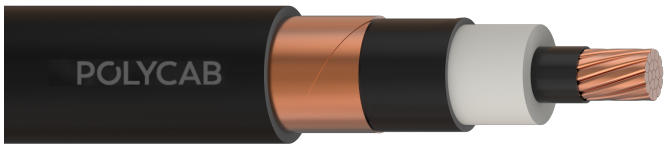
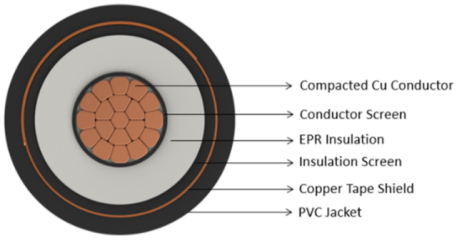
POLYCAB 15KV COPPER UL 1072 EPR 100% MV Cable, EPR 100% LEVEL





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 15KV Annealed Bare Copper 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: Circular Class B Compressed Copper conductor as per ASTM B3 and B8
- 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 B3 Soft or Annealed Copper Conductor
- ASTM B8 Concentric-Lay-Stranded Copper 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

LISTED

Document No.: 00321.Rev No.: 00 Date: 03-01-2024 / We reserve the rights to make technical changes.

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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	25.71	1012	1189	0.1022	290	215
2/0	19	175	26.92	1060	1373	0.0811	335	245
3/0	19	175	28.08	1106	1565	0.0643	385	275
4/0	19	175	29.49	1161	1817	0.0510	445	315
250	37	175	30.68	1208	2042	0.0432	495	345
350	37	175	33.26	1309	2597	0.0308	610	415
500	37	175	36.52	1438	3407	0.0216	765	500
750	61	175	41.11	1618	4744	0.0144	990	610
1000	61	175	46.26	1821	6188	0.0108	1185	690
1250	91	220	51.95	2045	7741	0.0086	1350	-
1500	91	220	54.93	2163	9012	0.0072	1500	-

* Ampacities are based on Table 310.60(C)(69) of 2014 National Electrical Code (where ambient air temperature is 40°C).

** Ampacities are based on Table 310.60(C)(77) detail 1. Of 2014 National Electrical Code (where Ambient earth temperature is 20°C and earth thermal resistivity (RHO) is 90).