



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB 15KV 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: 15kV 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)	Partial Discharge Extinction level (kV AC)	
2-1000 (AWG or kcmil)	1001-2000 (AWG or kcmil)	100% Insulation Level	
15	35	44	11

## 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 15KV 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	175	24.96	983	824	0.168	225	165
2/0	19	175	26.09	1027	909	0.133	260	190
3/0	19	175	27.17	1070	995	0.106	300	215
4/0	19	175	28.47	1121	1105	0.084	350	245
250	37	175	29.58	1165	1202	0.071	385	270
350	37	175	31.98	1259	1432	0.051	480	330
500	37	175	35	1378	1756	0.035	600	400
750	61	175	39.26	1546	2271	0.024	780	490
1000	61	175	44.14	1738	2909	0.018	940	565
1250	91	220	49.58	1952	3630	0.014	1080	-
1500	91	220	52.35	2061	4102	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).