



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB 35KV Class B Compact Stranded 8000 series Aluminium Alloy Conductor EPR Insulated (Lead free), tape shielded, PVC jacket Single core MV cable as per UL 1072 is suitable to use for transmission and distribution of electrical energy. This cable may be used in wet and dry areas, conduits, ducts, troughs, trays, direct burial for power supply to wide network.

CHARACTERISTICS

Voltage Rating

Nominal Voltage: 35kV AC

Operation Temperature

Operating temperature: -35°C To 105°C

Emergency Overload Temperature: 140°C

Max. Short Circuit Temperature: 250°C

CONSTRUCTION

- Conductor: Class B Compact Stranded 8000 series Aluminium Alloy Conductor as per ASTM B800 and ASTM B836
- Conductor Screen: Extruded Semi-conductive compound
- Insulation: Extruded EPR Compound, 100% insulation level
- Insulation Screen: Extruded Semi-conductive compound
- Metallic Insulation Screen: Helically applied copper tape with 25% overlap
- Outer Sheath: Extruded Polyvinyl Chloride, Colour: Black

Bending Radius:

16 x overall diameter of cable

Voltage Rating (kV AC)	High Voltage Test (kV AC)	2-2000 (AWG or kcmil)
35	69	

OUTSTANDING FEATURES

- Flame retardant
- High life
- Sunlight resistant
- Corona resistant
- Moisture resistant

STANDARD FOLLOWS

- ASTM B800 8000 series Aluminium alloy wire
- ASTM B836 Compact Round Stranded Aluminium Conductor
- ICEA S-97-682 Utility and ICEA S-93-639 Shielded power cable rated 5 through 46 KV
- UL 1072 Medium Voltage power cable
- UL 1685 / FT4 Vertical Tray fire propagation and smoke release (1/0 AWG and larger)
- IEEE 1202 Vertical tray flame test (1/0 AWG and larger)
- CSA C68.10 Shielded power cable for commercial and industrial application, 5-46 KV
- UL 2556 Wire and Cable test method

COMPLIANCE

- | | |
|-------------------------|-----------|
| Conductor resistance | UL 1581 |
| Insulation resistance | UL 1072 |
| Vertical Tray Flame/FT4 | UL 1685 |
| Smoke Release | UL 1685 |
| Flame Test | IEEE 1202 |

OUR ACCREDITATIONS



APPROVAL



POLY CAB 35KV ALUMINIUM UL 1072 EPR 100% MV Cable, EPR 100% LEVEL

POLY CAB
IDEAS. CONNECTED.

Dimensional and Electrical Characteristics:

CONDUCTOR SIZE	NO OF STRANDS	NOMINAL INSULATION THICKNESS	NOMINAL OVERALL DIAMETER (APPROX)	APPROX WEIGHT	MAX CONDUCTOR DC RESISTANCE AT 20°C	*AMPACITY IN AIR at 40°C	**AMPACITY IN DUCT at 20°C	
AWG/kcmil	Nos.	mil	mm	mil	kg/km	ohm/1000ft	Amps	Amps
1/0	19	220	26.50	1043	848	0.168	225	165
2/0	19	220	27.63	1088	932	0.133	260	190
3/0	19	220	28.71	1130	1017	0.106	300	215
4/0	19	220	30.01	1181	1126	0.084	350	245
250	37	220	31.32	1233	1233	0.071	385	270
350	37	220	33.71	1327	1461	0.051	480	330
500	37	220	36.74	1446	1783	0.035	600	400
750	61	220	42.59	1677	2465	0.024	780	490
1000	61	220	46.08	1814	2954	0.018	940	565
1250	91	220	49.45	1947	3458	0.014	1080	-
1500	91	220	54.73	2155	4023	0.012	1215	-

#Above values are approximate and subject to standard manufacturing tolerance

* Ampacities are based on Table 310.60(C)(70) of 2014 National Electrical Code (where ambient air temperature is 40°C).

** Ampacities are based on Table 310.60(C)(78) detail 1. Of 2014 National Electrical Code (where Ambient earth temperature is 20°C and earth thermal resistivity (RHO) is 90).