

CASVOLT™ 200 UL/cUL

Style 3239
-60°C to +150°C

3KV, 6KV, 10KV, 20KV, 30KV, 40KV, 50KV



Construction

Type: electrical wire
Core: bare, tin-plated, nickel-plated or silver-plated copper
Insulation: silicone rubber

Production

Range width: AWG 24 to 14
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: -60°C to +150°C
Short-time withstand temperature: 220°C

Electrical characteristics

Operating Voltage: 3KV, 6KV, 10KV, 20KV, 30KV, 40KV, 50KV
Test voltage: according to the operating voltage

Approvals – Standards

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

3kv

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)				
3kv	6310101	26	7	0.006	0.16	0.022	0.55	0.062	1.58
	6310102	24	7	0.008	0.20	0.022	0.55	0.067	1.71
	6310103	22	19	0.006	0.15	0.022	0.55	0.073	1.86
	6310104	20	19	0.007	0.18	0.022	0.55	0.079	2.00
	6310105	18	19	0.009	0.23	0.022	0.55	0.089	2.25
	6310106	16	19	0.012	0.30	0.022	0.55	0.102	2.60
	6310107	14	19	0.015	0.37	0.022	0.55	0.118	3.00

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6kV

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)				
6kV	6310108	26	7	0.008	0.20	0.033	0.85	0.086	2.18
	6310109	24	19	0.006	0.15	0.033	0.85	0.091	2.31
	6310110	22	19	0.007	0.18	0.033	0.85	0.097	2.46
	6310111	20	19	0.009	0.23	0.033	0.85	0.102	2.60
	6310112	18	19	0.010	0.26	0.033	0.85	0.112	2.85
	6310113	16	19	0.012	0.30	0.033	0.85	0.126	3.20
	6310114	14	19	0.015	0.37	0.033	0.85	0.142	3.60

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	6310115	26	7	0.008	0.20	0.039	1	0.098	2.48
	6310116	24	19	0.006	0.15	0.039	1	0.103	2.61
	6310117	22	19	0.007	0.18	0.039	1	0.109	2.76
	6310118	20	19	0.009	0.23	0.039	1	0.114	2.90
	6310119	18	19	0.010	0.26	0.039	1	0.124	3.15
	6310120	16	19	0.012	0.30	0.039	1	0.138	3.50
	6310121	14	19	0.015	0.37	0.039	1	0.154	3.90

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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	6310122	24	7	0.008	0.20	0.051	1.3	0.121	3.08
	6310123	22	19	0.006	0.15	0.051	1.3	0.126	3.21
	6310124	20	19	0.007	0.18	0.051	1.3	0.132	3.36
	6310125	18	19	0.009	0.23	0.051	1.3	0.138	3.50
	6310126	17	19	0.010	0.26	0.051	1.3	0.148	3.75
	6310127	16	19	0.012	0.30	0.051	1.3	0.161	4.10
	6310128	14	19	0.015	0.37	0.051	1.3	0.177	4.50

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	6310129	26	7	0.008	0.20	0.079	2.0	0.176	4.48
	6310130	24	19	0.006	0.15	0.079	2.0	0.181	4.61
	6310131	22	19	0.007	0.18	0.079	2.0	0.187	4.76
	6310132	20	19	0.009	0.23	0.079	2.0	0.193	4.90
	6310133	18	19	0.010	0.26	0.079	2.0	0.203	5.15
	6310134	16	19	0.012	0.30	0.079	2.0	0.217	5.50
	6310135	14	19	0.015	0.37	0.079	2.0	0.232	5.90

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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	6310136	26	7	0.008	0.20	0.091	2.3	0.200	5.08
	6310137	24	19	0.006	0.15	0.091	2.3	0.205	5.21
	6310138	22	19	0.007	0.18	0.091	2.3	0.211	5.36
	6310139	20	19	0.009	0.23	0.091	2.3	0.217	5.50
	6310140	18	19	0.010	0.26	0.091	2.3	0.226	5.75
	6310141	16	19	0.012	0.30	0.091	2.3	0.240	6.10
	6310142	14	19	0.015	0.37	0.091	2.3	0.256	6.50

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	6310143	26	7	0.008	0.20	0.102	2.6	0.224	5.68
	6310144	24	19	0.006	0.15	0.102	2.6	0.229	5.81
	6310145	22	19	0.007	0.18	0.102	2.6	0.235	5.96
	6310146	20	19	0.009	0.23	0.102	2.6	0.240	6.10
	6310147	18	19	0.010	0.26	0.102	2.6	0.250	6.35
	6310148	16	19	0.012	0.30	0.102	2.6	0.264	6.70
	6310149	14	19	0.015	0.37	0.102	2.6	0.280	7.10

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