

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,  
ONE CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT

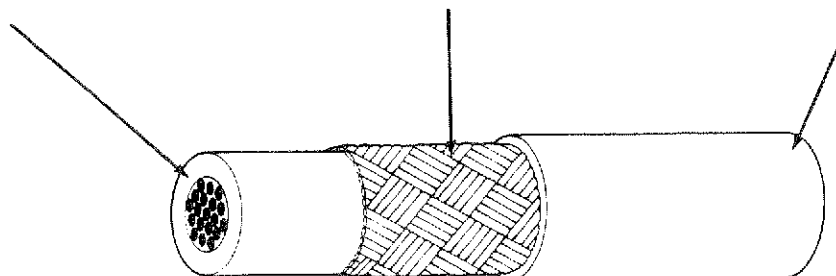
25APR11  
Revision A1

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 WIRE - 55A0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

| CABLE CONSTRUCTION DETAILS |                      |                   |                        |         |                        |         |                             |
|----------------------------|----------------------|-------------------|------------------------|---------|------------------------|---------|-----------------------------|
| PART NUMBER                | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) |         | OUTSIDE DIAMETER (in.) |         | MAXIMUM WEIGHT (lb/1000 ft) |
|                            |                      |                   | MINIMUM                | NOMINAL | NOMINAL                | MAXIMUM |                             |
| 55A1111-30-*               | 30                   | 38                | .006                   | .008    | .057                   | .062    | 3.4                         |
| 55A1111-28-*               | 28                   | 38                | .006                   | .008    | .060                   | .065    | 3.9                         |
| 55A1111-26-*               | 26                   | 38                | .006                   | .008    | .065                   | .070    | 4.6                         |
| 55A1111-24-*               | 24                   | 38                | .006                   | .008    | .070                   | .075    | 5.5                         |
| 55A1111-22-*               | 22                   | 38                | .006                   | .008    | .076                   | .081    | 6.9                         |
| 55A1111-20-*               | 20                   | 38                | .006                   | .008    | .084                   | .089    | 9.0                         |
| 55A1111-18-*               | 18                   | 38                | .006                   | .008    | .094                   | .099    | 12.0                        |
| 55A1111-16-*               | 16                   | 38                | .006                   | .008    | .102                   | .108    | 14.6                        |
| 55A1111-14-*               | 14                   | 38                | .006                   | .008    | .119                   | .125    | 20.4                        |
| 55A1111-12-*               | 12                   | 38                | .006                   | .008    | .137                   | .143    | 28.5                        |
| 55A1111-10-*               | 10                   | 38                | .006                   | .008    | .161                   | .169    | 42.1                        |
| 55A1111-8-*                | 8                    | 38                | .007                   | .009    | .223                   | .234    | 74.2                        |

(A)

## 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, 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 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 300 ± 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 dash separating the component wire color from  
the jacket color.

Example:

AWG 20, white component wire, white jacket:

55A1111-20-9-9.

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

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.



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Authorized Distributor

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