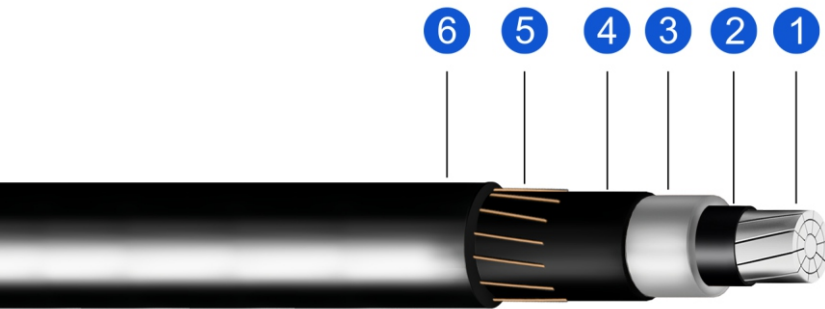




CONSTRUCTION

- 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-105 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 105 °C for normal operation, 140 °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 Distribution of Electric Energy

ALUMINUM CONDUCTOR, 5 kV 100% INSULATION LEVEL, 90 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)	
832301045	4	0.21	0.469	0.531	0.794	88	196	750	85	93	3
832301047	2	0.27	0.522	0.585	0.878	140	196	903	115	125	3
832301048	1	0.30	0.554	0.617	0.909	176	196	971	135	140	3
832301049	1/0	0.33	0.591	0.654	0.946	223	196	1056	155	160	3
832301050	2/0	0.37	0.631	0.694	0.986	279	229	1181	175	185	3
832301051	3/0	0.42	0.677	0.740	1.032	354	295	1361	210	210	3
832301052	4/0	0.47	0.731	0.794	1.086	445	360	1564	240	245	3 ½
832301053	250	0.52	0.774	0.837	1.130	527	426	1748	280	270	3 ½
832301054	350	0.61	0.869	0.932	1.224	736	589	2198	340	325	3 ½
832301057	500	0.73	0.991	1.054	1.346	1061	819	2849	425	400	4
832301060	750	0.90	1.156	1.219	1.612	1592	1252	4143	545	505	5
832301062	1000	1.06	1.312	1.375	1.828	2133	1670	5439	645	590	6

ALUMINUM CONDUCTOR, 5 kV 133% INSULATION LEVEL, 115 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)	
834001045	4	0.21	0.489	0.552	0.844	88	196	823	85	93	3
834001047	2	0.27	0.543	0.606	0.898	140	196	931	115	125	3
834001048	1	0.30	0.574	0.637	0.930	176	196	1001	135	140	3
834001049	1/0	0.33	0.612	0.675	0.967	223	196	1087	155	160	3
834001050	2/0	0.37	0.651	0.714	1.006	279	229	1213	175	185	3
834001051	3/0	0.42	0.698	0.761	1.053	354	295	1394	210	210	3
834001052	4/0	0.47	0.752	0.815	1.107	445	360	1599	240	245	3 ½
834001053	250	0.52	0.795	0.858	1.150	527	426	1784	280	270	3 ½
834001054	350	0.61	0.889	0.952	1.244	736	589	2237	340	325	4
834001057	500	0.73	1.011	1.074	1.367	1061	819	2891	425	400	4
834001060	750	0.90	1.177	1.240	1.633	1592	1252	4193	545	505	5
834001062	1000	1.06	1.332	1.395	1.848	2133	1670	5496	645	590	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 105°C (221°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 105°C (221°F).

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

Values are nominal and subject to manufacturing tolerances.