

DuraSheath®

EPR/XL-CPE, Medium-Voltage Power, Nonshielded 2400 V
UL Type MV-902400 V, UL Type MV-90



Product Construction

Conductor:

- 8 AWG thru 1000 kcmil annealed bare copper compact Class B strand

Extruded Strand Shield (ESS):

- Extruded thermoset semi-conducting stress-control layer over conductor

Insulation:

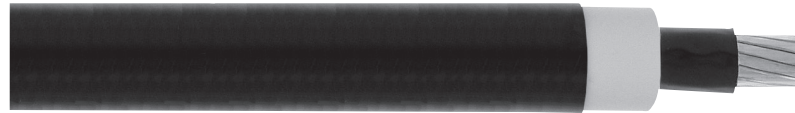
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black jacket material

Jacket:

- Lead-Free Cross-linked Chlorinated Polyethylene (XL-CPE)

Applications:

- Proven record of reliable performance through extensive use in these applications: pulp and paper mills, petrochemical plants, sewage treatment facilities, water treatment plants, steel mills, textile mills, utility power generating stations, scrubbers and other environmental protection systems, railroad and mining facilities
- For use in industrial and utility applications where ease of installation is a major concern because of limited space and exposure to personnel is minimal



Applications (cont'd):

- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, conduit, open tray and underground duct installations

Features:

- Rated at 90°C
- Excellent heat, moisture and sunlight resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical- and sunlight-resistant
- Simplification of splicing and terminating by elimination of need to handle cable shield
- Extra-tough, mechanically rugged composite insulation and jacket construction
- Easy Glider® low friction technology for easy cable pulling
- Meets cold bend test at -35°C

Features (cont'd):

- 90°C rating for continuous operation
- 130°C rating for emergency overload conditions
- 250°C rating for short circuit conditions

Compliances:

- National Electric Code (NEC)
- ICEA S-96-659/NEMA WC71
- UL 1072
- UL listed as Type MV-90 for use in accordance with NEC, UL File # E518856
- Sizes 1/0 AWG and larger are listed and marked "FOR CT USE" in accordance with NEC and also meet IEEE 383 (70,000 BTU/hr)
- Listed "oil-resistant I"
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	NOMINAL CONDUCTOR DIAMETER		NOMINAL EXTRUDED STRAND SHIELD DIAMETER		NOMINAL INSULATION THICKNESS		NOMINAL INSULATION DIAMETER		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY		
												LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	TRAY (3)
		IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	IN
2400 V, UL TYPE MV-90																		
14901.410805*	8	0.13	3.30	0.16	4.06	0.125	3.18	0.42	10.67	0.59	14.99	51	76	199	296	55	64	–
14901.410605	6	0.17	4.32	0.19	4.83	0.125	3.18	0.45	11.43	0.62	15.75	81	121	243	362	75	85	–
14901.410405	4	0.21	5.33	0.24	6.10	0.125	3.18	0.50	12.70	0.67	17.02	129	192	303	451	97	110	–
14901.410205	2	0.27	6.86	0.29	7.37	0.125	3.18	0.55	13.97	0.72	18.29	205	305	400	595	130	145	–
14901.410105*	1	0.30	7.62	0.32	8.13	0.125	3.18	0.59	14.99	0.76	19.30	259	385	471	701	155	170	–
14901.415105	1/0	0.34	8.64	0.36	9.14	0.125	3.18	0.62	15.75	0.79	20.07	326	485	543	808	180	195	195
14901.415205	2/0	0.38	9.65	0.40	10.16	0.125	3.18	0.66	16.76	0.83	21.08	411	612	645	960	205	220	225
14901.415305*	3/0	0.42	10.67	0.45	11.43	0.125	3.18	0.71	18.03	0.92	23.37	518	771	802	1194	240	250	259
14901.415405	4/0	0.48	12.19	0.50	12.70	0.125	3.18	0.76	19.30	0.96	24.38	653	972	948	1411	280	290	300
14901.416005	250	0.52	13.21	0.54	13.72	0.14	3.56	0.83	21.08	1.07	27.18	772	1149	1153	1716	315	320	334
14901.416205	350	0.62	15.75	0.63	16.00	0.14	3.56	0.93	23.62	1.16	29.46	1080	1607	1485	2210	385	385	413
14901.416505	500	0.74	18.80	0.76	19.30	0.14	3.56	1.05	26.67	1.28	32.51	1544	2298	2000	2976	475	470	521
14901.417005	750	0.91	23.11	0.93	23.62	0.155	3.94	1.25	31.75	1.52	38.61	2316	3447	2920	4345	600	585	675
14901.417505*	1000	1.06	26.92	1.07	27.18	0.155	3.94	1.40	35.56	1.66	42.16	3086	4593	3815	5677	690	670	806

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

(1) Ampacities are in accordance with Table 315.60(C)(7) of the 2023 NEC for triplexed or three single conductor copper cables in isolated conduit in air based on a conductor temperature of 90°C (194°F), and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 315.60(C)(11) of the 2023 NEC for triplexed or three single conductor copper cables in underground ducts (three conductors per duct), based on a conductor temperature of 90°C (194°F), and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 315.60(D)(3) Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger installed with no spacing between cables in an uncovered tray in accordance with Section 392.80(B)(2) of the 2023 NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 315.60(C)(3), operating temperature of 90°C (194°F).

Note: a) Sizes smaller than 1/0 AWG do not include "FOR CT USE".

b) The NESC Lightning bolt symbol is on all Uniblend® constructions.