

**600 Volt Thermoset Silicone (Multiple Conductors)**



**Description**

- Conductor . . . . . 7-strand tinned copper, Class B
- Primary insulation. . . . . 30 mils (0.8 mm) 90°C thermoset silicone alloy,  
15 mils (0.4 mm) nylon covering
- Color code . . . . . ICEA Method 4, black and numbered
- Jacket . . . . . Black TPN

**Application**

- Provides extended service while exposed to fire
- Meets IEC 331 and BS 6387 C, S and Z fire tests
- 600 volt rated insulation
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 340
- UL listed as Type TC

**Bending Radius**

- 6 x d (d = overall diameter)

**Cable Type**

- 6S35 – Multiple conductor control cable

**Other Options**

- Manufactured in accordance with UL. Also available to ICEA, IEC, BS standards or customized configurations.
- Cable constructions to meet BS 6387 C, S, W and Z
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials

*The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.*



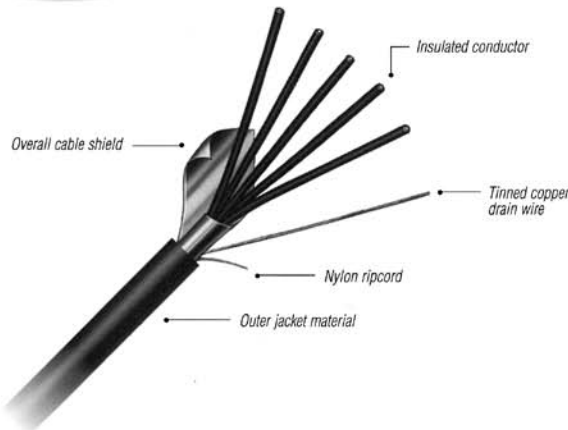
Electrical Properties	Units		Conductor Size									
			16 AWG / 1.3 mm <sup>2</sup>		14 AWG / 2.0 mm <sup>2</sup>		12 AWG / 3.3 mm <sup>2</sup>		1.5 mm <sup>2</sup>		2.5 mm <sup>2</sup>	
Resistance (R)	Ω/Mft	Ω/km	4.4	14.5	2.7	9.0	1.7	5.6	3.8	12.4	2.3	7.5
Mutual Capacitance	pF/ft	pF/m	14	45	14	48	15	52	14	47	15	51
L/R Ratio	μH/Ω	μH/Ω	26	26	39	39	51	51	30	30	45	45
Inductance (L)	μH/ft	μH/m	0.23	0.75	0.21	0.70	0.18	0.58	0.22	0.74	0.21	0.68

