

Gardex® CC

Armored Control Cable

XLPE Insulation
 Aluminum Armor
 PVC Outer Jacket
 UL Listed
 90°C*, 600 Volt
 NEC Type MC-HL
 UL Type CWCMC
 UL1309/CSA C22.2 No.245
 Marine Shipboard Cable
 Spec. RSS-8-001

Scope

Gardex® CC cable is a completely self-contained wiring system. It is designed for use in applications where resistance to mechanical and physical abuse is required. Gardex® CC is flexible and its impervious armor prevents the entrance of water, gas, and corro-

sive elements into the electrical core. Gardex® CC may be installed in tray, duct, conduit, self-supported, or in direct burial applications. It is used in all types of commercial, industrial, petrochemical and utility applications. Composite cables are available.

Features

- Thermoset insulation
- Welded armor forms an impervious barrier
- Superior mechanical properties
- Armor is impact and crush resistant
- Aluminum armor meets UL requirements as equipment grounding conductor
- Oil, sunlight, and moisture resistant
- Flame retardant
- Self-contained conduit and wiring system
- Aluminum sheath provides superior electrical shielding performance for A.C. drive applications
- Suitable for low temperature applications
- All jackets have printed sequential footage markers for improved inventory control

Performance Standards

- UL listed, NEC Type MC-HL, UL 2225
- Approved for use in Class I, Division 1 hazardous locations
- Cables pass 70,000 BTU/hr vertical tray flame test, as per UL 1581 and is UL listed for CT use
- Cables pass the ICEA 210,000 BTU/hr and 70,000 BTU/hr vertical tray flame tests and the IEEE-383 70,000 BTU/hr vertical tray flame test
- UL approved and marked with the "FT-4" designation (flame test)
- UL approved and marked with the "-40°C" designation meeting the cold impact requirement of CSA-C22.2 No. 0.3
- UL listed as Type CWCMC to IEEE-45/IEEE 1580 (46 CFR Part 111.60-23) Marine Shipboard Cable.
- Listed in API-14F
- ABS Recognized
- Cross-linked polyethylene (XLPE) insulation is in accordance with ICEA S-95-658 and UL 44 for type XHHW-2

Construction

Conductor:

Annealed copper, Class "B" strand per ASTM B-3 & B-8

Insulation:

Crosslinked polyethylene (XLPE)

Circuit Identification:

Colored insulation per ICEA Method 1, Table E-2

Ground Wire(s):

Annealed copper, Class "B" strand sized per NEC requirements

Fillers:

(When required)

Binder Tape:

Helically applied

Armor:

Continuously welded and corrugated aluminum

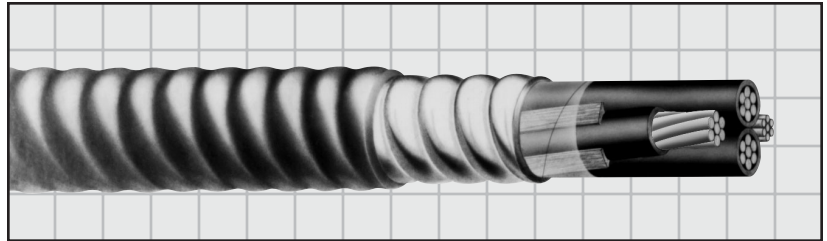
Jacket:

Flame retardant polyvinyl chloride (PVC)

* Rated 90°C for normal operation in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

