

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.

FEATURES AND BENEFITS

1. 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.

2. INSULATION

Color-coded, flame- and 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.

3. 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.

4. JACKET

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

RATINGS

UL Listed (E60362)

CSA certified (File No. LL36970), 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





FLAT-FLEX®

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

Part Number	Jacket Color	Conductor Number	Conductor Size	Stranding	Nominal Insulation Thickness in (mm)	Nominal Cable O.D. in (mm)	Ampacity ¹	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							
023597	Black	12	16 AWG	65/34	.030 (.76)	.225 x 1.700 (5.7 x 43.2)	14	292 (434)
023598	Yellow							
023599	Black	4	14 AWG	105/34	.030 (.76)	.240 x 0.690 (6.1 x 17.5)	27	138 (206)
023600	Yellow							
023601	Black	8	14 AWG	105/34	.030 (.76)	.240 x 1.290 (6.1 x 32.8)	19	254 (377)
023602	Yellow							
023603	Black	12	14 AWG	105/34	.030 (.76)	.240 x 1.825 (6.1 x 46.4)	19	380 (566)
023604	Yellow							
023605	Black	4	12 AWG	65/30	.030 (.76)	.260 x 0.800 (6.6 x 20.3)	33	180 (267)
023606	Yellow							
023607	Black	8	12 AWG	65/30	.030 (.76)	.260 x 1.440 (6.6 x 36.6)	23	343 (510)
023608	Yellow							
023609	Black	4	10 AWG	105/30	.030 (.76)	.290 x 0.890 (7.4 x 22.6)	44	239 (356)
023610	Yellow							
023611	Black	4	8 AWG	168/30	.045 (1.1)	.375 x 1.225 (9.5 x 31.1)	60	401 (596)
023612	Yellow							
023613	Black	4	6 AWG	259/30	.060 (1.5)	.450 x 1.500 (11.4 x 38.1)	82	635 (945)
023614	Yellow							
023615	Black	4	4 AWG	413/30	.060 (1.5)	.515 x 1.750 (13.1 x 44.0)	104	896 (1333)
023616	Yellow							
023617	Black	4	2 AWG	665/30	.060 (1.5)	.575 x 1.975 (14.6 x 50.2)	142	278 (1901)
023618	Yellow							
025558	Black	4	1/0 AWG	1045/30	.080 (2.0)	.750 x 2.600 (19.1 x 66.0)	186	2221 (3305)
028497	Black	4	2/0 AWG	1323/30	.080 (2.0)	.800 x 2.820 (20.3 x 71.6)	213	2613 (3888)

SHIELDED FLAT-FLEX CABLE (EACH CONDUCTOR HAS A TINNED COPPER BRAID SHIELD)

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)

FIVE CONDUCTOR FLAT-FLEX CABLES

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)

¹Ampacity based on single cable in free air 30°C ambient, 105°C conductor temperature.

FLAT-FLEX® COLOR CODE

Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Stripe Color
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 CODE

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

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.