -55 ± 5°C for 4 hours  
**SHIELD COVERAGE:** 85% (minimum) (each)  
**THERMAL SHOCK:** 230 ± 5°C for 4 hours  
**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 dash separating the component wire color from the jacket color.  
 Example: AWG 22, white component wire; white jacket:  
 55A6259-22-9-9

**NOTE:** Nominal values are for information only.  
 Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSD1V23, less identification.

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

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

**Raychem**

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