

SPEC SHEET

HIGH VOLTAGE ELECTRIC CABLE

PROEV™ XLPE T-SERIES CABLE

Tough Series : Specifically designed for harsh environments.



TECHNICAL DATA

Conformance: ISO19642

Temperature Class: -40°C +150°C

Rated Voltage: 1000/1500 AC/DC

Environmental Standard: RoHS

Color: Orange (RAL2003)

Braid Material: Tinned Copper

Shielding: ≥ 85% Coverage

Insulation Material: XLPE

Core Wrap: AL-Mylar



Variable
durability



Temperature range
(-40 °C to 150 °C.)



≥ 85% shielding
coverage



ISO 19642
1000v AC / 1500v DC



Enhanced UV and
weather resistance



Abrasion
resistant

PROEV™ XLPE-T (SHIELDED)

Product Number	Standard Conductor Bare Copper (mm ²)	Conductor Size (mm)	Max. Conductor Stranded OD (mm)	Nom. Insulation Diameter (mm)	Min. Insulation Thickness (mm)	Max. Shield Diameter Tinned Copper (mm)	Nom. Shield Coverage (%)	Nom. Final Diameter (mm)	Min. Jacket Thickness (mm)	Min. Static Bend Radius (mm)	Nom. Finished Weight (kg/km)	Conductor Resistance (mΩ/m)	Temp. Range (°C)
				XLPE				XLPE		Fixed Install.			
PROEVLPE-025	2.5	50(±5%)/0.25(±0.008)	2.20	2.85 ±0.15	0.28	3.52	≥85%	5.00 ±0.20	0.56	5×OD	52.42	≤ 7.600	-40°C~+150°C
PROEVLPE-4	4	120(±5%) / 0.20 (±0.008)	2.80	3.60 ±0.10	0.32	4.34	≥85%	5.80 ±0.20	0.38	5×OD	74.55	≤ 4.710	-40°C~+150°C
PROEVLPE-6	6	84(±5%)/0.30(±0.008)	3.40	4.15 ±0.20	0.32	4.99	≥85%	6.60 ±0.30	0.64	5×OD	103.27	≤ 3.140	-40°C~+150°C
PROEVLPE-10	10	320(±5%)/0.20(±0.008)	4.50	5.75 ±0.20	0.48	6.71	≥85%	8.40 ±0.30	0.64	5×OD	175.17	≤ 1.820	-40°C~+150°C
PROEVLPE-16	16	512(±5%)/0.20(±0.008)	5.80	6.90 ±0.30	0.52	7.96	≥85%	9.70 ±0.30	0.80	5×OD	254.45	≤ 1.160	-40°C~+150°C
PROEVLPE-25	25	790(±5%)/0.20(±0.008)	7.80	8.20 ±0.30	0.52	9.34	≥85%	11.20 ±0.30	0.80	5×OD	363.44	≤ 0.743	-40°C~+150°C
PROEVLPE-35	35	1070 (±5%) / 0.20 (±0.008)	8.50	10.15 ±0.35	0.64	11.30	≥85%	14.10 ±0.30	0.80	5×OD	526.51	≤ 0.527	-40°C~+150°C
PROEVLPE-50	50	1600 (±5%) / 0.20 (±0.008)	10.50	11.50 ±0.30	0.71	12.64	≥85%	14.90 ±0.30	0.90	5×OD	683.28	≤ 0.368	-40°C~+150°C
PROEVLPE-70	70	2147(±5%) / 0.20 (±0.008)	12.50	13.70 ±0.30	0.80	14.84	≥85%	17.00 ±0.30	0.90	5×OD	920.72	≤ 0.259	-40°C~+150°C
PROEVLPE-95	95	3000(±5%) / 0.20 (±0.008)	14.80	16.20 ±0.40	0.90	17.64	≥85%	19.90 ±0.40	0.92	6×OD	1246.42	≤ 0.196	-40°C~+150°C
PROEVLPE-120	120	3724(±5%) / 0.20(±0.008)	16.50	18.00 ±0.40	0.90	19.44	≥85%	22.60 ±0.40	0.92	6×OD	1575.36	≤ 0.153	-40°C~+150°C
PROEVLPE-150	150	2960(±5%) / 0.20(±0.008)	17.80	20.00 ±0.40	0.90	21.44	≥85%	24.90 ±0.50	1.28	6×OD	1877.92	≤ 0.129	-40°C~+150°C

XLPE (UNSHIELDED)

Product Number	Standard Conductor Bare Copper (mm ²)	Conductor Size (mm)	Max. Conductor Stranded OD (mm)	Nom. Insulation Diameter (mm)	Min. Insulation Thickness (mm)	Nom. Final Diameter (mm)	Min. Jacket Thickness (mm)	Min. Static Bend Radius (mm)	Nom. Finished Weight (kg/km)	Conductor Resistance (mΩ/m)	Temp. Range (°C)
				XLPE				XLPE			
PROEVLPE-4UNS	4	84 (±5%) / 0.30 (±0.008)	3.40	4.20 ±0.25	0.32	6.35 ±0.25	0.46	4×OD	102.20	≤ 3.140	-40°C~+150°C
PROEVLPE-6UNS	6	323 (±5%) / 0.20 (±0.008)	4.50	5.70 ±0.35	0.48	8.50 ±0.35	0.70	4×OD	176.10	≤ 1.820	-40°C~+150°C
PROEVLPE-10UNS	10	512 (±5%) / 0.20 (±0.008)	5.80	6.90 ±0.35	0.52	11.20 ±0.35	0.70	4×OD	282.90	≤ 1.160	-40°C~+150°C
PROEVLPE-16UNS	16	790 (±5%) / 0.20 (±0.008)	7.20	8.50 ±0.35	0.64	11.95 ±0.35	0.75	4×OD	385.80	≤ 0.743	-40°C~+150°C
PROEVLPE-25UNS	25	1070 (±5%) / 0.20 (±0.008)	8.50	10.15 ±0.40	0.64	14.15 ±0.40	0.80	4×OD	518.30	≤ 0.527	-40°C~+150°C
PROEVLPE-50UNS	50	1600 (±5%) / 0.20 (±0.008)	10.50	11.85 ±0.70	0.71	15.55 ±0.40	0.80	4×OD	695.70	≤ 0.368	-40°C~+150°C

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TEST LIST

	Unit	Requirement	Typical Result	Decision	
Physical Properties	Tearing Resistance	N/mm	N/A	Pass	
	Strip Force: Insulation-Conductor / Jacket-Shield	N	N/A	Pass	
	Bend Cycling: R=2.5D, Load=5N/mm ² , 15 cyc/min, Bend±90°, Total Cycles=5000, 1KV, 1min	N/A	No visible conductors, No breakdown	No visible conductors, No breakdown	Pass
	Sandpaper Abrasion	N/A	N/A	No cracking	Pass
	Scrape Abrasion	N/A	N/A	No cracking	Pass
	Thermol Overload: 230°C, 6h	N/A	N/A	No breakdown, No cracking	Pass
	Fluid Compatibility: Engine Oil	%	15%	12.60%	Pass
Electrical Properties	Flame Test	s, mm	≤70s, ≥50mm unburned	29s, 482mm unburned	Pass
	Withstand Voltage	N/A	5KVAC/5min	No dielectric breakdown, No cracking	Pass
	Insulation Faults - Spark Test	N/A	8KVAC	No faults	Pass
	Conductor Resistance (20°C)	Ω/km	≤ 0.368	0.339	Pass

* Testing results of PROEV™ XLPE-50 for reference

** Additional testing available upon request

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