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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

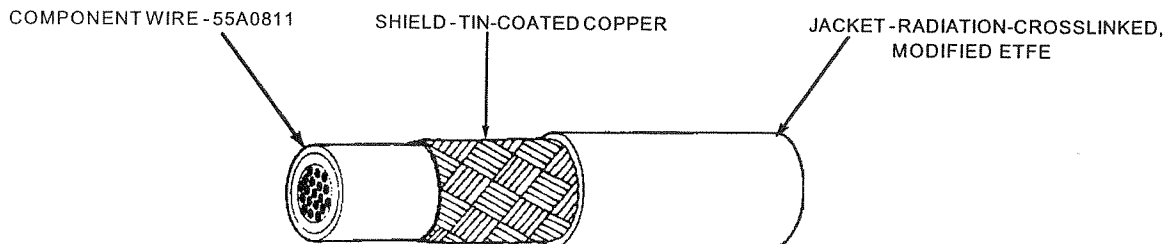
55A1811

TITLE ONE CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED ETFE INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 09-20-01

Revision F

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



### CABLE CONSTRUCTION DETAILS

| PARTNUMBER    | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (inches) |         | OUTSIDE DIAMETER (inches) |         | MAXIMUM WEIGHT (lbs/1000 ft.) |
|---------------|----------------------|-------------------|---------------------------|---------|---------------------------|---------|-------------------------------|
|               |                      |                   | MINIMUM                   | NOMINAL | NOMINAL                   | MAXIMUM |                               |
| 55A1811-30-*  | 30                   | 38                | .006                      | .008    | .065                      | .070    | 4.0                           |
| 55A1811-28-*  | 28                   | 38                | .006                      | .008    | .068                      | .073    | 4.5                           |
| 55A1811-26-*  | 26                   | 38                | .006                      | .008    | .073                      | .078    | 5.3                           |
| 55A1811-24-*  | 24                   | 38                | .006                      | .008    | .078                      | .083    | 6.3                           |
| 55A1811-22-*  | 22                   | 38                | .006                      | .008    | .084                      | .089    | 7.9                           |
| 55A1811-20-*  | 20                   | 38                | .006                      | .008    | .092                      | .097    | 10.0                          |
| 55A1811-18-*  | 18                   | 38                | .006                      | .008    | .103                      | .109    | 13.3                          |
| 55A1811-16-*  | 16                   | 38                | .006                      | .008    | .111                      | .117    | 16.0                          |
| 55A1811-14-*  | 14                   | 38                | .006                      | .008    | .128                      | .134    | 22.2                          |
| 55A1811-12-*  | 12                   | 38                | .006                      | .008    | .145                      | .151    | 30.3                          |
| 55A1811-10-*  | 10                   | 38                | .006                      | .008    | .168                      | .176    | 45.0                          |
| 55A1811- 8-*  | 8                    | 38                | .007                      | .009    | .229                      | .250    | 76.6                          |
| 55A1811- 6-*  | 6                    | 38                | .007                      | .009    | .275                      | .286    | 115.                          |
| 55A1811- 4-*  | 4                    | 36                | .008                      | .010    | .350                      | .368    | 181.                          |
| 55A1811- 2-*  | 2                    | 34                | .009                      | .011    | .456                      | .479    | 297.                          |
| 55A1811- 1-*  | 1                    | 34                | .009                      | .011    | .518                      | .544    | 380.                          |
| 55A1811- 0-*  | 0                    | 34                | .010                      | .012    | .560                      | .588    | 444.                          |
| 55A1811- 00-* | 00                   | 34                | .010                      | .012    | .620                      | .651    | 568.                          |
| 55A1811-000-* | 000                  | 34                | .012                      | .014    | .664                      | .697    | 672.                          |

### 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  
 BLOCKING: 200 ± 3°C for 6 hours  
 DIELECTRIC WITHSTAND: 1500 volts (rms), 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 lbf/in<sup>2</sup> (minimum)  
 JACKET FLAWS:  
 Spark Test, 1000 volts (rms), 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 200 ± 3°C for 168 hours  
 LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours  
 SHIELD COVERAGE: 85% (minimum)  
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):  
 1000 volts (rms), 60 Hz, 1 minute

PARTNUMBER:  
 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 20, white component wire; white jacket:  
 55A1811-20-9-9

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.

**Raychem**