

FLAMROX™ HIGH PERFORMANCE CABLE

Flamrox - Premium Flexible High Temperature Single Conductor Cable, 600V, Temp Rating 450°C, Non-UL 538°C



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible stranded 27% nickel plated, annealed copper
2. **Insulation:** A phlogopite mica tape
3. **Braid:** Fiberglass braid jacket
4. **Tape:** Phlogopite mica tape thermal barrier
5. **Tape:** Fluoropolymer tape moisture barrier
6. **Jacket:** An overall fiberglass braid is treated with a high temperature saturant

APPLICATIONS AND FEATURES:

Used in critical areas where standard high temperature lead wire is not sufficient to maintain circuit integrity due to extreme temperatures, or exposure to open flame. Used for equipment wiring in iron mills, steel mills, glass plants, and cement kilns.

Excellent flame resistance, TFE tape provides a moisture barrier, and produces minimal smoke when exposed to flames. Flexible. Can withstand up to 2400°F short term.

Available with stainless steel braid. Available with insulated or uninsulated ground conductors.

SPECIFICATIONS:

- UL 1277 Vertical Cable Tray Flame Tests (70,000 BTU/Hr)
- ICEA T-29-520 Flame Test (210,000 BTU/Hr)
- IEEE 383 modified 210,000 BTU vertical tray flame test at 1800° F, with circuit integrity for 2 1/2 hours minimum. Provides Circuit Integrity in conduit for up to 30 hours under direct exposure to flame
- RoHS-3 Complies with European Directive 2015/863



Table 1 – Weights and Measurements

Stock Number	Cond. Size AWG/Kcmil	Cond. Number No.	Approx. OD inch	Approx. Weight lb/1000ft	Temp. Rating °C	Standard (UL or other) Style/Type
C55000	20	2	0.285	33	450	UL
C55005	20	3	0.299	45	450	UL
C55010	20	4	0.304	58	450	UL
C55015	20	5	0.360	71	450	UL
C55020	20	7	0.392	94	450	UL
C55030	20	12	0.520	156	450	UL
C55100	18	2	0.308	39	450	UL
C55105	18	3	0.327	55	450	UL
C55110	18	4	0.352	69	450	UL
C55115	18	5	0.391	85	450	UL
C55120	18	7	0.426	114	450	UL
C55130	18	12	0.568	186	450	UL
C55200	16	2	0.326	48	450	UL
C55205	16	3	0.346	66	450	UL
C55210	16	4	0.379	84	450	UL
C55215	16	5	0.415	106	450	UL
C55220	16	7	0.453	144	450	UL
C55230	16	12	0.605	242	450	UL
C55300	14	2	0.366	66	450	UL
C55305	14	3	0.390	93	450	UL
C55310	14	4	0.428	120	450	UL
C55315	14	5	0.469	147	450	UL
C55320	14	7	0.513	198	450	UL
C55330	14	12	0.689	332	450	UL
C55400	12	2	0.400	87	450	UL
C55405	12	3	0.426	120	450	UL
C55410	12	4	0.469	156	450	UL
C55415	12	5	0.515	191	450	UL
C55420	12	7	0.564	261	450	UL
C55430	12	12	0.759	434	450	UL
C55500	10	2	0.516	139	450	UL
C55505	10	3	0.552	198	450	UL
C55510	10	4	0.609	257	450	UL
C55515	10	5	0.671	314	450	UL
C55520	10	7	0.738	425	450	UL
C55530	10	12	1.000	681	450	UL
C55600	8	2	0.596	33	450	UL
C55605	8	3	0.638	45	450	UL
C55610	8	4	0.706	58	450	UL
C55625	6	2	0.686	202	450	UL
C55630	6	3	0.735	286	450	UL
C55635		4	0.820	369		



Stock Number	Cond. Size	Cond. Number	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	inch	lb/1000ft	°C	Style/Type
	6				450	UL
C55650	4	2	0.802	421	450	UL
C55655	4	3	0.861	604	450	UL
C55660	4	4	0.960	792	450	UL
C55675	2	2	0.975	607	450	UL
C55680	2	3	1.047	879	450	UL
C55685	2	4	1.164	1153	450	UL

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

Dimensions and weights for other cable configurations are available upon request.



Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size AWG/Kcmil	Cond. Number No.	Approx. OD mm	Approx. Weight kg/km	Temp. Rating °C	Standard (UL or other) Style/Type
C55000	20	2	7.24	49	450	UL
C55005	20	3	7.59	67	450	UL
C55010	20	4	7.72	86	450	UL
C55015	20	5	9.14	106	450	UL
C55020	20	7	9.96	140	450	UL
C55030	20	12	13.21	232	450	UL
C55100	18	2	7.82	58	450	UL
C55105	18	3	8.31	82	450	UL
C55110	18	4	8.94	103	450	UL
C55115	18	5	9.93	126	450	UL
C55120	18	7	10.82	170	450	UL
C55130	18	12	14.43	277	450	UL
C55200	16	2	8.28	71	450	UL
C55205	16	3	8.79	98	450	UL
C55210	16	4	9.63	125	450	UL
C55215	16	5	10.54	158	450	UL
C55220	16	7	11.51	214	450	UL
C55230	16	12	15.37	360	450	UL
C55300	14	2	9.30	98	450	UL
C55305	14	3	9.91	138	450	UL
C55310	14	4	10.87	179	450	UL
C55315	14	5	11.91	219	450	UL
C55320	14	7	13.03	295	450	UL
C55330	14	12	17.50	494	450	UL
C55400	12	2	10.16	129	450	UL
C55405	12	3	10.82	179	450	UL
C55410	12	4	11.91	232	450	UL
C55415	12	5	13.08	284	450	UL
C55420	12	7	14.33	388	450	UL
C55430	12	12	19.28	646	450	UL
C55500	10	2	13.11	207	450	UL
C55505	10	3	14.02	295	450	UL
C55510	10	4	15.47	382	450	UL
C55515	10	5	17.04	467	450	UL
C55520	10	7	18.75	632	450	UL
C55530	10	12	25.40	1013	450	UL
C55600	8	2	15.14	49	450	UL
C55605	8	3	16.21	67	450	UL
C55610	8	4	17.93	86	450	UL
C55625	6	2	17.42	301	450	UL
C55630	6	3	18.67	426	450	UL
C55635		4	20.83	549		



Stock Number	Cond. Size	Cond. Number	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mm	kg/km	°C	Style/Type
	6				450	UL
C55650	4	2	20.37	627	450	UL
C55655	4	3	21.87	899	450	UL
C55660	4	4	24.38	1179	450	UL
C55675	2	2	24.76	903	450	UL
C55680	2	3	26.59	1308	450	UL
C55685	2	4	29.57	1716	450	UL

