

## FLAT-FLEX®

Festooning cable / 105° C TO -40° C / 16 to 2/0 AWG / PVC jacket / 600V



### Applications

FLAT-FLEX® Festooning Cable is primarily designed for use with festoon systems for the conveyance of electrical power and control to cranes, hoists, or any other equipment which travels with a lateral traversing motion.

FLAT-FLEX cables can also be used where space is at a premium, since it can be stacked; or where extreme flexing is a requirement, recommended bend radius of three to five times cable diameter.

FLAT-FLEX cables are suitable for either indoor or outdoor applications operating at -40°C to 105°C. However, they are not recommended for severe flexing or impact at temperatures below -10°C. For severe flexing applications below -10°C, specify FLAT-FLEX® Neoprene Festoon Cables.

### Specifications and Ratings

- UL Listed (E325523)
- CSA certified (LL231593), 600 volts, 105°C to -40°C.



### Construction Options

Consult the factory for FLAT-FLEX® cables designed and manufactured in a variety of alternative constructions for specific applications.

Options include:

- Coaxial
- Fiber optic
- Twisted shielded pairs
- Composite conductors

### Design Parameters

**CONDUCTORS:** Extra-flexible stranding (Class M for 16 and 14 AWG and Class K for 12 AWG and larger), soft-drawn uncoated copper per ASTM B-3, ASTM B-172, UL-62 and CSA Electrical Bulletin 1447 for high flexibility and increased flex-life in festooning applications.

**INSULATION:** Color-coded, flame & oil-resistant 105°C PVC per UL-62 (CSA FT-1 flame rated) for easy conductor identification, suitable for use in oil and chemical environments, higher ampacity rating.

**CABLING:** Flat parallel conductor grouping, one rip cord per group, and webbing between groups for easy stacking of multiple cables in smaller space, enhanced stability in outdoor applications against crosswinds, cable integrity, reduced conductor stress/increased flex-life and easy jacket stripping.

**JACKET:** Either yellow or black flame & oil-resistant PVC jacket per UL VW-1 and CSA FT-1, suitable for use indoors and outdoors in oil and chemical environments.