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Gardex® CC Control

| Product Code* | Size (AWG) | Number of Conductors | Ground Wires Qty-Size | Insulation Thickness (Inch) (mm) | Core Diameter (Inch) | Armor Thickness (Mils) | Armor Overall Diameter (Inch) | Jacket Thickness (Mils) | Nominal Overall Diameter (Inch) | Approximate Net Weight (Lbs/M') | |
|---------------|------------|----------------------|-----------------------|----------------------------------|----------------------|------------------------|-------------------------------|-------------------------|---------------------------------|---------------------------------|------|
| S15-0031 | 14 | 3 | 3-#18 | 0.030 | 0.76 | 0.29 | 25 | 0.48 | 50 | 0.58 | 172 |
| S15-0041 | 14 | 4 | 2-#16 | 0.030 | .076 | 0.33 | 25 | 0.54 | 50 | 0.64 | 204 |
| S15-5411 | 14 | 5 | 1-#14 | 0.030 | 0.76 | 0.38 | 25 | 0.58 | 50 | 0.68 | 233 |
| S15-5412 | 14 | 7 | 1-#14 | 0.030 | 0.76 | 0.42 | 25 | 0.62 | 50 | 0.72 | 268 |
| S15-5413 | 14 | 9 | 1-#14 | 0.030 | 0.76 | 0.50 | 25 | 0.70 | 50 | 0.80 | 328 |
| S15-5414 | 14 | 12 | 1-#14 | 0.030 | 0.76 | 0.56 | 25 | 0.78 | 50 | 0.88 | 392 |
| S15-5415 | 14 | 19 | 1-#14 | 0.030 | 0.76 | 0.67 | 25 | 0.92 | 50 | 1.02 | 547 |
| S16-3741 | 14 | 37 | 1-#14 | 0.030 | 0.76 | 0.94 | 25 | 1.19 | 50 | 1.29 | 934 |
| S15-1031 | 12 | 3 | 3-#16 | 0.030 | 0.76 | 0.33 | 25 | 0.54 | 50 | 0.64 | 220 |
| S15-1041 | 12 | 4 | 3-#16 | 0.030 | 0.76 | 0.37 | 25 | 0.58 | 50 | 0.68 | 254 |
| S15-5416 | 12 | 5 | 1-#12 | 0.030 | 0.76 | 0.43 | 25 | 0.62 | 50 | 0.72 | 291 |
| S15-5417 | 12 | 7 | 1-#12 | 0.030 | 0.76 | 0.48 | 25 | 0.70 | 50 | 0.80 | 354 |
| S15-5418 | 12 | 9 | 1-#12 | 0.030 | 0.76 | 0.58 | 25 | 0.84 | 50 | 0.94 | 444 |
| S15-5419 | 12 | 12 | 1-#12 | 0.030 | 0.76 | 0.64 | 25 | 0.88 | 50 | 0.98 | 525 |
| S15-5420 | 12 | 19 | 1-#12 | 0.030 | 0.76 | 0.77 | 25 | 1.07 | 50 | 1.17 | 751 |
| S16-3745 | 12 | 37 | 1-#12 | 0.030 | 0.76 | 1.07 | 25 | 1.33 | 50 | 1.43 | 1293 |
| S15-2031 | 10 | 3 | 3-#14 | 0.030 | 0.76 | 0.38 | 25 | 0.58 | 50 | 0.68 | 280 |
| S15-2041 | 10 | 4 | 3-#14 | 0.030 | 0.76 | 0.43 | 25 | 0.62 | 50 | 0.72 | 330 |
| S15-5423 | 10 | 7 | 1-#10 | 0.030 | 0.76 | 0.55 | 25 | 0.78 | 50 | 0.88 | 479 |
| S15-5424 | 10 | 9 | 1-#10 | 0.030 | 0.76 | 0.66 | 25 | 0.92 | 50 | 1.02 | 601 |

Gardex® CC Composite

| Product Code* | Power # Conds. Size (AWG) | Control # Conds. Size (AWG) | Ground Wires Qty-Size | Insulation Thickness (Inch) (mm) | Core Diameter (Inch) | Armor Thickness (Mils) | Armor Overall Diameter (Inch) | Jacket Thickness (Mils) | Nominal Overall Diameter (Inch) | Approximate Net Weight (Lbs/M') | |
|---------------|---------------------------|-----------------------------|-----------------------|----------------------------------|----------------------|------------------------|-------------------------------|-------------------------|---------------------------------|---------------------------------|-----|
| S15-5126 | 3C#10 | 4C#12 | 1-#10 | 0.030 | 0.76 | .52 | 25 | .74 | 50 | .84 | 420 |
| S15-5127 | 3C#8 | 4C#12 | 1-#8 | .045/.030 | 1.14/0.76 | .66 | 25 | .92 | 50 | 1.02 | 562 |
| S15-5128 | 3C#6 | 4C#12 | 1-#8 | .045/.030 | 1.14/0.76 | .72 | 25 | .97 | 50 | 1.07 | 681 |
| S15-5130 | 3C#4 | 4C#12 | 1-#8 | .045/.030 | 1.14/0.76 | .78 | 25 | 1.07 | 50 | 1.17 | 861 |

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