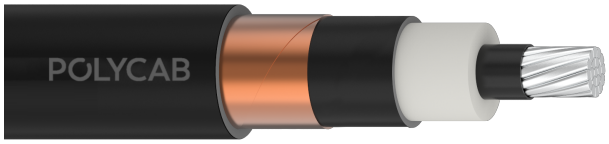
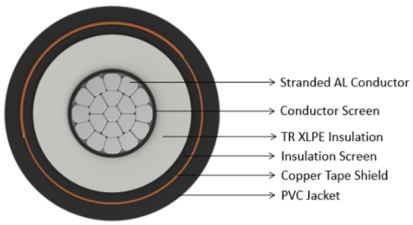
POLYCAB 15KV ALUMINIUM UL 1072 TRXLPE 100% MV Cable, TRXLPE 100% LEVEL





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 15KV Class B Compact Stranded 8000 series Aluminium Alloy Conductor TRXLPE 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: Class B Compact Stranded 8000 series Aluminium Alloy Conductor as per ASTM B800 and ASTM B836
- Conductor Screen: Extruded Semi-conductive compound
- Insulation: Extruded TRXLPE 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 B800 8000 series Aluminium alloy wire
- ASTM B836 Compact Round Stranded Aluminium 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.: 00130.Rev No.: 00 30-12-2023 / We reserve the rights to make technical changes.

POLYCAB 15KV ALUMINIUM UL 1072 TRXLPE 100% MV Cable, TRXLPE 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	175	24.24	954	737	0.168	225	165
2/0	19	175	25.365	999	817	0.133	260	190
3/0	19	175	26.445	1041	898	0.106	300	215
4/0	19	175	27.75	1093	1002	0.084	350	245
250	37	175	29.057	1144	1105	0.071	385	270
350	37	175	31.451	1238	1324	0.051	480	330
500	37	175	34.475	1357	1635	0.035	600	400
750	61	175	38.932	1533	2147	0.024	780	490
1000	61	175	43.815	1725	2769	0.018	940	565
1250	91	220	49.452	1947	3458	0.014	1080	-
1500	91	220	52.224	2056	3918	0.012	1215	-

#Above values are approximate and subject to standard manufacturing tolerance

* Ampacities are based on Table 310.60(C)(70) of 2014 National Electrical Code (where ambient air temperature is 40°C).

** Ampacities are based on Table 310.60(C)(78) detail 1. Of 2014 National Electrical Code (where Ambient earth temperature is 20°C and earth thermal resistivity (RHO) is 90).