## Product Dimensions

600V UL Control Part Number	Conductors	Nominal O.D.		Weight		Jacket Thickness	
		in	mm	lb/ft	kg/m	mils	mm
<b>Conductor size: 16 AWG / 1.3 mm<sup>2</sup></b>							
6S35-60263	2	0.415	10.5	0.087	0.130	45	1.14
6S35-60363	3	0.447	11.4	0.109	0.163	45	1.14
6S35-60563	5	0.530	13.5	0.156	0.232	45	1.14
6S35-60763	7	0.616	15.6	0.223	0.331	60	1.52
6S35-60963	9	0.709	18.0	0.274	0.408	60	1.52
6S35-61263	12	0.794	20.2	0.343	0.511	60	1.52
6S35-61963	19	0.963	24.5	0.531	0.791	80	2.03
6S35-63763	37	1.270	32.3	0.924	1.376	80	2.03
<b>Conductor size: 14 AWG / 2.1 mm<sup>2</sup></b>							
6S35-40263	2	0.444	11.3	0.103	0.153	45	1.14
6S35-40363	3	0.479	12.2	0.132	0.196	45	1.14
6S35-40563	5	0.610	15.5	0.216	0.321	60	1.52
6S35-40763	7	0.661	16.8	0.273	0.407	60	1.52
6S35-40963	9	0.764	19.4	0.338	0.504	60	1.52
6S35-41263	12	0.896	22.8	0.463	0.639	80	2.03
6S35-41963	19	1.038	26.4	0.663	0.988	80	2.03
6S35-43763	37	1.375	34.9	1.174	1.748	80	2.03
<b>Conductor size: 12 AWG/3.31 mm<sup>2</sup></b>							
6S35-20263	2	0.481	12.2	0.126	0.187	45	1.14
6S35-20363	3	0.520	13.2	0.164	0.245	45	1.14
6S35-20563	5	0.662	16.8	0.271	0.403	60	1.52
6S35-20763	7	0.718	18.2	0.347	0.517	60	1.52
6S35-20963	9	0.832	21.1	0.433	0.645	60	1.52
6S35-21263	12	0.975	24.8	0.590	0.879	80	2.03
6S35-21963	19	1.133	28.8	0.859	1.280	80	2.03
6S35-23763	37	1.508	38.3	1.545	2.302	80	2.03
<b>Conductor size: 1.5 mm<sup>2</sup></b>							
6S35-N0263	2	0.422	10.7	0.092	0.137	45	1.14
6S35-N0363	3	0.455	11.6	0.116	0.173	45	1.14
6S35-N0563	5	0.581	14.8	0.189	0.282	60	1.52
6S35-N0763	7	0.628	15.9	0.237	0.353	60	1.52
6S35-N0963	9	0.724	18.4	0.292	0.435	60	1.52
6S35-N1263	12	0.811	20.6	0.366	0.545	60	1.52
6S35-N1963	19	0.983	25.0	0.566	0.843	80	2.03
6S35-N3763	37	1.298	33.0	0.990	1.474	80	2.03
<b>Conductor size: 2.5 mm<sup>2</sup></b>							
6S35-P0263	2	0.457	11.6	0.118	0.176	45	1.14
6S35-P0363	3	0.494	12.5	0.150	0.224	45	1.14
6S35-P0563	5	0.629	16.0	0.242	0.361	60	1.52
6S35-P0763	7	0.682	17.3	0.306	0.456	60	1.52
6S35-P0963	9	0.789	20.0	0.379	0.564	60	1.52
6S35-P1263	12	0.925	23.5	0.514	0.766	80	2.03
6S35-P1963	19	1.073	27.3	0.738	1.100	80	2.03
6S35-P3763	37	1.424	36.2	1.309	1.949	80	2.03

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1S35



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- Color code . . . . . ICEA Method 4, black and numbered
- Jacket . . . . . Black TPN

**Application**

- Provides extended service while exposed to fire
- Meets IEC 331 and BS 6387 C, S and Z fire tests
- 600 volt rated insulation per ICEA
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas

**Bending Radius**

- 6 x d (d = overall diameter)

**Cable Type**

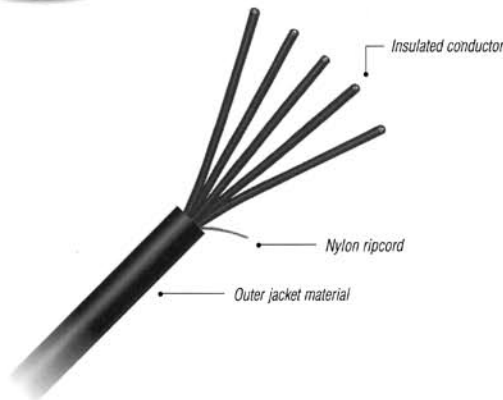
- 1S35 – Multiple conductor control cable

**Other Options**

- Manufactured in accordance with ICEA. Also available to IEC, BS standards or customized configurations.
- Cable constructions to meet BS 6387 C, S, W and Z
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials

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1S35



Electrical Properties	Units		Conductor Size									
			16 AWG / 1.3 mm <sup>2</sup>		14 AWG / 2.0 mm <sup>2</sup>		12 AWG / 3.3 mm <sup>2</sup>		1.5 mm <sup>2</sup>		2.5 mm <sup>2</sup>	
Resistance (R)	Ω/Mft	Ω/km	4.4	14.5	2.7	9.0	1.7	5.6	3.8	12.4	2.3	7.5
Mutual Capacitance	pF/ft	pF/m	16	51	17	54	18	58	16	53	18	58
L/R Ratio	μH/Ω	μH/Ω	23	23	34	34	51	51	26	26	40	40
Inductance (L)	μH/ft	μH/m	0.20	0.66	0.19	0.62	0.18	0.58	0.20	0.65	0.18	0.60

