

Gardex® CC

Armored 5kV Power Cable

EPR Insulation
 Aluminum Armor
 PVC Outer Jacket
 UL Listed, 90°C*
 5000 Volt, Non-Shielded
 NEC Type MV 90
 and Type MC-HL
 UL Type CWCMC
 UL1309/CSA C22.2 No.245
 Marine Shipboard Cable
 Spec. RSS-8-014

Scope

Gardex® CC, 5000 volt, non-shielded power cable 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 corrosive 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.

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 MV 90 and Type MC, UL 1072
- UL listed, Type MC-HL, UL 2225 for use in Class I, Division 1 hazardous locations
- EPR insulation in accordance with ICEA S-96-659
- Cables pass the ICEA 70,000 BTU/hr and the 210,000 BTU/hr vertical tray flame tests
- 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.
- ABS Recognized
- Listed in API-14F

Construction

Conductor:

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

Stress Control:

Semi-conducting layer

Insulation:

Ethylene propylene rubber (EPR)

Circuit Identification:

Printed color designations, ICEA Method 3, Table E-2

Ground Wire:

Stranded, annealed copper per UL Subject 1072

Fillers:

(When required)

Binder Tape:

Helically applied

Armor:

Continuously welded and corrugated aluminum

Jacket:

Yellow, 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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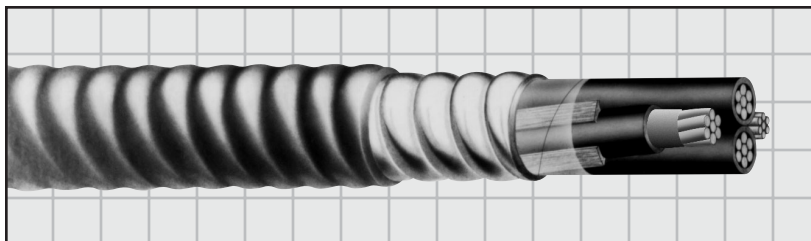
UL Listed

90°C*, 5000 Volt Non-Shielded

NEC Type MV-90 and Type MC-HL

UL Type CWCMC UL1309/CSA C22.2 No. 245

Spec. RSS-8-014



3 Conductor W/G

Product Code	Size (AWG/kcmil)	Insulation Thickness (Inch) (mm)	Ground Wire Size (Qty-Size)	Core Diameter (Inch)	Armor Thickness (Mils)	Armor Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter (Inch) (mm)	Approximate Net Weight (Lbs/M')
S16-5185	8	.090 2.29	3-12	.80	25	1.07	50	1.18 29.97	600
S16-5165	6	.090 2.29	3-10	.87	25	1.13	50	1.24 31.50	770
S16-5145	4	.090 2.29	3-10	.99	25	1.26	50	1.36 34.54	986
S16-5125	2	.090 2.29	3-10	1.12	25	1.46	50	1.57 39.88	1307
S16-5113	1	.090 2.29	1-4	1.20	25	1.46	50	1.57 39.88	1469
S16-5105	1/0	.090 2.29	3-8	1.28	25	1.64	60	1.76 44.70	1851
S16-5205	2/0	.090 2.29	3-8	1.40	25	1.71	60	1.83 46.48	2150
S16-5305	3/0	.090 2.29	3-6	1.51	32	1.87	60	2.00 50.80	2670
S16-5405	4/0	.090 2.29	3-6	1.62	32	2.02	60	2.15 54.61	3197
S16-5255	250	.090 2.29	3-6	1.73	32	2.12	60	2.25 57.20	3590
S16-5355	350	.090 2.29	3-6	1.94	32	2.35	75	2.50 63.50	4787
S16-5505	500	.090 2.29	3-5	2.23	32	2.71	75	2.86 72.64	6556

* Rated 90°C for normal operation in wet and dry locations, 140°C for emergency overload conditions, and 250°C for short circuit conditions.