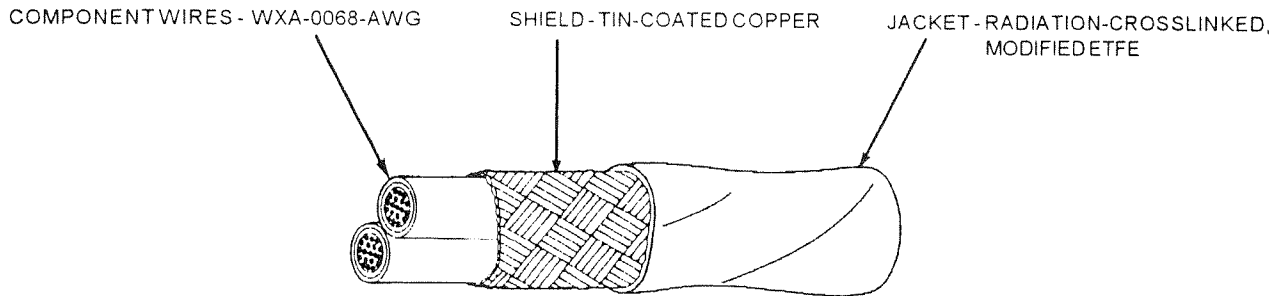


SPECIFICATION CONTROL DRAWING

CXA-0066

| | | | | | |
|-------|---|------|----------|----------|---|
| TITLE | MULTIPLE COMPONENT CABLES, SHIELDED, JACKETED, 600 VOLT | Date | 10-31-96 | Revision | E |
|-------|---|------|----------|----------|---|

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-C-27500 as applicable



EXAMPLE: CXA-0066-24-2 (TWO CONDUCTOR CABLE)

| ONE CONDUCTOR 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 | |
| CXA-0066-24-1-* | 24 | 38 | .006 | .008 | .072 | .077 | 5.8 |
| CXA-0066-22-1-* | 22 | 38 | .006 | .008 | .078 | .083 | 7.3 |
| CXA-0066-20-1-* | 20 | 38 | .006 | .008 | .087 | .092 | 9.4 |
| CXA-0066-18-1-* | 18 | 38 | .006 | .008 | .098 | .103 | 12.6 |
| CXA-0066-16-1-* | 16 | 38 | .006 | .008 | .105 | .110 | 15.0 |
| CXA-0066-14-1-* | 14 | 38 | .006 | .008 | .122 | .128 | 20.9 |
| CXA-0066-12-1-* | 12 | 38 | .006 | .008 | .141 | .148 | 29.3 |
| CXA-0066-10-1-* | 10 | 38 | .006 | .008 | .167 | .175 | 43.3 |

| TWO CONDUCTOR CABLE CONSTRUCTION DETAILS | | | | | | | |
|--|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-2-* | 24 | 38 | .006 | .008 | .111 | .117 | 10.1 |
| CXA-0066-22-2-* | 22 | 38 | .006 | .008 | .123 | .129 | 12.9 |
| CXA-0066-20-2-* | 20 | 38 | .006 | .008 | .141 | .148 | 17.1 |
| CXA-0066-18-2-* | 18 | 38 | .006 | .008 | .163 | .171 | 23.4 |
| CXA-0066-16-2-* | 16 | 38 | .006 | .008 | .177 | .186 | 28.2 |
| CXA-0066-14-2-* | 14 | 38 | .006 | .008 | .211 | .222 | 39.7 |
| CXA-0066-12-2-* | 12 | 38 | .007 | .009 | .251 | .264 | 57.2 |
| CXA-0066-10-2-* | 10 | 38 | .007 | .009 | .303 | .318 | 85.3 |

