

SPECIFICATION SHEET

55A2824

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,  
TWO CONDUCTOR, FLAT BRAID SHIELDED, JACKETED, NORMAL WEIGHT

30 March 1985

Revision A

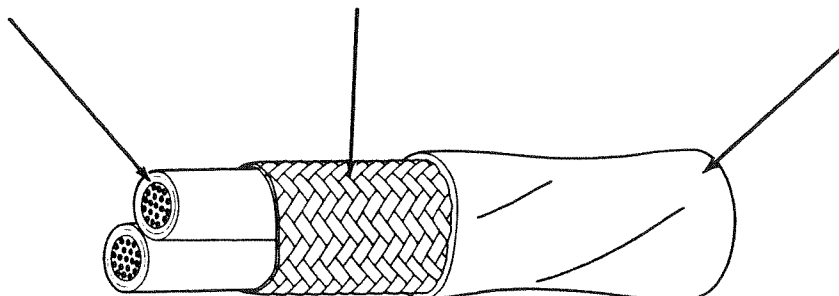
150°C

The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRES - 55A0814

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



| PART NUMBER  | CONDUCTOR SIZE (AWG) | SHIELD STRAND THICKNESS ( $\pm .0004$ inch) | JACKET THICKNESS (in.) |                       | OUTSIDE DIAMETER (in.) |         | MAXIMUM WEIGHT (lb/1000 ft.) |
|--------------|----------------------|---|------------------------|-----------------------|------------------------|---------|------------------------------|
|              |                      |   | MINIMUM                | NOMINAL <sup>1/</sup> | NOMINAL <sup>1/</sup>  | MAXIMUM |                              |
|              |                      |   |                        |                       |                        |         |                              |
| 55A2824-28-* | 28                   | .0015                                       | .006                   | .008                  | .093                   | .098    | 6.0                          |
| 55A2824-26-* | 26                   | .0015                                       | .006                   | .008                  | .103                   | .108    | 7.5                          |
| 55A2824-24-* | 24                   | .0015                                       | .006                   | .008                  | .113                   | .119    | 9.2                          |
| 55A2824-22-* | 22                   | .0015                                       | .006                   | .008                  | .125                   | .131    | 11.8                         |
| 55A2824-20-* | 20                   | .0015                                       | .006                   | .008                  | .141                   | .148    | 15.8                         |

<sup>1/</sup> Nominal values are for information only. Nominal values are not requirements.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms)  
 ACCELERATED AGING: 300  $\pm$  3°C for 7 hours  
 BLOCKING: 200  $\pm$  3°C for 6 hours  
 DIELECTRIC WITHSTAND: 1500 volts, 60 Hz  
 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 psi (minimum)  
 JACKET FLAWS:  
 Spark Test, 1000 volts, 60 Hz (rms), 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 200  $\pm$  3°C for 168 hours  
 LOW TEMPERATURE-COLD BEND: -65  $\pm$  2°C for 4 hours  
 SHIELD COVERAGE: 85% (minimum)  
 THERMAL SHOCK: 300  $\pm$  3°C for 6 hours  
 VOLTAGE WITHSTAND TEST: (After Accelerated Aging,  
 Immersion, Life Cycle, Low Temperature-Cold Bend and  
 Thermal Shock) 1000 volts, 60 Hz, 1 minute

PART NUMBER:  
 The "\*" in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a slash separating component wire colors and a dash separating the component wire colors from the jacket color.  
 Example:  
 AWG 20, white and black component wires;  
 white jacket: 55A2824-20-9/0-9.