

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

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10kV

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)				
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 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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-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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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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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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