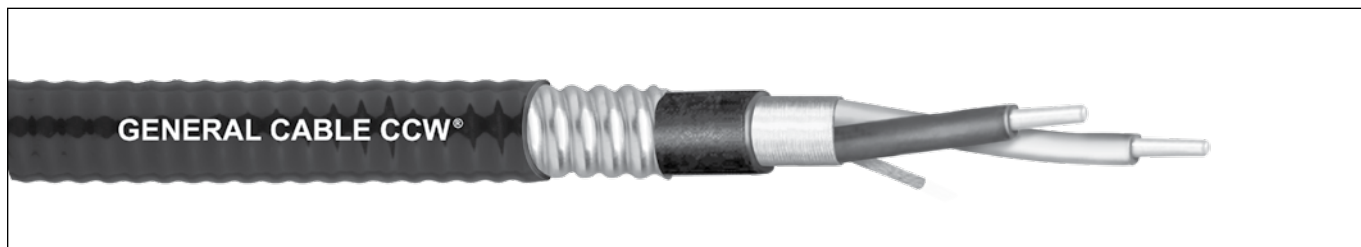


CCW® Armored Thermocouple, Single Pair, Overall Shield

UL Type ITC/PLTC, PVC, 105°C, Sunlight-Resistant, Direct Burial

UL Marine Shipboard Cable, ABS CWCMC



Product Construction:

Conductor:

- 16 AWG solid alloy wire per ANSI MC 96.1

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC), rated 105°C per UL Standards 13 and 2250
- Color-coded per ANSI

Pair Assembly:

- Insulated conductors are cabled together with a left-hand lay

Overall Shield:

- Flexfoil® aluminum/polyester tape shield providing 100% coverage
- Stranded tinned copper drain wire, same size as insulated conductors

Inner Jacket:

- Flame-retardant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250, black
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C
- Nylon rip cord to facilitate jacket removal

CCW Armor:

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

Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) per UL Standards 13 and 2250
- ANSI color-coded
- Low temperature performance meets ASTM D746 brittleness temperature at or below -40°C

Applications:

- CCW armored Thermocouple Extension cables provide superior protection and reliability against physical damage for use in instrumentation and process control applications requiring ITC or PLTC wiring methods
- For use as Power Limited Tray Cable on circuits rated 150 V or less and 5 amps or less in Class 2 or Class 3 circuits in accordance with NEC Article 725
- For use as Instrumentation Tray Cable on circuits rated 150 V or less and 5 amps or less in accordance with NEC Article 727
- Installed indoors or outdoors, in wet or dry locations, in a raceway, as aerial cable on a messenger, in cable trays, or for direct burial
- Recognized for use on fixed or floating offshore petroleum facilities as recommended by the American Petroleum Institute

Features:

- CCW armor provides superior mechanical protection and an impervious barrier to moisture, gas and liquids
- CCW armor provides EMI shielding performance
- Meets cold impact at -40°C

Specifications:

Design Adherence:

- UL 13 Power-Limited Circuit Cables
- UL 2250 Instrumentation Tray Cable
- UL 1569 Metal Clad Cables
- UL 1309/CSA C22.2 No. 245 Marine Shipboard Cable

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 PLTC, SUN RES, DIR BUR, -40°C, UL File # E36118
- UL Type ITC, UL File # E177408
- UL Listed Marine Shipboard, UL File # E85994
- American Bureau of Shipping (ABS) Listed for CWCMC
- RoHS Compliant

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CATALOG NUMBER	WIRE TYPE/ SIZE (AWG)	NO. OF PAIRS	INSULATION THICKNESS		INNER JACKET THICKNESS		NOMINAL CORE O.D.		NOMINAL ARMOR O.D.		JACKET THICKNESS		NOMINAL OVERALL O.D.		CROSS-SECTIONAL AREA ¹ SQ. IN.	APPROXIMATE NET WEIGHT	
			mils	mm	mils	mm	INCHES	mm	INCHES	mm	mils	mm	INCHES	mm		LBS/1000 FT	kg/1000 m
9025.16010001	EX / 16	1	20	0.51	54	1.37	0.30	7.6	0.47	11.9	50	1.27	0.58	14.7	0.27	160	238
9025.16010002	JX / 16	1	20	0.51	54	1.37	0.30	7.6	0.47	11.9	50	1.27	0.58	14.7	0.27	159	237
9025.16010003	KX / 16	1	20	0.51	54	1.37	0.30	7.6	0.47	11.9	50	1.27	0.58	14.7	0.27	160	238
9025.16010004	TX / 16	1	20	0.51	54	1.37	0.30	7.6	0.47	11.9	50	1.27	0.58	14.7	0.27	161	240

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.

ANSI MC 96.1 CONDUCTOR ALLOY AND COLOR CODE								
COND. TYPE	POSITIVE WIRE		NEGATIVE WIRE		OUTER JACKET	TEMP. RANGE	LIMITS OF ERROR	NOM. LOOP RESISTANCE PER 100 FT @ 20°C
	ALLOY	COLOR	ALLOY	COLOR				
EX	Chromel	Purple	Constantan	Red	Purple	0°C To +200°C	+/- 1.7°C	27.8 Ohms
JX	Iron	White	Constantan	Red	Black	0°C To +200°C	+/- 2.2°C	13.9 Ohms
KX	Chromel	Yellow	Alumel	Red	Yellow	0°C To +200°C	+/- 2.2°C	23.6 Ohms
TX	Copper	Blue	Constantan	Red	Blue	-60°C To +100°C	+/- 1.0°C	12.0 Ohms

