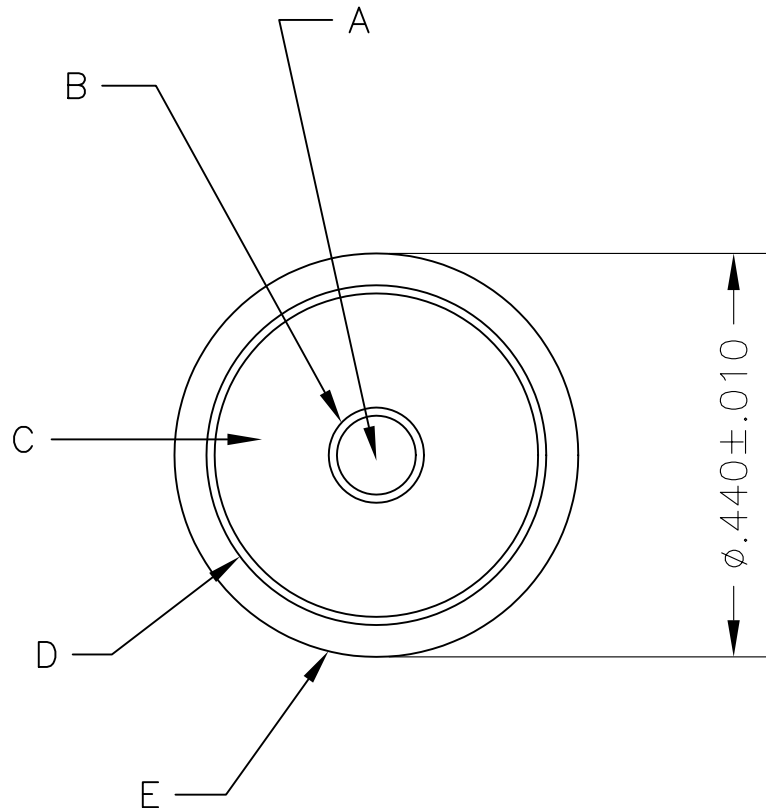




## LEGEND

- A. #12 AWG (19/25) T.C.
- B. SEMICON POLYETHYLENE TO  $\phi.130$
- C. INSULATING POLYETHYLENE TO  $\phi.360 \pm .010$
- D. BRAIDED SHIELD, #34 AWG T.C. , 90% COV  
9 ENDS, 24 CARRIER
- E. JACKET: PVC: BLACK

NOTES:

1. TEST VOLTAGE: 110KVDC— 10 MINUTES
2. JACKET SPARK TEST: 5KV

|           |                 |      |      |                                                                                                                                                                                                                |  |                                                                                   |  |                      |  |                                                            |  |                           |  |                   |  |                 |  |
|-----------|-----------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|----------------------|--|------------------------------------------------------------|--|---------------------------|--|-------------------|--|-----------------|--|
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| REV       | ECO NUMBER      | APPD | DATE | UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                     |  | DRAWN<br>GPLAMBERT                                                                |  | DATE<br>15NOV00      |  | DIELECTRIC SCIENCES,INC<br>CHELMSFORD, MASSACHUSETTS 01824 |  |                           |  |                   |  |                 |  |
| —         | RELEASE DRAWING |      |      | DIMENSIONS ARE IN INCHES<br>TOLERANCE ON<br><br>DECIMALS                      ANGLES<br>.XX    ±.01                      ±<br>.XXX   ±.005                                                                     |  | CHECKED<br>DJ LEARY                                                               |  | DATE<br>15NOV00      |  |                                                            |  |                           |  |                   |  |                 |  |
|           |                 |      |      |                                                                                                                                                                                                                |  | CONCENTRICITY .005 TIR<br>REMOVE BURRS & SHARP EDGES<br>ALL MACHINE SURFACES 125✓ |  | APPROVED<br>DJ LEARY |  | DATE<br>15NOV00                                            |  | CABLE: HV; 100KVDC, 12AWG |  |                   |  |                 |  |
|           |                 |      |      | MATERIAL                                                                                                                                                                                                       |  |                                                                                   |  |                      |  |                                                            |  |                           |  |                   |  |                 |  |
|           |                 |      |      |                                                                                                                                                                                                                |  | DO NOT SCALE THIS DRAWING                                                         |  | FINISH               |  |                                                            |  | SIZE<br>A                 |  | FSCM NO.<br>50509 |  | DWG NO.<br>2125 |  |
|           |                 |      |      | SCALE                                                                                                                                                                                                          |  |                                                                                   |  |                      |  |                                                            |  | SHEET                     |  | 1 OF 1            |  |                 |  |

## CABLE, H.V. SHIELDED

P/N: 2125

|                  |     |      |
|------------------|-----|------|
| Working Voltage: | 100 | kVDC |
|                  |     | kVDC |
| Test Voltage:    | 110 | kVDC |
|                  |     | kVDC |

Dielectric: LDHMW polyethylene

Jacket Material: PVC

Characteristic Impedance: 48 ohm

Capacitance: 37 pF/Ft.

Minimum Bend Radius: 6 inches

Minimum Ambient Temp: -60 °F -50 °C

Maximum Conductor Temp: 140 °F 60°C

Maximum Relative Humidity: %

Weight: .10 lb/ft.

### Conductors

Main H.V. #12 AWG (19 x #25 AWG TC) ( 3.31 mm<sup>2</sup>)

Shield #34 AWG TC – 90% coverage equivalent to #14 AWG

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Terminations (DSI P/N)

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Notes

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Applications