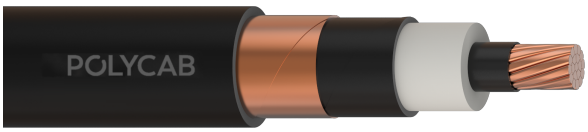
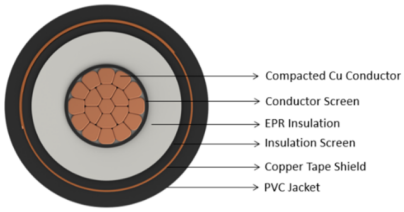
POLYCAB 35KV COPPER UL 1072 EPR 100% MV Cable, EPR 100% LEVEL





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 35KV 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: 35kV 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) 2-2000 (AWG or kcmil)
35	69

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

POLYCAB 35KV COPPER UL 1072 EPR 100% MV Cable, EPR 100% 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	345	34.33	1351	1754	0.1022	290	215
2/0	19	345	35.54	1399	1958	0.0811	330	245
3/0	19	345	36.70	1445	2170	0.0643	380	275
4/0	19	345	38.11	1500	2446	0.0510	445	315
250	37	345	39.30	1547	2691	0.0432	490	345
350	37	345	41.88	1649	3291	0.0308	605	415
500	37	345	46.54	1832	4325	0.0216	755	500
750	61	345	51.13	2013	5757	0.0144	970	610
1000	61	345	54.88	2161	7112	0.0108	1160	690
1250	91	345	58.31	2296	8480	0.0086	1320	-
1500	91	345	61.29	2413	9788	0.0072	1465	-

#Above values are 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).