

## CCW<sup>®</sup> Armored Control Without Grounding Conductor

UL Type MC, XLPE, 600 V, 90°C, Cable Tray Use, Sunlight-Resistant, Direct Burial  
UL Marine Shipboard Cable, ABS CWCMC



### Product Construction:

#### Conductor:

- Bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

#### Insulation:

- Cross-Linked Polyethylene (XLPE) insulation per ICEA S-73-532 and UL 44, Listed XHHW-2
- Color-coded per ICEA Method 1, Table E2, full-colored insulation with stripes
- Color-coded per CSA C22.2 No. 123 where applicable

#### Cable Assembly:

- Insulated conductors 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 1569
- 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
- Meets CSA Low Acid Gas requirements

### Applications:

- CCW armored Control cables offer an economical, rugged and reliable alternative to labor-intensive cable in conduit wiring methods
- For use in Class I and II, Division 2; Class III, Divisions 1 and 2; and Class I, Zone 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:

- CCW armor provides an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Factory assembled and tested cable for use as an alternative to cable in conduit wiring systems
- Meets cold impact at -40°C

### Features: (cont'd)

- 90°C continuous operating temperature, wet or dry
- 130°C emergency rating
- 250°C short circuit rating

### Specifications:

#### Design Adherence:

- ICEA S-73-532/WC-57 Standard for Control, Thermocouple Extension and Instrumentation Cables
- UL 44 Rubber Insulated Wires and Cables
- UL 1569 Metal Clad Cables
- UL 1309 Marine Shipboard Cable
- CSA C22.2 No. 123 Metal Sheathed Cables

#### Flame Tests:

- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- CSA FT4
- IEEE 1202 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEC 60332-3 Cat. A

#### Compliances:

- UL Type MC, XHHW-2, SUN RES, CT USE, DIR BUR, -40°C, UL File # E69797
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- CSA certified<sup>1</sup> Type RA90, XLPE, SR, FT4, and -40°C, CSA File # 7319

<sup>1</sup> Standard cables are also marked CSA Type RA90, except four (4) conductor cables which require a different color code, which may be special-ordered.

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CATALOG NUMBER	COND. SIZE (AWG)	NO. OF COND.	INSULATION THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA <sup>1</sup> (SQ. IN.)	APPROXIMATE NET WEIGHT		90°C AMPACITY @ 30°C AMBIENT <sup>2</sup>
			mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m	

## 14 AWG 7W (2.08 mm<sup>2</sup>) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01402000	14	2	30	0.76	0.28	7.1	0.49	12.4	50	1.27	0.60	15.2	0.29	144	214	15
9525.01403000	14	3	30	0.76	0.30	7.6	0.49	12.4	50	1.27	0.60	15.2	0.29	155	231	15
9525.01404000	14	4	30	0.76	0.33	8.4	0.53	13.5	50	1.27	0.64	16.3	0.33	183	273	15
9525.01405000	14	5	30	0.76	0.37	9.4	0.58	14.7	50	1.27	0.69	17.5	0.38	213	317	15
9525.01407000	14	7	30	0.76	0.41	10.4	0.62	15.7	50	1.27	0.73	18.5	0.42	257	383	15
9525.01409000	14	9	30	0.76	0.50	12.7	0.71	18.0	50	1.27	0.82	20.8	0.54	312	465	15
9525.01412000	14	12	30	0.76	0.57	14.5	0.80	20.3	50	1.27	0.91	23.1	0.66	386	575	12
9525.01419000	14	19	30	0.76	0.69	17.5	0.93	23.6	50	1.27	1.04	26.4	0.86	544	810	12
9525.01437000	14	37	30	0.76	0.96	24.4	1.24	31.5	50	1.27	1.35	34.3	1.45	959	1,427	10

## 12 AWG 7W (3.31 mm<sup>2</sup>) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01202000	12	2	30	0.76	0.31	7.9	0.53	13.5	50	1.27	0.64	16.3	0.33	166	247	20
9525.01203000	12	3	30	0.76	0.34	8.6	0.53	13.5	50	1.27	0.64	16.3	0.33	192	285	20
9525.01204000	12	4	30	0.76	0.38	9.7	0.58	14.7	50	1.27	0.69	17.5	0.38	229	341	20
9525.01205000	12	5	30	0.76	0.42	10.7	0.62	15.7	50	1.27	0.73	18.5	0.42	266	395	20
9525.01207000	12	7	30	0.76	0.47	11.9	0.67	17.0	50	1.27	0.78	19.8	0.48	328	489	20
9525.01209000	12	9	30	0.76	0.56	14.2	0.80	20.3	50	1.27	0.91	23.1	0.66	410	611	20
9525.01212000	12	12	30	0.76	0.65	16.5	0.89	22.6	50	1.27	0.99	25.1	0.78	510	759	15
9525.01219000	12	19	30	0.76	0.78	19.8	1.02	25.9	50	1.27	1.13	28.7	1.02	731	1,087	15
9525.01237000	12	37	30	0.76	1.08	27.4	1.37	34.8	50	1.27	1.48	37.6	1.74	1,318	1,962	12

## 10 AWG 7W (5.26 mm<sup>2</sup>) MULTI-CONDUCTOR CONTROL CABLE WITHOUT GROUNDING CONDUCTOR

9525.01002000	10	2	30	0.76	0.36	9.1	0.58	14.7	50	1.27	0.69	17.5	0.38	205	305	30
9525.01003000	10	3	30	0.76	0.39	9.9	0.58	14.7	50	1.27	0.69	17.5	0.38	241	359	30
9525.01004000	10	4	30	0.76	0.44	11.2	0.67	17.0	50	1.27	0.78	19.8	0.48	301	448	30
9525.01005000	10	5	30	0.76	0.48	12.2	0.71	18.0	50	1.27	0.82	20.8	0.54	353	525	30
9525.01007000	10	7	30	0.76	0.54	13.7	0.75	19.1	50	1.27	0.86	21.8	0.59	442	658	28
9525.01009000	10	9	30	0.76	0.65	16.5	0.89	22.6	50	1.27	1.00	25.4	0.80	551	820	28
9525.01012000	10	12	30	0.76	0.74	18.8	0.97	24.6	50	1.27	1.08	27.4	0.93	693	1,032	20

Dimensions and weights are nominal; subject to industry tolerances.

<sup>1</sup> Cross-sectional area for cable tray fill is in accordance with NEC<sup>®</sup> Section 392.22.

<sup>2</sup> Ampacities in accordance with NEC<sup>®</sup> Article 310 and Table 310.15(B)(16).

Note: Standard cables with up to and including six (6) conductors are also marked CSA Type RA90. All others are special order.



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