FLAMROX™ HIGH PERFORMANCE CABLE

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

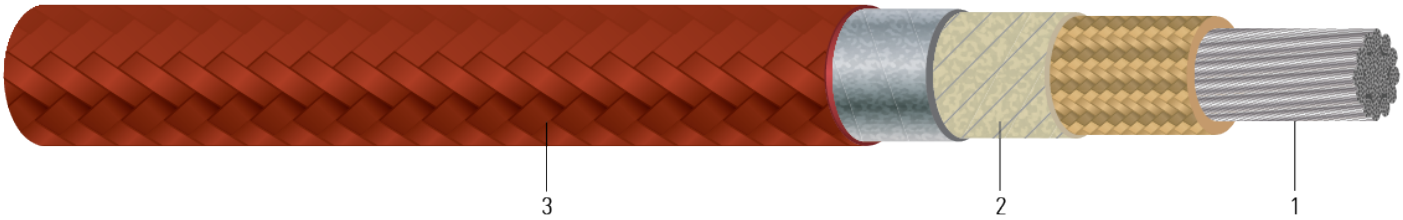

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** flexible stranded 27% nickel plated, annealed copper
2. **Insulation:** A phlogopite mica tape thermal barrier and a fluoropolymer tape moisture barrier are both applied over the core
3. **Jacket:** An overall fiberglass braid is then 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 resistance to high temperature and direct flame, TFE tape provides a moisture barrier, and produces minimal smoke when exposed to flames. Can withstand up to 2400°F short term and Good chemical resistance. Flexible. Armor braid optional.

SPECIFICATIONS:

- 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

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Strands	Braid	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	strand	mil	inch	lb/1000ft	°C	Style/Type
C55055	20	10/.010	25	0.152	27	450	UL
C55155	18	16/.010	25	0.162	30	450	UL
C55255	16	26/.010	25	0.181	34	450	UL
C55355	14	41/.010	25	0.214	40	450	UL
C55455	12	65/.010	25	0.234	50	450	UL
C55555	10	105/.010	30	0.260	90	450	UL
C55615	8	133/.0111	30	0.304	130	450	UL
C55640	6	133/.0141	30	0.347	165	450	UL
C55665	4	133/.0177	30	0.403	220	450	UL
C55690	2	133/.0223	35	0.472	310	450	UL
C55715	1	259/.0180	35	0.515	350	450	UL
C55740	1/0	259/.0201	35	0.561	470	450	UL
C55765	2/0	259/.0226	35	0.614	550	450	UL
C55790	3/0	259/.0255	35	0.673	650	450	UL
C55815	4/0	259/.0285	35	0.738	770	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	Cond. Strands	Braid	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	strand	mm	mm	kg/km	°C	Style/Type
C55055	20	10/.010	0.64	3.86	40	450	UL
C55155	18	16/.010	0.64	4.11	45	450	UL
C55255	16	26/.010	0.64	4.60	51	450	UL
C55355	14	41/.010	0.64	5.44	60	450	UL
C55455	12	65/.010	0.64	5.94	74	450	UL
C55555	10	105/.010	0.76	6.60	134	450	UL
C55615	8	133/.0111	0.76	7.72	193	450	UL
C55640	6	133/.0141	0.76	8.81	246	450	UL
C55665	4	133/.0177	0.76	10.24	327	450	UL
C55690	2	133/.0223	0.89	11.99	461	450	UL
C55715	1	259/.0180	0.89	13.08	521	450	UL
C55740	1/0	259/.0201	0.89	14.25	699	450	UL
C55765	2/0	259/.0226	0.89	15.60	818	450	UL
C55790	3/0	259/.0255	0.89	17.09	967	450	UL
C55815	4/0	259/.0285	0.89	18.75	1146	450	UL