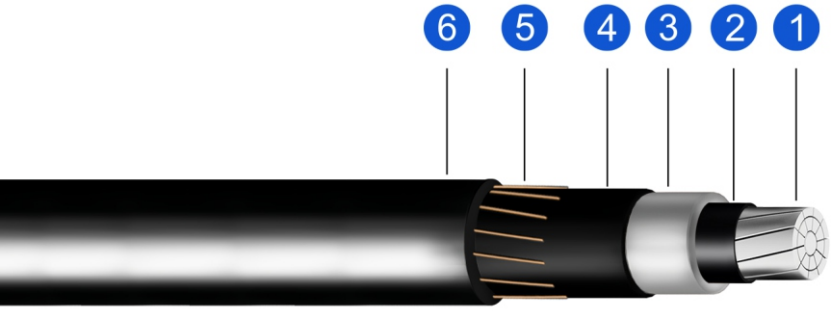
INDULINK AL TYPE MV-90 15 kV 100% and 133% I.L.

AL/XLPE/WIRE SCREEN/PVC JACKET POWER CABLE



CONSTRUCTION

1- Conductor: Class B compact stranded 1350 aluminum as per ASTM B-400.
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 AL 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 corona and moisture resistance.
- Cold bend tested at -35 °C.
- NEC guidelines must be followed for proper application.
- UL listed as MV-105 under file E-500191.

STANDARDS

ASTM B-400 - Standard Specification for Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors
ASTM B-3 - Standard Specification for Soft or Annealed Copper Wire
UL 1072 - Medium-Voltage Power Cables
ICEA S-93-639 - 5-46 kV Shielded Power Cable for use in the Transmission and Distribubtion of Electric Energy

ALUMINUM CONDUCTOR, 15 kV 100 % INSULATION LEVEL, 175 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)
						ALUMINUM	COPPER	TOTAL	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
841301047	2	0.27	0.682	0.745	1.037	140	196	1140	115	120	3
841301048	1	0.30	0.714	0.777	1.069	176	196	1216	130	135	3
841301049	1/0	0.33	0.751	0.814	1.106	223	196	1309	150	155	3
841301050	2/0	0.37	0.791	0.854	1.146	279	229	1443	175	175	3 ½
841301051	3/0	0.42	0.837	0.900	1.192	354	295	1633	200	200	3 ½
841301052	4/0	0.47	0.891	0.954	1.246	445	360	1849	230	230	3 ½
841301053	250	0.52	0.934	0.997	1.289	527	426	2043	255	250	4
841301054	350	0.61	1.029	1.092	1.384	736	589	2515	310	305	4
841301057	500	0.73	1.151	1.214	1.506	1061	819	3194	385	370	5
841301060	750	0.90	1.316	1.379	1.832	1592	1252	4755	485	455	6
841301062	1000	1.06	1.472	1.535	1.987	2133	1670	5898	565	525	6

ALUMINUM CONDUCTOR, 15 kV 133 % INSULATION LEVEL, 220 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)
						ALUMINUM	COPPER	TOTAL	CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
843001047	2	0.27	0.772	0.835	1.159	140	196	1289	115	120	3 ½
843001048	1	0.30	0.804	0.867	1.196	176	196	1369	130	135	3 ½
843001049	1/0	0.33	0.841	0.904	1.235	223	196	1467	150	155	3 ½
843001050	2/0	0.37	0.880	0.943	1.282	279	229	1606	175	175	3 ½
843001051	3/0	0.42	0.927	0.990	1.336	354	295	1802	200	200	3 ½
843001052	4/0	0.47	0.981	1.044	1.379	445	360	2025	230	230	4
843001053	250	0.52	1.024	1.087	1.474	527	426	2225	255	250	4
843001054	350	0.61	1.119	1.181	1.596	736	589	2708	310	305	5
843001057	500	0.73	1.241	1.304	1.922	1061	819	3403	385	370	5
843001060	750	0.90	1.406	1.469	2.077	1592	1252	5008	485	455	6
843001062	1000	1.06	1.561	1.624	1.159	2133	1670	6172	565	525	6

(1) Ampacities are in accordance with table 310.60(C)(74) of the NEC for insulated triplexed or three single-conductor aluminum 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)(78) of the NEC for three single-insulated aluminum 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.