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## FLAT-FLEX Cables

Part Number	Conductor Color	Conductor Number	Conductor Size	Stranding	Nominal Insulation Thickness in (mm)	Nominal Cable Dimensions in (mm)	Ampacity <sup>1</sup>	Approximate Cable Weight Lbs/Mft (Kg/Km)
023595	Black	8	16 AWG	65/34	.030 (.76)	.225 x 1.170 (5.7 x 29.7)	14	194 (289)
023596	Yellow	8	16 AWG	65/34	.030 (.76)	.225 x 1.170 (5.7 x 29.7)	14	194 (289)
023597	Black	12	16 AWG	65/34	.030 (.76)	.225 x 1.700 (5.7 x 43.2)	14	292 (434)
023598	Yellow	12	16 AWG	65/34	.030 (.76)	.225 x 1.700 (5.7 x 43.2)	14	292 (434)
023599	Black	4	14 AWG	105/34	.030 (.76)	.240 x 0.690 (6.1 x 17.5)	27	138 (206)
023600	Yellow	4	14 AWG	105/34	.030 (.76)	.240 x 0.690 (6.1 x 17.5)	27	138 (206)
023601	Black	8	14 AWG	105/34	.030 (.76)	.240 x 1.290 (6.1 x 32.8)	19	254 (377)
023602	Yellow	8	14 AWG	105/34	.030 (.76)	.240 x 1.290 (6.1 x 32.8)	19	254 (377)
023603	Black	12	14 AWG	105/34	.030 (.76)	.240 x 1.825 (6.1 x 46.4)	19	380 (566)
023604	Yellow	12	14 AWG	105/34	.030 (.76)	.240 x 1.825 (6.1 x 46.4)	19	380 (566)
023605	Black	4	12 AWG	65/30	.030 (.76)	.260 x 0.800 (6.6 x 20.3)	33	180 (267)
023606	Yellow	4	12 AWG	65/30	.030 (.76)	.260 x 0.800 (6.6 x 20.3)	33	180 (267)
023607	Black	8	12 AWG	65/30	.030 (.76)	.260 x 1.440 (6.6 x 36.6)	23	343 (510)
023608	Yellow	8	12 AWG	65/30	.030 (.76)	.260 x 1.440 (6.6 x 36.6)	23	343 (510)
023609	Black	4	10 AWG	105/30	.030 (.76)	.290 x 0.890 (7.4 x 22.6)	44	239 (356)
023610	Yellow	4	10 AWG	105/30	.030 (.76)	.290 x 0.890 (7.4 x 22.6)	44	239 (356)
023611	Black	4	8 AWG	168/30	.045 (1.1)	.375 x 1.225 (9.5 x 31.1)	60	401 (596)
023612	Yellow	4	8 AWG	168/30	.045 (1.1)	.375 x 1.225 (9.5 x 31.1)	60	401 (596)
023613	Black	4	6 AWG	259/30	.060 (1.5)	.450 x 1.500 (11.4 x 38.1)	82	635 (945)
023614	Yellow	4	6 AWG	259/30	.060 (1.5)	.450 x 1.500 (11.4 x 38.1)	82	635 (945)
023615	Black	4	4 AWG	413/30	.060 (1.5)	.515 x 1.750 (13.1 x 44.0)	104	896 (1333)
023616	Yellow	4	4 AWG	413/30	.060 (1.5)	.515 x 1.750 (13.1 x 44.0)	104	896 (1333)
023617	Black	4	2 AWG	665/30	.060 (1.5)	.575 x 1.975 (14.6 x 50.2)	142	278 (1901)
023618	Yellow	4	2 AWG	665/30	.060 (1.5)	.575 x 1.975 (14.6 x 50.2)	142	278 (1901)
028497	Black	4	2/0 AWG	1323/30	.080 (2.0)	.800 x 2.820 (20.3 x 71.6)	213	2613 (3888)
<b>Shielded FLAT-FLEX Cables (each conductor has a tinned copper braid shield)</b>								
023619	Black	4	16 AWG	65/34	.030 (.76)	.250 x 0.800 (6.4 x 20.3)	20	162 (241)
023621	Black	12	16 AWG	65/34	.030 (.76)	.260 x 2.125 (6.6 x 54.0)	14	456 (680)
023622	Black	12	14 AWG	105/34	.030 (.76)	.270 x 2.200 (6.9 x 55.9)	19	521 (754)
<b>Five Conductor FLAT-FLEX Cables</b>								
024303	Black	5	12 AWG	65/30	.030 (.76)	.260 x 0.990 (6.6 x 25.2)	23	200 (298)
024304	Black	5	10 AWG	105/30	.030 (.76)	.290 x 1.150 (7.4 x 29.2)	31	293 (436)
024305	Black	5	6 AWG	259/30	.060 (1.5)	.450 x 1.900 (11.4 x 48.3)	57	794 (1181)
024306	Black	5	4 AWG	413/30	.060 (1.5)	.525 x 2.250 (13.3 x 57.2)	73	1226 (1824)
024307	Black	5	2 AWG	665/30	.060 (1.5)	.570 x 2.530 (14.5 x 64.8)	99	1746 (2598)

<sup>1</sup>Ampacity based on single cable in free air 30° C ambient, 90° C conductor temperature. The data herein is approximate and subject to normal manufacturing tolerances.

### FLAT-FLEX color codes

Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Stripe
1	Black	---	7	Red	Black
2	Red	---	8	Lt. Blue	Black
3	Blue	---	9	Orange	Black
4	Orange	---	10	Yellow	Black
5	Yellow	---	11	Brown	Black
6	Brown	---	12	Black	Red

### FLAT-FLEX

#### five conductor color codes

Conductor Number	Base Color
1	Black
2	White
3	Green
4	Red
5	Blue

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