

SPECIFICATION CONTROL DRAWING

44AM183X

TITLE THREE CONDUCTOR CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, SHIELDED, JACKETED, MEDIUM WEIGHT, AIRFRAME

Date 05-24-01

Revision B

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-W-81044 as applicable

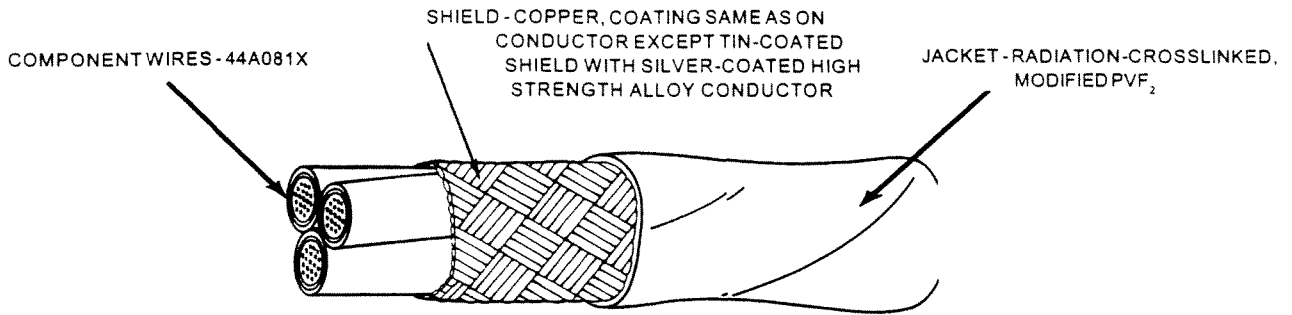


TABLE I. CABLE CONSTRUCTION DETAILS

| PARTNUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000 ft) |
|---------------|----------------------|-------------------|------------------------|---------|------------------------|---------|-----------------------------|
| | | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 44AM183X-24-* | 24 | 38 | .005 | .010 | .150 | .157 | 17.3 |
| 44AM183X-22-* | 22 | 38 | .006 | .012 | .169 | .177 | 22.7 |
| 44AM183X-20-* | 20 | 38 | .006 | .012 | .186 | .194 | 28.7 |
| 44AM183X-18-* | 18 | 38 | .006 | .012 | .208 | .217 | 37.8 |
| 44AM183X-16-* | 16 | 38 | .007 | .014 | .227 | .236 | 45.6 |
| 44AM183X-14-* | 14 | 38 | .007 | .014 | .268 | .279 | 64.8 |
| 44AM183X-12-* | 12 | 36 | .007 | .014 | .313 | .329 | 94.4 |
| 44AM183X-10-* | 10 | 36 | .007 | .014 | .376 | .395 | 138. |

TABLE II. CABLE PERFORMANCE DETAILS

| PARTNUMBER | BEND TESTING | | | |
|---------------|--|-----------|--|-----------|
| | MANDREL DIAMETER (inch) (± 3%) | | WEIGHT (lb) (± 3%) | |
| | ACCELERATED AGING IMMERSION AND LIFE CYCLE | COLD BEND | ACCELERATED AGING IMMERSION AND LIFE CYCLE | COLD BEND |
| 44AM183X-24-* | 6.00 | 6.00 | .750 | 13.5 |
| 44AM183X-22-* | 6.00 | 6.00 | 2.25 | 13.5 |
| 44AM183X-20-* | 6.00 | 6.00 | 3.00 | 18.0 |
| 44AM183X-18-* | 6.00 | 6.00 | 3.00 | 18.0 |
| 44AM183X-16-* | 6.00 | 6.00 | 3.00 | 22.5 |
| 44AM183X-14-* | 10.0 | 10.0 | 3.00 | 22.5 |
| 44AM183X-12-* | 10.0 | 10.0 | 3.00 | 22.5 |
| 44AM183X-10-* | 18.0 | 18.0 | 3.00 | 22.5 |

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

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

Raychem

CABLE RATINGS AND ADDITIONAL REQUIREMENTS**TEMPERATURE RATING: 150°C**

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)**BLOCKING: 150 ± 3°C for 6 hours****CROSSLINK VERIFICATION: 200 ± 5°C for 6 hours****DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz, 15 sec. (min), 30 sec. (max)****FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum);**

no flaming of facial tissue

JACKET COLOR: White preferred**JACKET CONCENTRICITY: 70% (minimum)****JACKET ELONGATION AND TENSILE STRENGTH:**

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in² (minimum)**JACKET FLAWS:**

Spark Test, 1.5 kV (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)****VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): 1000 volts (rms), 60 Hz, 1 minute****PART NUMBER:**

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designator as follows:

- 1 tin-coated copper
- 2 silver-coated copper
- 3 nickel-coated copper
- 4 silver-coated high strength copper alloy
- 6 nickel-coated high strength copper alloy

The "*" in the part numbers on page 1 shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 20, tin-coated copper wire; white, brown and red component wires; white jacket; 44AM1831-20-9/1/2-9

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)