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

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THREE CONDUCTOR CABLE CONSTRUCTION DETAILS

| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
|-----------------|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-3-* | 24 | 38 | .006 | .008 | .117 | .123 | 12.9 |
| CXA-0066-22-3-* | 22 | 38 | .006 | .008 | .130 | .137 | 16.8 |
| CXA-0066-20-3-* | 20 | 38 | .006 | .008 | .150 | .157 | 22.7 |
| CXA-0066-18-3-* | 18 | 38 | .006 | .008 | .173 | .182 | 31.7 |
| CXA-0066-16-3-* | 16 | 38 | .006 | .008 | .189 | .198 | 38.5 |
| CXA-0066-14-3-* | 14 | 38 | .007 | .009 | .227 | .239 | 55.8 |
| CXA-0066-12-3-* | 12 | 38 | .007 | .009 | .268 | .282 | 80.1 |
| CXA-0066-10-3-* | 10 | 36 | .008 | .010 | .330 | .347 | 126. |

FOUR CONDUCTOR CABLE CONSTRUCTION DETAILS

| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
|-----------------|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-4-* | 24 | 38 | .006 | .008 | .127 | .147 | 15.8 |
| CXA-0066-22-4-* | 22 | 38 | .006 | .008 | .142 | .165 | 20.9 |
| CXA-0066-20-4-* | 20 | 38 | .006 | .008 | .164 | .191 | 28.5 |
| CXA-0066-18-4-* | 18 | 38 | .006 | .008 | .190 | .222 | 40.2 |
| CXA-0066-16-4-* | 16 | 38 | .006 | .008 | .207 | .243 | 49.1 |
| CXA-0066-14-4-* | 14 | 38 | .007 | .009 | .250 | .294 | 71.5 |
| CXA-0066-12-4-* | 12 | 38 | .007 | .009 | .296 | .349 | 103. |
| CXA-0066-10-4-* | 10 | 36 | .008 | .010 | .365 | .430 | 163. |

FIVE CONDUCTOR CABLE CONSTRUCTION DETAILS

| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
|-----------------|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-5-* | 24 | 38 | .006 | .008 | .138 | .158 | 18.7 |
| CXA-0066-22-5-* | 22 | 38 | .006 | .008 | .155 | .176 | 24.9 |
| CXA-0066-20-5-* | 20 | 38 | .006 | .008 | .179 | .205 | 34.3 |
| CXA-0066-18-5-* | 18 | 38 | .006 | .008 | .209 | .239 | 48.7 |
| CXA-0066-16-5-* | 16 | 38 | .007 | .009 | .229 | .264 | 60.3 |
| CXA-0066-14-5-* | 14 | 38 | .007 | .009 | .275 | .317 | 87.2 |
| CXA-0066-12-5-* | 12 | 36 | .008 | .010 | .333 | .383 | 132. |
| CXA-0066-10-5-* | 10 | 36 | .008 | .010 | .403 | .465 | 200. |

SIX CONDUCTOR CABLE CONSTRUCTION DETAILS

| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
|-----------------|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-6-* | 24 | 38 | .006 | .008 | .150 | .158 | 21.6 |
| CXA-0066-22-6-* | 22 | 38 | .006 | .008 | .168 | .176 | 29.0 |
| CXA-0066-20-6-* | 20 | 38 | .006 | .008 | .195 | .205 | 40.1 |
| CXA-0066-18-6-* | 18 | 38 | .007 | .009 | .230 | .242 | 57.8 |
| CXA-0066-16-6-* | 16 | 38 | .007 | .009 | .251 | .264 | 71.0 |
| CXA-0066-14-6-* | 14 | 36 | .007 | .009 | .306 | .321 | 107. |
| CXA-0066-12-6-* | 12 | 36 | .008 | .010 | .365 | .383 | 156. |
| CXA-0066-10-6-* | 10 | 36 | .009 | .011 | .445 | .467 | 238. |

