

**CASVOLT™ 250 UL/cUL**  
**Style 1911**  
**-65°C to +250°C, 5kV-50kV**



**Construction**

**Type:** electrical wire  
**Core:** bare, tin-plated, nickel-plated or silver-plated copper  
**Insulation:** PFA

**Production**

**Range width:** AWG 24 to 10  
**Options:** Please consult us for any special requirements

**Application**

**General use:** ignition circuit and creation of an electric arc for gas or oil burners for boilers and professional appliances  
**Household appliances:** ignition circuit and creation of an electric arc for piezo-electric components in household electrical appliances

**General characteristics**

**Weather conditions:** excellent resistance to UV  
**Chemical behaviors:** excellent resistance to aggressive chemical environments  
**Humidity:** excellent resistance to humidity  
**Mechanical behaviors:** excellent mechanical strength

**Thermal characteristics**

**Operating temperature:** -65°C to +250°C

**Electrical characteristics**

**Operating Voltage:** 5KV-50KV  
**Test voltage:** according to the operating voltage

**Approvals – Standards**

**“Horizontal flame”:** as per UL approval  
**UL approval:** as per standard UL 758

**5kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      |      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) |      | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in)                 | (mm) |                |      |            |      |
| 5kV     | 6410101        | 24         | 7                   | 0.008                | 0.20 | 0.020          | 0.5  | 0.063      | 1.60 |
|         | 6410102        | 22         | 19                  | 0.006                | 0.15 | 0.020          | 0.5  | 0.069      | 1.75 |
|         | 6410103        | 20         | 19                  | 0.007                | 0.18 | 0.020          | 0.5  | 0.075      | 1.90 |
|         | 6410104        | 18         | 19                  | 0.009                | 0.23 | 0.020          | 0.5  | 0.085      | 2.15 |
|         | 6410105        | 17         | 19                  | 0.010                | 0.26 | 0.020          | 0.5  | 0.091      | 2.30 |
|         | 6410106        | 16         | 19                  | 0.012                | 0.30 | 0.020          | 0.5  | 0.098      | 2.50 |
|         | 6410107        | 14         | 19                  | 0.015                | 0.37 | 0.020          | 0.5  | 0.112      | 2.85 |
|         | 6410108        | 12         | 19                  | 0.019                | 0.48 | 0.020          | 0.5  | 0.134      | 3.40 |
|         | 6410109        | 10         | 37                  | 0.017                | 0.43 | 0.020          | 0.5  | 0.159      | 4.05 |

**CASVOLT™ 250 UL/cUL**

**Style 1911**  
-65°C to +250°C, 5kV-50kV



**10kV**

| Voltage | CASMO<br>Part No. | Wire gauge | Conductor structure |                      |      | Wall thickness |      | Final O.D. |      |
|---------|-------------------|------------|---------------------|----------------------|------|----------------|------|------------|------|
|         |                   | (AWG)      | # Strands           | Diam. Of Strands(mm) |      | (in)           | (mm) | (in)       | (mm) |
|         |                   |            |                     | (in)                 | (mm) |                |      |            |      |
| 10kV    | 6410110           | 24         | 7                   | 0.008                | 0.20 | 0.024          | 0.6  | 0.071      | 1.80 |
|         | 6410111           | 22         | 19                  | 0.006                | 0.15 | 0.024          | 0.6  | 0.077      | 1.95 |
|         | 6410112           | 20         | 19                  | 0.007                | 0.18 | 0.024          | 0.6  | 0.083      | 2.10 |
|         | 6410113           | 18         | 19                  | 0.009                | 0.23 | 0.024          | 0.6  | 0.093      | 2.35 |
|         | 6410114           | 17         | 19                  | 0.010                | 0.26 | 0.024          | 0.6  | 0.098      | 2.50 |
|         | 6410115           | 16         | 19                  | 0.012                | 0.30 | 0.024          | 0.6  | 0.102      | 2.60 |
|         | 6410116           | 14         | 19                  | 0.015                | 0.37 | 0.024          | 0.6  | 0.120      | 3.05 |
|         | 6410117           | 12         | 19                  | 0.019                | 0.48 | 0.024          | 0.6  | 0.142      | 3.60 |
|         | 6410118           | 10         | 37                  | 0.017                | 0.43 | 0.024          | 0.6  | 0.167      | 4.25 |