## Product Dimensions

600V ICEA Control Part Number	Conductors	Nominal O.D.		Weight		Jacket Thickness	
		in	mm	lb/ft	kg/m	mils	mm
<b>Conductor Size: 16 AWG / 1.3 mm<sup>2</sup></b>							
1S35-60263	2	0.353	9.0	0.071	0.106	45	1.14
1S35-60363	3	0.379	9.6	0.088	0.131	45	1.14
1S35-60563	5	0.445	11.3	0.124	0.184	45	1.14
1S35-60763	7	0.482	12.2	0.156	0.232	45	1.14
1S35-60963	9	0.596	15.1	0.216	0.322	60	1.52
1S35-61263	12	0.663	16.8	0.269	0.400	60	1.52
1S35-61963	19	0.766	19.5	0.383	0.570	60	1.52
1S35-63763	37	1.050	26.7	0.715	1.064	80	2.03
<b>Conductor Size: 14 AWG / 2.1 mm<sup>2</sup></b>							
1S35-40263	2	0.383	9.7	0.086	0.128	45	1.14
1S35-40363	3	0.411	10.4	0.109	0.162	45	1.14
1S35-40563	5	0.485	12.3	0.157	0.234	45	1.14
1S35-40763	7	0.527	13.4	0.201	0.300	45	1.14
1S35-40963	9	0.650	16.5	0.276	0.411	60	1.52
1S35-41263	12	0.726	18.4	0.347	0.517	60	1.52
1S35-41963	19	0.841	21.4	0.503	0.749	60	1.52
1S35-43763	37	1.155	29.3	0.946	1.409	80	2.03
<b>Conductor Size: 12 AWG / 3.31 mm<sup>2</sup></b>							
1S35-20263	2	0.420	10.7	0.108	0.160	45	1.14
1S35-20363	3	0.452	11.5	0.140	0.208	45	1.14
1S35-20563	5	0.537	13.6	0.207	0.308	45	1.14
1S35-20763	7	0.624	15.8	0.294	0.437	60	1.52
1S35-20963	9	0.719	18.3	0.365	0.544	60	1.52
1S35-21263	12	0.805	20.4	0.464	0.691	60	1.52
1S35-21963	19	0.976	24.8	0.723	1.076	80	2.03
1S35-23763	37	1.288	32.7	1.296	1.930	80	2.03
<b>Conductor Size: 1.5 mm<sup>2</sup></b>							
1S35-N0263	2	0.361	9.2	0.076	0.113	45	1.14
1S35-N0363	3	0.388	9.9	0.095	0.141	45	1.14
1S35-N0563	5	0.456	11.6	0.134	0.199	45	1.14
1S35-N0763	7	0.494	12.5	0.169	0.251	45	1.14
1S35-N0963	9	0.611	15.5	0.233	0.347	60	1.52
1S35-N1263	12	0.680	17.3	0.290	0.432	60	1.52
1S35-N1963	19	0.786	20.0	0.415	0.618	60	1.52
1S35-N3763	37	1.078	27.4	0.776	1.155	80	2.03
<b>Conductor Size: 2.5 mm<sup>2</sup></b>							
1S35-P0263	2	0.396	10.1	0.101	0.150	45	1.14
1S35-P0363	3	0.426	10.8	0.127	0.189	45	1.14
1S35-P0563	5	0.504	12.8	0.181	0.270	45	1.14
1S35-P0763	7	0.588	14.9	0.255	0.380	60	1.52
1S35-P0963	9	0.676	17.2	0.314	0.468	60	1.52
1S35-P1263	12	0.755	19.2	0.395	0.588	60	1.52
1S35-P1963	19	0.916	23.3	0.609	0.906	80	2.03
1S35-P3763	37	1.204	30.6	1.073	1.599	80	2.03