



CONSTRUCTION

- 1- Conductor:** Compact class B stranded soft annealed bare copper as per ASTM B-496.
- 2- Conductor shield:** Extruded thermoset semi-conducting stress control layer.
- 3- Insulation:** Tree-retardant cross-linked polyethylene (TR-XLPE).
- 4- Insulation shield:** Extruded thermoset strippable semi-conducting insulation shield.
- 5- Copper wires shield:** one-third neutral concentric round annealed bare copper wires helically applied over the insulation shield.
- 6- Jacket:** black flame retardant, sunlight and oil resistant I polyvinyl chloride (PVC).

FEATURES AND APPLICATIONS

- INDULINK type MV-90 is suitable for use in wet or dry locations, in open air (exposed to sunlight), raceways, troughs, ducts and direct burial.
- Typical installations include feeder or branch circuits in generating stations, industrial and commercial installations.
- Rated at maximum operating temperature of 90 °C for normal operation, 130 °C for emergency overload and 250 °C for short-circuit conditions.
- Superior current carrying capacity.
- True triple and dry curing extrusion system.
- Excellent flexibility.
- Excellent corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-90 under file E-500191.

STANDARDS

ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire.

ASTM B-496 - Standard Specification for Compact Round Concentric-Lay-Stranded Copper Conductors.

UL 1072 - Medium-Voltage Power Cables.

ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribution of Electric Energy.

COPPER CONDUCTOR, 25 kV 100 % INSULATION LEVEL, 260 MILS

PRODUCT CODE	COND. SIZE (AWG or kcmil)	NOMINAL CONDUCTOR DIAMETER (inches)	NOMINAL INSULATION DIAM. (inches)	NOMINAL INSULATION SHIELD DIAM. (inches)	NOMINAL DIAMETER OVER JACKET (inches)	APPROX. WEIGHT (lb/kft)		AMPACITY (A)		CONDUIT SIZE (inches)
						COPPER	TOTAL	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
821801048	1	0.30	0.874	0.937	1.229	815	815	170	175	3 ½
821801049	1/0	0.33	0.911	0.974	1.266	1032	933	195	200	3 ½
821801050	2/0	0.37	0.950	1.013	1.306	1291	1071	225	230	4
821801051	3/0	0.42	0.997	1.060	1.352	1630	1249	260	260	4
821801052	4/0	0.47	1.051	1.114	1.406	2066	1474	295	295	4
821801053	250	0.52	1.094	1.157	1.449	2433	1662	330	325	5
821801054	350	0.61	1.189	1.252	1.544	3390	2141	395	390	5
821801057	500	0.73	1.311	1.374	1.826	4868	3014	480	465	5
821801060	750	0.90	1.476	1.539	1.992	7359	4225	585	565	6
821801062	1000	1.06	1.631	1.694	2.147	9752	5390	675	640	6

COPPER CONDUCTOR, 25 kV 133 % INSULATION LEVEL, 320 MILS

PRODUCT CODE	COND. SIZE (AWG or kcmil)	NOMINAL CONDUCTOR DIAMETER (inches)	NOMINAL INSULATION DIAM. (inches)	NOMINAL INSULATION SHIELD DIAM. (inches)	NOMINAL DIAMETER OVER JACKET (inches)	APPROX. WEIGHT (lb/kft)		AMPACITY (A)		CONDUIT SIZE (inches)
						COPPER	TOTAL	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
823501048	1	0.30	0.994	1.057	1.349	815	915	170	175	4
823501049	1/0	0.33	1.031	1.094	1.387	1032	1036	195	200	4
823501050	2/0	0.37	1.071	1.134	1.426	1291	1177	225	230	4
823501051	3/0	0.42	1.117	1.180	1.472	1630	1358	260	260	5
823501052	4/0	0.47	1.171	1.234	1.526	2066	1587	295	295	5
823501053	250	0.52	1.215	1.278	1.570	2433	1778	330	325	5
823501054	350	0.61	1.309	1.372	1.724	3390	2330	395	390	5
823501057	500	0.73	1.431	1.494	1.947	4868	3158	480	465	6
823501060	750	0.90	1.596	1.659	2.112	7359	4382	585	565	6
823501062	1000	1.06	1.752	1.815	2.268	9752	5559	675	640	7

(1) Ampacities are in accordance with table 310.60(C)(73) of the NEC for insulated triplexed or three single-conductor copper cables in isolated conduit in air based on conductor temperatures of 90°C (194°F) and ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with table 310.60(C)(77) of the NEC for three single-insulated copper conductors in underground electrical ducts (three conductors per electrical duct) based on ambient earth temperature of 20°C (68°F) electrical duct arrangement in accordance with figure 31060 detail 1 100 percent load factor thermal resistance (rho) of 90 conductor temperatures of 90°C (194°F).

Jam ratio has not been considered and should be checked to avoid possible jamming.

Values are nominal and subject to manufacturing tolerances.