**15kV**

| Voltage | CASMO<br>Part No. | Wire gauge | Conductor structure |                      |      | Wall thickness |      | Final O.D. |      |
|---------|-------------------|------------|---------------------|----------------------|------|----------------|------|------------|------|
|         |                   | (AWG)      | # Strands           | Diam. Of Strands(mm) |      | (in)           | (mm) | (in)       | (mm) |
|         |                   |            |                     | (in)                 | (mm) |                |      |            |      |
| 15kV    | 6410119           | 24         | 7                   | 0.008                | 0.20 | 0.026          | 0.65 | 0.075      | 1.90 |
|         | 6410120           | 22         | 19                  | 0.006                | 0.15 | 0.026          | 0.65 | 0.081      | 2.05 |
|         | 6410121           | 20         | 19                  | 0.007                | 0.18 | 0.026          | 0.65 | 0.087      | 2.20 |
|         | 6410122           | 18         | 19                  | 0.009                | 0.23 | 0.026          | 0.65 | 0.096      | 2.45 |
|         | 6410123           | 17         | 19                  | 0.010                | 0.26 | 0.026          | 0.65 | 0.102      | 2.60 |
|         | 6410124           | 16         | 19                  | 0.012                | 0.30 | 0.026          | 0.65 | 0.110      | 2.80 |
|         | 6410125           | 14         | 19                  | 0.015                | 0.37 | 0.026          | 0.65 | 0.124      | 3.15 |
|         | 6410126           | 12         | 19                  | 0.019                | 0.48 | 0.026          | 0.65 | 0.146      | 3.70 |
|         | 6410127           | 10         | 37                  | 0.017                | 0.43 | 0.026          | 0.65 | 0.169      | 4.30 |

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**CASVOLT™ 250 UL/cUL**

**Style 1911**

**-65°C to +250°C, 5kV-50kV**



**20kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in) (mm)            |                |      |            |      |
| 20kV    | 6410128        | 24         | 7                   | 0.008 0.20           | 0.028          | 0.7  | 0.079      | 2.00 |
|         | 6410129        | 22         | 19                  | 0.006 0.15           | 0.028          | 0.7  | 0.085      | 2.15 |
|         | 6410130        | 20         | 19                  | 0.007 0.18           | 0.028          | 0.7  | 0.091      | 2.30 |
|         | 6410131        | 18         | 19                  | 0.009 0.23           | 0.028          | 0.7  | 0.100      | 2.55 |
|         | 6410132        | 17         | 19                  | 0.010 0.26           | 0.028          | 0.7  | 0.106      | 2.70 |
|         | 6410133        | 16         | 19                  | 0.012 0.30           | 0.028          | 0.7  | 0.114      | 2.90 |
|         | 6410134        | 14         | 19                  | 0.015 0.37           | 0.028          | 0.7  | 0.128      | 3.25 |
|         | 6410135        | 12         | 19                  | 0.019 0.48           | 0.028          | 0.7  | 0.150      | 3.80 |
|         | 6410136        | 10         | 37                  | 0.017 0.43           | 0.028          | 0.7  | 0.173      | 4.40 |

**25kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in) (mm)            |                |      |            |      |
| 25kV    | 6410137        | 24         | 7                   | 0.008 0.20           | 0.030          | 0.75 | 0.083      | 2.10 |
|         | 6410138        | 22         | 19                  | 0.006 0.15           | 0.030          | 0.75 | 0.089      | 2.25 |
|         | 6410139        | 20         | 19                  | 0.007 0.18           | 0.030          | 0.75 | 0.094      | 2.40 |
|         | 6410140        | 18         | 19                  | 0.009 0.23           | 0.030          | 0.75 | 0.104      | 2.65 |
|         | 6410141        | 17         | 19                  | 0.010 0.26           | 0.030          | 0.75 | 0.110      | 2.80 |
|         | 6410142        | 16         | 19                  | 0.012 0.30           | 0.030          | 0.75 | 0.118      | 3.00 |
|         | 6410143        | 14         | 19                  | 0.015 0.37           | 0.030          | 0.75 | 0.132      | 3.35 |
|         | 6410144        | 12         | 19                  | 0.019 0.48           | 0.030          | 0.75 | 0.154      | 3.90 |
|         | 6410145        | 10         | 37                  | 0.017 0.43           | 0.030          | 0.75 | 0.177      | 4.50 |

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**CASVOLT™ 250 UL/cUL**

**Style 1911**  
**-65°C to +250°C, 5kV-50kV**



**30kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in) (mm)            |                |      |            |      |
| 30kV    | 6410146        | 24         | 7                   | 0.008 0.20           | 0.033          | 0.85 | 0.091      | 2.30 |
|         | 6410147        | 22         | 19                  | 0.006 0.15           | 0.033          | 0.85 | 0.096      | 2.45 |
|         | 6410148        | 20         | 19                  | 0.007 0.18           | 0.033          | 0.85 | 0.102      | 2.60 |
|         | 6410149        | 18         | 19                  | 0.009 0.23           | 0.033          | 0.85 | 0.112      | 2.85 |
|         | 6410150        | 17         | 19                  | 0.010 0.26           | 0.033          | 0.85 | 0.118      | 3.00 |
|         | 6410151        | 16         | 19                  | 0.012 0.30           | 0.033          | 0.85 | 0.126      | 3.20 |
|         | 6410152        | 14         | 19                  | 0.015 0.37           | 0.033          | 0.85 | 0.140      | 3.55 |
|         | 6410153        | 12         | 19                  | 0.019 0.48           | 0.033          | 0.85 | 0.161      | 4.10 |
|         | 6410154        | 10         | 37                  | 0.017 0.43           | 0.033          | 0.85 | 0.187      | 4.75 |

