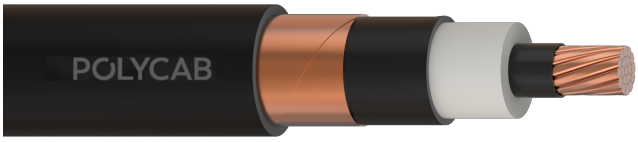
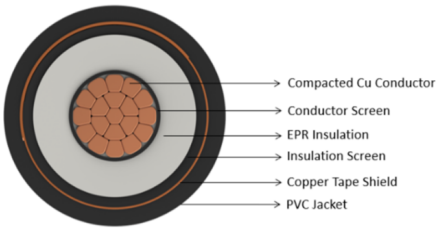
POLYCAB 15KV COPPER UL 1072 EPR 133% MV - 105, EPR 133% LEVEL





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, 133% 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)	133% Insulation Level
15	44	44	15

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
• Flame Test	IEEE 1202

OUR ACCREDITATIONS

APPROVAL

LISTED

Document No.: 00323.Rev No.: 00 Date: 03-01-2024 / We reserve the rights to make technical changes.

POLYCAB 15KV COPPER UL 1072 EPR 133%
MV - 105, EPR 133% LEVEL

POLYCAB
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	27.97	1101	1323	0.1022	290	215
2/0	19	220	29.18	1149	1512	0.0811	335	245
3/0	19	220	30.34	1195	1709	0.0643	385	275
4/0	19	220	31.75	1250	1968	0.0510	445	315
250	37	220	32.94	1297	2198	0.0432	495	345
350	37	220	35.52	1398	2765	0.0308	610	415
500	37	220	38.78	1527	3589	0.0216	765	500
750	61	220	44.77	1763	5108	0.0144	990	610
1000	61	220	48.52	1910	6416	0.0108	1185	690
1250	91	220	51.95	2045	7741	0.0086	1350	-
1500	91	220	54.93	2163	9012	0.0072	1500	-

Note: The above data is approximate and subject to standard manufacturing tolerance.

* 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).