# SPECIFICATION CONTROL DRAWING

| SCD | 44/9785 |
|---|---|

| Title | Date | Revision |
|---|---|---|
| TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, LIGHTWEIGHT, OUTER SPACE, 600 VOLT | 9-13-22 | B |

This specification sheet forms a part of the latest issue of Raychem Specification 44.

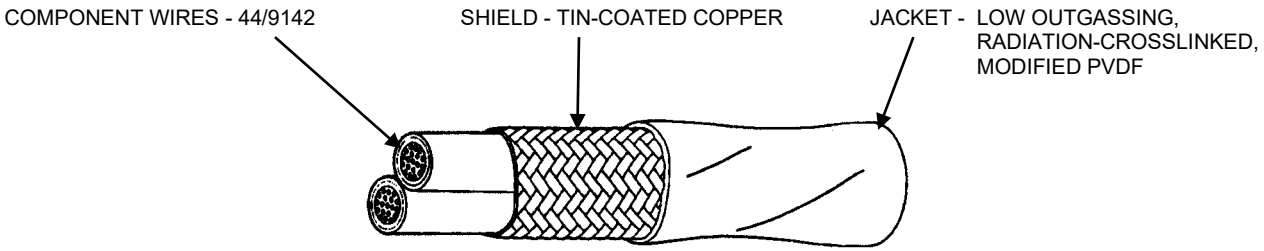


TABLE I. CABLE CONSTRUCTION DETIALS

| PART NUMBER 1/ | CONDUCTOR SIZE (AWG) | SHIELD STRAND THICKNESS (± .0004 inch) | JACKET THICKNESS (inch) | | OUTSIDE DIAMETER (inch) | | MAXIMUM WEIGHT (lbs/1000 ft.) |
|---|---|---|---|---|---|---|---|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| 44/9785-26-* | 26 | .0015 | .006 | .008 | .089 | .094 | 6.4 |
| 44/9785-24-* | 24 | .0015 | .006 | .008 | .135 | .140 | 8.5 |
| 44/9785-22-* | 22 | .0015 | .006 | .008 | .143 | .164 | 9.7 |

TABLE II. CABLE PERFORMANCE DETAILS

| PART NUMBER 1/ | BEND TESTING | | | | |
|---|---|---|---|---|---|
| | MANDREL DIAMETER (inch) (± 3%) | | | WEIGHT (lb) (± 3%) | |
| | RADIATION RESISTANCE | IMMERSION, LIFE CYCLE, AND ACCELERATED AGING | COLD BEND | IMMERSION, LIFE CYCLE, AND ACCELERATED AGING | COLD BEND |
| 44/9785-26-* | 2.50 | 3.00 | 3.00 | .125 | 1.50 |
| 44/9785-24-* | 2.75 | 3.00 | 3.00 | .185 | 1.50 |
| 44/9785-22-* | 3.25 | 3.00 | 3.00 | .185 | 1.50 |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 135°C
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms) at sea level
ACCELERATED AGING: 225 ± 3°C for 6 hours
BLOCKING: 150 ± 2°C for 6 hours
DIELECTRIC WITHSTAND: 2500 volts (rms), 60 Hz, 1 minute
FLAMMABILITY: 30 seconds (maximum); 3 inches (maximum); no flaming of facial tissue
JACKET COLOR: White preferred
JACKET ELONGATION AND TENSILE STRENGTH:
Elongation, 200% (minimum)
Tensile Strength, 4000 lbf/in$^2$ (minimum)
JACKET FLAWS:
Spark Test, 1.5 kV (rms)
Impulse Dielectric Test, 6.0 kV (peak)
LIFE CYCLE: 200 ± 3°C for 120 hours
LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
RADIATION RESISTANCE: 500 megarads
SHIELD COVERAGE: 90% (minimum)
VACUUM STABILITY:
Total Mass Loss (TML), 1.00% (maximum)
Volatile Condensable Material (VCM), 0.10% (maximum)
VOLTAGE WITHSTAND (Post Environmental):
1000 volts (rms), 60 Hz, 1 minute

1/ PART NUMBER:
The "*" in the part numbers above 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 26, black and brown component wires; white jacket: 44/9785-26-0/1-9

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



1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.





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