| SEVEN CONDUCTOR CABLE CONSTRUCTION DETAILS | | | | | | | |
|--|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-7-* | 24 | 38 | .006 | .008 | .150 | .158 | 23.8 |
| CXA-0066-22-7-* | 22 | 38 | .006 | .008 | .168 | .176 | 32.3 |
| CXA-0066-20-7-* | 20 | 38 | .006 | .008 | .195 | .205 | 45.0 |
| CXA-0066-18-7-* | 18 | 38 | .007 | .009 | .230 | .242 | 65.2 |
| CXA-0066-16-7-* | 16 | 38 | .007 | .009 | .251 | .264 | 80.3 |
| CXA-0066-14-7-* | 14 | 36 | .007 | .009 | .306 | .321 | 121. |
| CXA-0066-12-7-* | 12 | 36 | .008 | .010 | .365 | .383 | 177. |
| CXA-0066-10-7-* | 10 | 34 | .009 | .011 | .450 | .473 | 279. |

| EIGHT CONDUCTOR CABLE CONSTRUCTION DETAILS | | | | | | | |
|--|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-8-* | 24 | 38 | .006 | .008 | .160 | .182 | 26.5 |
| CXA-0066-22-8-* | 22 | 38 | .006 | .008 | .179 | .205 | 36.1 |
| CXA-0066-20-8-* | 20 | 38 | .006 | .008 | .209 | .239 | 50.5 |
| CXA-0066-18-8-* | 18 | 38 | .007 | .009 | .246 | .282 | 73.4 |
| CXA-0066-16-8-* | 16 | 38 | .007 | .009 | .269 | .309 | 90.6 |
| CXA-0066-14-8-* | 14 | 36 | .008 | .010 | .330 | .379 | 137. |
| CXA-0066-12-8-* | 12 | 36 | .008 | .010 | .392 | .451 | 200. |
| CXA-0066-10-8-* | 10 | 34 | .009 | .011 | .484 | .557 | 316. |

| NINE CONDUCTOR CABLE CONSTRUCTION DETAILS | | | | | | | |
|---|----------------------|-------------------|------------------------|---------|------------------------|---------|----------------------------|
| PART NUMBER | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lb/1000ft) |
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| CXA-0066-24-9-* | 24 | 38 | .006 | .008 | .171 | .198 | 29.5 |
| CXA-0066-22-9-* | 22 | 38 | .006 | .008 | .193 | .224 | 40.2 |
| CXA-0066-20-9-* | 20 | 38 | .007 | .009 | .227 | .264 | 56.9 |
| CXA-0066-18-9-* | 18 | 38 | .007 | .009 | .266 | .310 | 81.9 |
| CXA-0066-16-9-* | 16 | 38 | .007 | .009 | .295 | .343 | 105. |
| CXA-0066-14-9-* | 14 | 36 | .008 | .010 | .357 | .417 | 154. |
| CXA-0066-12-9-* | 12 | 36 | .009 | .011 | .426 | .499 | 225. |
| CXA-0066-10-9-* | 10 | 34 | .010 | .012 | .526 | .615 | 355. |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
 Maximum continuous conductor temperature
 VOLTAGE RATING: 600 volts (rms)
 CONCENTRICITY: 70%
 CROSSLINKED VERIFICATION: 300 ± 3°C for 6 hours
 BLOCKING: 150 ± 3°C for 6 hours
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz, conductor to shield
 FLAMMABILITY: Procedure 1, 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue
 JACKET ELONGATION AND TENSILE STRENGTH:
 Elongation, 50% (minimum)
 Tensile Strength, 5000 lbf/in² (minimum)
 JACKET FLAWS:
 Spark Test, 1.5 kV (rms), 60 Hz, 100% test
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 200 ± 5°C for 168 hours
 LOW TEMPERATURE-COLD BEND: -65 ± 5°C for 4 hours
 SHIELD COVERAGE: 85% (minimum)
 VOLTAGE WITHSTAND (POST ENVIRONMENTAL):
 1000 volts (rms), 60 Hz, 1 minute

COMPONENT COLORS:
 Component colors shall be based on the number of conductors per the following color sequence:
 9/6/3/5/2/0/4/7/8
 The "*" in the part numbers shall be replaced by a jacket color code designator.
 Example: AWG 20, 3 conductor cable, white jacket, will have component colors 9,6,3. The part number will be CXA-0066-20-3-9.

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