

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

28 June 1985

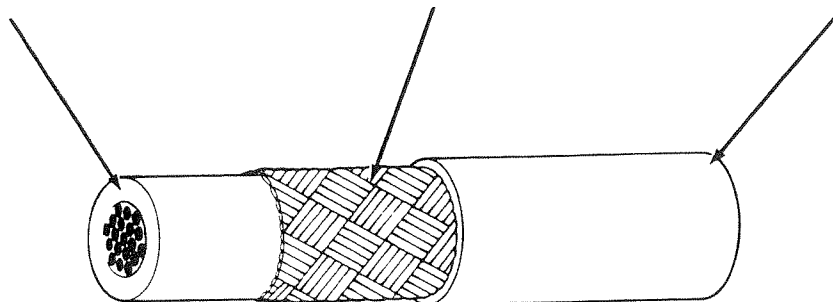
Revision A

200°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 - 55A0113

SHIELD - NICKEL-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

| CABLE CONSTRUCTION DETAILS |                            |                         |                           |            |                           |         |                                     |
|----------------------------|----------------------------|-------------------------|---------------------------|------------|---------------------------|---------|-------------------------------------|
| PART NUMBER                | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>(in.) |            | OUTSIDE DIAMETER<br>(in.) |         | MAXIMUM<br>WEIGHT<br>(lbs/1000 ft.) |
|                            |                            |                         | MINIMUM                   | NOMINAL 1/ | NOMINAL 1/                | MAXIMUM |                                     |
| 55A1113-30-*               | 30                         | 38                      | .006                      | .008       | .057                      | .062    | 3.4                                 |
| 55A1113-28-*               | 28                         | 38                      | .006                      | .008       | .060                      | .065    | 3.9                                 |
| 55A1113-26-*               | 26                         | 38                      | .006                      | .008       | .065                      | .070    | 4.7                                 |
| 55A1113-24-*               | 24                         | 38                      | .006                      | .008       | .070                      | .075    | 5.8                                 |
| 55A1113-22-*               | 22                         | 38                      | .006                      | .008       | .076                      | .081    | 7.2                                 |
| 55A1113-20-*               | 20                         | 38                      | .006                      | .008       | .084                      | .089    | 9.4                                 |
| 55A1113-18-*               | 18                         | 38                      | .006                      | .008       | .094                      | .099    | 12.6                                |
| 55A1113-16-*               | 16                         | 38                      | .006                      | .008       | .102                      | .108    | 15.2                                |
| 55A1113-14-*               | 14                         | 38                      | .006                      | .008       | .119                      | .125    | 21.4                                |
| 55A1113-12-*               | 12                         | 38                      | .006                      | .008       | .137                      | .143    | 29.8                                |

1/ Nominal values are for information only. Nominal values are not requirements.

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

## TEMPERATURE RATING: 200°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: 230 ± 3°C for 500 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-883C  
with a dash separating the component wire color from  
the jacket color.

## Example:

AWG 20, white component wire, white jacket:  
55A1113-20-9-9.

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

**Raychem**

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