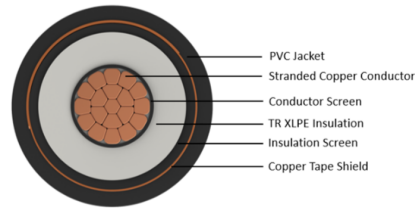
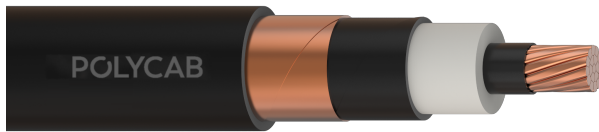


# POLYCAB 15KV COPPER UL 1072 TRXLPE- 100% MV Cable, TR-XLPE 100% LEVEL



Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB 15KV 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: 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 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)		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
- 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



# POLYCAB 15KV COPPER UL 1072 TRXLPE- 100% MV Cable, TR-XLPE 100% LEVEL

## Dimensional and Electrical Characteristics:

CONDUCTOR SIZE	NO OF STRANDS	NOMINAL INSULATION THICKNESS	NOMINAL OVERALL DIAMETER (APPROX)		APPROX WEIGHT	MAX CONDUCTOR DC RESISTANCE AT 25°C	*AMPACITY IN AIR at 40°C	**AMPACITY IN DUCT at 40°C
AWG/kcmil	No.	mil	mm	mil	kg/km	ohm/1000ft	Amps	Amps
1/0	19	175	24.91	981	1100	0.1022	290	215
2/0	19	175	26.12	1028	1277	0.0811	335	245
3/0	19	175	27.28	1074	1464	0.0643	385	275
4/0	19	175	28.69	1130	1710	0.0510	445	315
250	37	175	30.08	1184	1940	0.0432	495	345
350	37	175	32.66	1286	2484	0.0308	610	415
500	37	175	35.92	1414	3280	0.0216	765	500
750	61	175	40.71	1603	4612	0.0144	990	610
1000	61	175	45.86	1806	6040	0.0108	1185	690
1250	91	220	51.75	2037	7559	0.0086	1350	-
1500	91	220	54.73	2155	8816	0.0072	1500	-

#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).