**35kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in) (mm)            |                |      |            |      |
| 35kV    | 6410155        | 24         | 7                   | 0.008 0.20           | 0.035          | 0.9  | 0.094      | 2.40 |
|         | 6410156        | 22         | 19                  | 0.006 0.15           | 0.035          | 0.9  | 0.100      | 2.55 |
|         | 6410157        | 20         | 19                  | 0.007 0.18           | 0.035          | 0.9  | 0.106      | 2.70 |
|         | 6410158        | 18         | 19                  | 0.009 0.23           | 0.035          | 0.9  | 0.116      | 2.95 |
|         | 6410159        | 17         | 19                  | 0.010 0.26           | 0.035          | 0.9  | 0.122      | 3.10 |
|         | 6410160        | 16         | 19                  | 0.012 0.30           | 0.035          | 0.9  | 0.130      | 3.30 |
|         | 6410161        | 14         | 19                  | 0.015 0.37           | 0.035          | 0.9  | 0.144      | 3.65 |
|         | 6410162        | 12         | 19                  | 0.019 0.48           | 0.035          | 0.9  | 0.165      | 4.20 |
|         | 6410163        | 10         | 37                  | 0.017 0.43           | 0.035          | 0.9  | 0.191      | 4.85 |

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**CASVOLT™ 250 UL/cUL**

**Style 1911**

**-65°C to +250°C, 5kV-50kV**



**40kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in) (mm)            |                |      |            |      |
| 40kV    | 6410164        | 24         | 7                   | 0.008 0.20           | 0.039          | 1    | 0.102      | 2.60 |
|         | 6410165        | 22         | 19                  | 0.006 0.15           | 0.039          | 1    | 0.108      | 2.75 |
|         | 6410166        | 20         | 19                  | 0.007 0.18           | 0.039          | 1    | 0.114      | 2.90 |
|         | 6410167        | 18         | 19                  | 0.009 0.23           | 0.039          | 1    | 0.124      | 3.15 |
|         | 6410168        | 17         | 19                  | 0.010 0.26           | 0.039          | 1    | 0.130      | 3.30 |
|         | 6410169        | 16         | 19                  | 0.012 0.30           | 0.039          | 1    | 0.138      | 3.50 |
|         | 6410170        | 14         | 19                  | 0.015 0.37           | 0.039          | 1    | 0.152      | 3.85 |
|         | 6410171        | 12         | 19                  | 0.019 0.48           | 0.039          | 1    | 0.173      | 4.40 |
|         | 6410172        | 10         | 37                  | 0.017 0.43           | 0.039          | 1    | 0.199      | 5.05 |

**50kV**

| Voltage | CASMO Part No. | Wire gauge | Conductor structure |                      | Wall thickness |      | Final O.D. |      |
|---------|----------------|------------|---------------------|----------------------|----------------|------|------------|------|
|         |                | (AWG)      | # Strands           | Diam. Of Strands(mm) | (in)           | (mm) | (in)       | (mm) |
|         |                |            |                     | (in) (mm)            |                |      |            |      |
| 50kV    | 6410173        | 24         | 7                   | 0.008 0.20           | 0.045          | 1.15 | 0.114      | 2.90 |
|         | 6410174        | 22         | 19                  | 0.006 0.15           | 0.045          | 1.15 | 0.120      | 3.05 |
|         | 6410175        | 20         | 19                  | 0.007 0.18           | 0.045          | 1.15 | 0.126      | 3.20 |
|         | 6410176        | 18         | 19                  | 0.009 0.23           | 0.045          | 1.15 | 0.136      | 3.45 |
|         | 6410177        | 17         | 19                  | 0.010 0.26           | 0.045          | 1.15 | 0.142      | 3.60 |
|         | 6410178        | 16         | 19                  | 0.012 0.30           | 0.045          | 1.15 | 0.150      | 3.80 |
|         | 6410179        | 14         | 19                  | 0.015 0.37           | 0.045          | 1.15 | 0.163      | 4.15 |
|         | 6410180        | 12         | 19                  | 0.019 0.48           | 0.045          | 1.15 | 0.185      | 4.70 |
|         | 6410181        | 10         | 37                  | 0.017 0.43           | 0.045          | 1.15 | 0.211      | 5.35 |

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