

## Gardex<sup>®</sup> CC Armored Control Cable

XLPE Insulation  
Aluminum Armor  
PVC Outer Jacket

90°C\*, 600 Volt  
NEC Type MC  
UL Type CWCMC  
UL 1309/CSA C22.2 No. 245  
Marine Shipboard Cable  
Spec. RSS-8-001

### Scope

Gardex<sup>®</sup> 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<sup>®</sup> CC is flexible and its impervious armor prevents the entrance of water, gas, and corrosive elements into the electrical core. Gardex<sup>®</sup> 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 upon request.

### 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
- Suitable for low temperature applications
- All jackets have printed sequential footage markers for improved inventory control

### Performance Standards

- UL listed, NEC Type MC, UL 1569
- Approved for use in Class I, Division 2 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) for Marine Shipboard Cable
- Listed in API-14F
- Cross-linked polyethylene (XLPE) insulation is in accordance with ICEA S-95-658 and UL 44 for type XHHW-2
- ABS Recognized

### 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 K-2

#### 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.

# Gardex® CC

## Armored Control Cable

XLPE Insulation

Aluminum Armor, PVC Outer Jacket

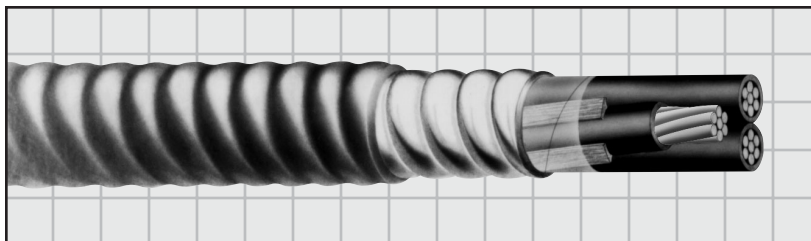
UL Listed, 90°C\*, 600 Volt

NEC Type MC, UL Type CWCMC

UL 1309/CSA 622.2 No. 245

Marine Shipboard Cable

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## Gardex® CC Control

| Product Code* | Size (AWG) | Number of Conductors | Insulation Thickness (Inch) (mm) | Core Diameter (Inch) | Armor Thickness (Mils) | Armor Overall Diameter (Inch) | Jacket Thickness (Mils) | Nominal Overall Diameter (Inch) (mm) | Approximate Net Weight (Lbs/M') |
|---------------|------------|----------------------|----------------------------------|----------------------|------------------------|-------------------------------|-------------------------|--------------------------------------|---------------------------------|
| S15-0020      | 14         | 2                    | .030 .76                         | .27                  | 25                     | .44                           | 50                      | .54 13.7                             | 135                             |
| S15-0030      | 14         | 3                    | .030 .76                         | .29                  | 25                     | .44                           | 50                      | .54 13.7                             | 149                             |
| S15-0040      | 14         | 4                    | .030 .76                         | .33                  | 25                     | .54                           | 50                      | .64 16.3                             | 188                             |
| S15-0050      | 14         | 5                    | .030 .76                         | .37                  | 25                     | .54                           | 50                      | .64 16.3                             | 205                             |
| S15-0070      | 14         | 7                    | .030 .76                         | .41                  | 25                     | .58                           | 50                      | .68 17.3                             | 250                             |
| S15-0090      | 14         | 9                    | .030 .76                         | .49                  | 25                     | .70                           | 50                      | .80 20.3                             | 316                             |
| S15-0120      | 14         | 12                   | .030 .76                         | .56                  | 25                     | .78                           | 50                      | .88 22.4                             | 380                             |
| S15-0160      | 14         | 16                   | .030 .76                         | .63                  | 25                     | .88                           | 50                      | .98 24.9                             | 470                             |
| S15-0190      | 14         | 19                   | .030 .76                         | .67                  | 25                     | .92                           | 50                      | 1.02 25.9                            | 534                             |
| S15-0250      | 14         | 25                   | .030 .76                         | .80                  | 25                     | 1.07                          | 50                      | 1.17 29.7                            | 685                             |
| S16-0370      | 14         | 37                   | .030 .76                         | .94                  | 25                     | 1.19                          | 50                      | 1.29 32.8                            | 916                             |
| S15-1020      | 12         | 2                    | .030 .76                         | .31                  | 25                     | .48                           | 50                      | .58 14.7                             | 165                             |
| S15-1030      | 12         | 3                    | .030 .76                         | .33                  | 25                     | .54                           | 50                      | .64 16.3                             | 196                             |
| S15-1040      | 12         | 4                    | .030 .76                         | .37                  | 25                     | .54                           | 50                      | .64 16.3                             | 223                             |
| S15-1050      | 12         | 5                    | .030 .76                         | .43                  | 25                     | .62                           | 50                      | .72 18.3                             | 269                             |
| S15-1070      | 12         | 7                    | .030 .76                         | .46                  | 25                     | .66                           | 50                      | .76 19.3                             | 325                             |
| S15-1090      | 12         | 9                    | .030 .76                         | .56                  | 25                     | .74                           | 50                      | .84 21.3                             | 404                             |
| S15-1120      | 12         | 12                   | .030 .76                         | .64                  | 25                     | .88                           | 50                      | .98 24.9                             | 504                             |
| S15-1160      | 12         | 16                   | .030 .76                         | .72                  | 25                     | .97                           | 50                      | 1.07 27.2                            | 634                             |
| S15-1190      | 12         | 19                   | .030 .76                         | .77                  | 25                     | 1.07                          | 50                      | 1.17 29.7                            | 728                             |
| S15-2020      | 10         | 2                    | .030 .76                         | .35                  | 25                     | .54                           | 50                      | .64 16.3                             | 205                             |
| S15-2030      | 10         | 3                    | .030 .76                         | .38                  | 25                     | .58                           | 50                      | .68 17.3                             | 245                             |
| S15-2040      | 10         | 4                    | .030 .76                         | .43                  | 25                     | .62                           | 50                      | .72 18.3                             | 300                             |
| S15-2050      | 10         | 5                    | .030 .76                         | .48                  | 25                     | .70                           | 50                      | .80 20.3                             | 345                             |
| S15-2070      | 10         | 7                    | .030 .76                         | .53                  | 25                     | .74                           | 50                      | .84 21.3                             | 440                             |
| S15-2090      | 10         | 9                    | .030 .76                         | .64                  | 25                     | .88                           | 50                      | .98 24.9                             | 550                             |
| S15-2120      | 10         | 12                   | .030 .76                         | .73                  | 25                     | 1.02                          | 50                      | 1.12 28.4                            | 690                             |

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