CCW® Armored Power, 3/C VFD and 4/C
UL Type MC-HL, Silicone, 600 V, 90°C Dry/75°C Wet, Cable Tray Use, Fire-Resistant Sunlight-Resistant, Direct Burial, UL Marine Shipboard Cable, ABS CWCMC

Product Construction:
Conductor:
- Tinned annealed copper per ASTM B33, B8
- Class B compressed stranding per ASTM B8

Insulation:
- Ceramifiable silicone insulation per UL 44, listed RHH

Braid:
- Fiberglass braid over each conductor
- Color-coded per ICEA S-73-532, Method 7

Grounding Conductor:
- Class B stranded tinned annealed copper per ASTM B33 and B8
- Where specified, single or three split grounding wires are sized in accordance with NEC Table 250.122

Cable Assembly:
- Insulated conductors and grounding wire(s) are cabled together with non-hygroscopic fillers when required
- A binder tape, when required, is applied over the cabled core

CCW Armor:
- Impervious, continuously welded and corrugated aluminum alloy sheath per UL Standards 1569 and 2225
- CCW armor conductivity meets the grounding requirements of NEC Article 250

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:
- Fire-resistant CCW cables are used in critical safety systems where circuit integrity is required in the event of a fire
- Variable Frequency Drives: 3-conductor CCW armored cables with three (3) symmetrical grounding wires are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- CCW armored cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2 hazardous locations per NEC Articles 501, 502, 503 and 505
- For use as services, feeders and branch circuits for power, lighting, control, and signal circuits in accordance with NEC Articles 330 and 725
- Installed indoors or outdoors, wet or dry locations, directly buried, embedded in concrete, in a raceway, as aerial cable on a messenger, in cable trays, or as exposed runs secured to supports in accordance with NEC Article 330
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:
- 3-conductor CCW power cables with three grounding wires are recommended for use with pulse-width modulated AC drives
- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance

Features: (cont’d)
- Factory assembled and tested cable for use as an alternate to cable in conduit wiring systems
- Meets cold impact at -40°C
- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

Specifications:
Design Adherence:
- ICEA S-95-658/WC70 Standard for Non-Shielded Power Cable, 2 kV or Less
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 2225 Cables and Cable Fittings for Use in Hazardous Locations
- UL 1309 Marine Shipboard Cable
- CSA C22.2 No. 123 Metal Sheathed Cables
- CSA C22.2 No. 174 Cables and Cable Glands for Use in Hazardous Locations

Flame Tests:
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60331-21

Compliances:
- UL Type MC-HL, RHH, SUN RES, CT USE, DIR BUR, -40°C, UL File # E90496
- UL Listed Marine Shipboard, S100, UL File # E85994
- Fire-Resistant, 750°C for 3 Hours, IEC 60331-21
- American Bureau of Shipping (ABS) Listed for CWCMC
## CCW® Armored Power, 3/C VFD and 4/C

UL Type MC-HL, Silicone, 600 V, 90°C Dry/75°C Wet, Cable Tray Use, Fire-Resistant Sunlight-Resistant, Direct Burial, UL Marine Shipboard Cable, ABS CWCMC

### Table of Specifications

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>COND. SIZE (AWG/kcmil)</th>
<th>NO. OF COND.</th>
<th>INSULATION THICKNESS</th>
<th>BARE GROUND (AWG)</th>
<th>NOMINAL CORE O.D.</th>
<th>NOMINAL ARMOR O.D.</th>
<th>JACKET THICKNESS</th>
<th>NOMINAL OVERALL O.D.</th>
<th>CROSS-SECTIONAL AREA¹</th>
<th>APPROXIMATE NET WEIGHT</th>
<th>90°C AMPACITY @ 30°C AMBIENT²</th>
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Dimensions and weights are nominal; subject to industry tolerances.

¹ Cross-sectional area for cable tray fill is in accordance with NEC Section 392.22.
² Ampacities in accordance with NEC Article 310 and Table 310.15(B)(16).