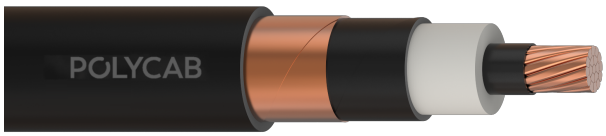
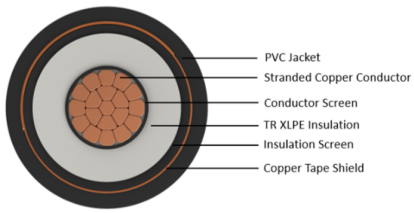
POLYCAB 35KV COPPER UL 1072 TRXLPE 100% MV Cable, TRXLPE 100% LEVEL





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 35KV Annealed Bare Copper Conductor TR-XLPE 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 Compressed Copper conductor as per ASTM B3 and B8
- Conductor Screen: Extruded Semi-conductive compound
- Insulation: Extruded TR-XLPE 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
- Treeing 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 TRXLPE 100% MV Cable, TRXLPE 100% LEVEL

POLYCAB
IDEAS. CONNECTED.

Dimensional and Electrical Properties:

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	33.53	1320	1575	0.1000	290	215
2/0	19	345	34.74	1368	1770	0.0795	330	245
3/0	19	345	35.90	1413	1972	0.0630	380	275
4/0	19	345	37.31	1469	2238	0.0500	445	315
250	37	345	38.70	1524	2488	0.0423	490	345
350	37	345	41.28	1625	3067	0.0302	605	415
500	37	345	45.94	1809	4074	0.0212	755	500
750	61	345	50.73	1997	5489	0.0141	970	610
1000	61	345	54.48	2145	6817	0.0106	1160	690
1250	91	345	58.11	2288	8181	0.0085	1320	-
1500	91	345	61.22	2410	9482	0.0071	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).