



Not just wire... solutions.

## Products - Flamrox High Performance Cables

### Flamrox High Performance Cables

Flamrox Power Cable - Premium High Temperature Cable  
600 Volts, 450° C (538° C Non UL), #20 AWG - #2 AWG



#### DESCRIPTION:

**Conductor:**

Flexible stranded 27% nickel plated, annealed copper.

**Sizes:**

#20 AWG - #2 AWG

**Insulation:**

Phlogopite mica tapes, fiberglass braid jacket, high-temperature saturant. A phlogopite mica tape thermal barrier and a fluoropolymer tape moisture barrier are both applied over the core. An overall fiberglass braid is then treated with a high temperature saturant.

Armor braid optional.

#### APPROVALS:

UL approved lead wire 450° C. Passes IEEE 383 modified 210,000 BTU vertical tray flame test at 1800° F, with circuit integrity for 2½ hours minimum. Non UL operating temperature can withstand up to 2400° F short term.

#### APPLICATIONS:

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.

### 20 AWG

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
20	10/.010	0.025	.007	.106	2	.008	.0075	.0175	.285	33
20	10/.010	0.025	.007	.106	3	.008	.0075	.0175	.299	45
20	10/.010	0.025	.007	.106	4	.008	.0075	.0175	.304	58
20	10/.010	0.025	.007	.106	5	.008	.0075	.0175	.360	71
20	10/.010	0.025	.007	.106	7	.008	.0075	.0175	.392	94
20	10/.010	0.025	.007	.106	9	.008	.0075	.0175	.457	120
20	10/.010	0.025	.007	.106	12	.008	.0075	.0175	.520	156
20	10/.010	0.025	.007	.106	15	.008	.0075	.0175	.561	193

### 18 AWG

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
18	16/.010	0.025	.007	.118	2	.008	.0075	.0175	.308	39
18	16/.010	0.025	.007	.118	3	.008	.0075	.0175	.327	55
18	16/.010	0.025	.007	.118	4	.008	.0075	.0175	.352	69
18	16/.010	0.025	.007	.118	5	.008	.0075	.0175	.391	85
18	16/.010	0.025	.007	.118	7	.008	.0075	.0175	.426	114
18	16/.010	0.025	.007	.118	9	.008	.0075	.0175	.498	144
18	16/.010	0.025	.007	.118	12	.008	.0075	.0175	.568	186
18	16/.010	0.025	.007	.118	15	.010	.0075	.0175	.614	231

### 16 AWG

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
16	26/.010	0.025	.007	.127	2	.008	.0075	.0175	.326	48
16	26/.010	0.025	.007	.127	3	.008	.0075	.0175	.346	66
16	26/.010	0.025	.007	.127	4	.008	.0075	.0175	.379	84
16	26/.010	0.025	.007	.127	5	.008	.0075	.0175	.415	106
16	26/.010	0.025	.007	.127	7	.008	.0075	.0175	.453	144
16	26/.010	0.025	.007	.127	9	.008	.0075	.0175	.531	184
16	26/.010	0.025	.007	.127	12	.010	.0075	.0175	.605	242
16	26/.010	0.025	.007	.127	15	.010	.0075	.0175	.655	296

**14 AWG**

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
14	41/.010	0.025	.007	.147	2	.008	.0075	.0175	.366	66
14	41/.010	0.025	.007	.147	3	.008	.0075	.0175	.390	93
14	41/.010	0.025	.007	.147	4	.008	.0075	.0175	.428	120
14	41/.010	0.025	.007	.147	5	.008	.0075	.0175	.469	147
14	41/.010	0.025	.007	.147	7	.008	.0075	.0175	.513	198
14	41/.010	0.025	.007	.147	9	.010	.0075	.0175	.603	258
14	41/.010	0.025	.007	.147	12	.010	.0075	.0175	.689	332
14	41/.010	0.025	.007	.147	15	.010	.0075	.0175	.746	407

**12 AWG**

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
12	65/.010	0.025	.007	.164	2	.008	.0075	.0175	.400	87
12	65/.010	0.025	.007	.164	3	.008	.0075	.0175	.426	120
12	65/.010	0.025	.007	.164	4	.008	.0075	.0175	.469	156
12	65/.010	0.025	.007	.164	5	.008	.0075	.0175	.515	191
12	65/.010	0.025	.007	.164	7	.008	.0075	.0175	.564	261
12	65/.010	0.025	.007	.164	9	.010	.0075	.0175	.669	333
12	65/.010	0.025	.007	.164	12	.010	.0075	.0175	.759	434
12	65/.010	0.025	.007	.164	15	.010	.0075	.0175	.823	541

**10 AWG**

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
10	105/.010	0.030	.015	.222	2	.008	.0075	.0175	.516	139
10	105/.010	0.030	.015	.222	3	.008	.0075	.0175	.552	198
10	105/.010	0.030	.015	.222	4	.010	.0075	.0175	.609	257
10	105/.010	0.030	.015	.222	5	.010	.0075	.0175	.671	314
10	105/.010	0.030	.015	.222	7	.010	.0075	.0175	.738	425
10	105/.010	0.030	.015	.222	9	.010	.0075	.0175	.878	548
10	105/.010	0.030	.015	.222	12	.010	.0075	.0175	1.000	681

**8 AWG**

AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
8	133/.0111	0.030	.015	.262	2	.010	.0075	.0175	.596	202
8	133/.0111	0.030	.015	.262	3	.010	.0075	.0175	.638	286
8	133/.0111	0.030	.015	.262	4	.010	.0075	.0175	.706	369
8	133/.0111	0.030	.015	.262	5	.010	.0075	.0175	.784	454
8	133/.0111	0.030	.015	.262	7	.010	.0075	.0175	.863	627

6 AWG										
AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
6	133/.0141	0.030	.015	.307	2	.010	.0075	.0175	.686	202
6	133/.0141	0.030	.015	.307	3	.010	.0075	.0175	.735	286
6	133/.0141	0.030	.015	.307	4	.010	.0075	.0175	.820	369
6	133/.0141	0.030	.015	.307	7	.010	.0075	.0175	.998	454

4 AWG										
AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
4	133/.0177	0.030	.015	.365	2	.010	.0075	.0175	.802	421
4	133/.0177	0.030	.015	.365	3	.010	.0075	.0175	.861	604
4	133/.0177	0.030	.015	.365	4	.010	.0075	.0175	.960	792

2 AWG										
AWG	NCC Stranding	MICA/Glass Insulation Thickness	Conductor Jacket Thickness	Cond. OD	No. of Cond.'s	MICA/Glass Thermal Barrier Thickness	TFE Tape Moisture Barrier Thickness	Outer Glass Braid Jacket Thickness	Overall Cable OD	Weight Lbs/M'
2	133/.0223	0.035	.020	.449	2	.010	.0075	.0175	.975	607
2	133/.0223	0.035	.020	.449	3	.010	.0075	.0175	1.047	879
2	133/.0223	0.035	.020	.449	4	.010	.0075	.0175	1.164	1,153

Dimensions and weights shown are nominal, subject to industry tolerances. Dimensions and weights for other cable configurations are available upon request.