

Gardex® CRC

Armored Power & Control
Critical Circuit Cable

Silicone Rubber Insulation
Aluminum Armor
PVC Outer Jacket

125°C*, 600 Volt
2000°F Flame Test
NEC Type MC
UL Type CWCMC
UL Listed

Spec. RSS-8-008

Scope

Gardex® CRC cable is designed for highly critical (life safety) electrical circuits where cable may be subject to very high temperatures, vibration and flame. Typical applications include electric

motors, offshore drilling platforms, emergency lighting, communications circuits and other critical applications where circuit integrity in a fire is essential.

Features

- Maintains circuit integrity in fire conditions
- Extremely heat resistant
- Flame retardant
- Heat, moisture, oil and fluid resistant
- Acid and alkali resistant
- Armor is impact and crush resistant
- Welded armor forms an impervious barrier
- Flexible
- Self-contained conduit and wiring system
- All jackets have printed sequential footage markers for improved inventory control

Performance Standards

- Insulation resistance (IR) is in excess of 10,000 ohms in 60 minute 2000°F flame test per Mil-W-25038
- Passes IEC 331 flame test (3 hours @ 750°C)
- Passes IEC 331 flame test modified to 3 hours @ 1093°C.
- Passes IEEE 383 and ICEA 70,000 BTU/hr and ICEA 210,000 BTU/hr gas ribbon burner vertical tray flame tests
- Cables pass 70,000 BTU/hr vertical tray flame test as per UL 1581 and is UL listed for CT use
- Meets the conditions of the flame and vibration test as specified in Mil-W-25038
- Silicone rubber insulation is in accordance with ICEA S-95-658

* Gardex CRC is UL listed for 90°C. Silicone rubber insulation is rated for 125°C. (200°C emergency & 300°C for short circuit conditions)

Construction

Conductor:

For 14-10 AWG, flexible stranded, nickel-coated copper per ASTM B-355; 8 AWG and larger, Class B tin coated copper per ASTM B-8 & B-33

Insulation:

Rocktherm® silicone rubber

Covering:

Glass braid

Conductor Identification:

Sizes 14-10 AWG are printed per ICEA Method 3 printed number and name of color per K-2 sequence over white braid. Larger sizes use ICEA Method 4 printed number code

Ground Wire:

When required, stranded, annealed, tinned copper

Fillers:

(When required)

Binder Tape:

Helically applied

Armor:

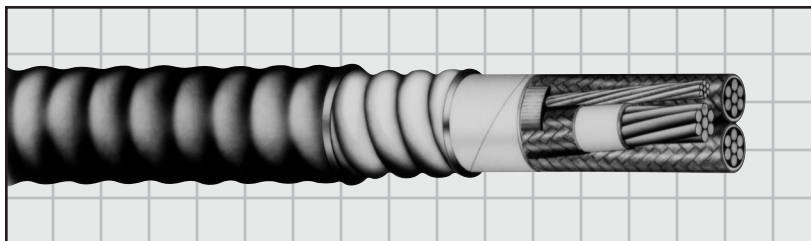
Continuously welded, corrugated aluminum

Jacket:

Polyvinyl chloride (PVC) (Also available with LSZH jacket)

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Gardex® CRC Control

Product Code	Number of Conductors	Size (AWG/kcmil)	Insulation Thickness (Inch) (mm)	Core Diameter (Inch)	Armor Thickness (Mils)	Armor Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter (Inch) (mm)	Approximate Net Weight (Lbs/M')
S18-3271	2	14	.030 .76	.30	25	.48	50	.59 15.0	150
S18-3272	3	14	.030 .76	.32	25	.48	50	.59 15.0	165
S18-3273	4	14	.030 .76	.36	25	.54	50	.65 16.5	200
S18-3274	5	14	.030 .76	.40	25	.58	50	.69 17.5	240
S18-3275	7	14	.030 .76	.44	25	.62	50	.73 18.5	270
S18-3276	9	14	.030 .76	.53	25	.74	50	.85 21.6	340
S18-3277	12	14	.030 .76	.60	25	.84	50	.95 24.1	415
S18-3278	2	12	.045 1.14	.39	25	.58	50	.69 17.5	200
S18-3279	3	12	.045 1.14	.42	25	.62	50	.73 18.5	235
S18-3280	4	12	.045 1.14	.47	25	.66	50	.77 19.6	280
S18-3281	5	12	.045 1.14	.52	25	.74	50	.85 21.6	325
S18-3282	7	12	.045 1.14	.58	25	.84	50	.95 24.1	420
S18-3283	9	12	.045 1.14	.70	25	.97	50	1.07 27.2	515
S18-3284	12	12	.045 1.14	.80	25	1.07	50	1.17 29.7	625
S18-3285	2	10	.045 1.14	.47	25	.70	50	.81 20.6	270
S18-3286	3	10	.045 1.14	.51	25	.74	50	.85 21.5	325
S18-3287	4	10	.045 1.14	.57	25	.78	50	.89 22.6	390
S18-3288	5	10	.045 1.14	.64	25	.88	50	.99 25.2	455
S18-3289	7	10	.045 1.14	.71	25	.97	50	1.07 27.2	575
S18-3290	9	10	.045 1.14	.85	25	1.13	50	1.24 31.5	730
S18-3291	12	10	.045 1.14	.97	25	1.26	50	1.37 34.8	900

Gardex® CRC Power

Product Code	Number of Conductors	Size (AWG/kcmil)	Insulation Thickness (Inch) (mm)	Ground Wire(s) Qty.-Size	Core Diameter (Inch)	Armor Thickness (Mils)	Armor Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter (Inch) (mm)	Approximate Net Weight (Lbs/M')
S18-3292	3	8	.060 1.52	1 - 10	.61	25	.84	50	.95 24.1	465
S18-3293	3	6	.060 1.52	1 - 8	.69	25	.97	50	1.07 27.2	630
S18-3294	3	4	.060 1.52	1 - 8	.80	25	1.07	50	1.18 30.0	815
S18-3295	3	2	.060 1.52	1 - 6	.92	25	1.13	50	1.24 31.5	1125
S18-3296	3	1/0	.080 2.03	1 - 6	1.27	25	1.64	60	1.77 45.0	1820
S18-3297	3	2/0	.080 2.03	1 - 6	1.37	32	1.71	60	1.84 46.7	2170
S18-3298	3	3/0	.080 2.03	1 - 4	1.48	32	1.87	60	2.00 50.8	2640
S18-3299	3	4/0	.080 2.03	1 - 4	1.60	32	2.02	60	2.15 54.6	3150
S18-3300	3	250	.095 2.41	1 - 4	1.77	32	2.25	75	2.38 60.5	3690
S18-3301	3	350	.095 2.41	1 - 3	2.00	32	2.47	75	2.63 66.8	4990
S18-3302	3	500	.095 2.41	1 - 2	2.31	32	2.81	75	2.97 75.4	6690