

SPEC SHEET

HIGH VOLTAGE ELECTRIC CABLE

PROEV™ SILR CABLE

Silicone Jacket : Specifically designed for ultra flexibility.



TECHNICAL DATA

Conformance: LV216-2/ISO14572

Temperature Class: -40°C +180°C

Rated Voltage: 600/1000 AC/DC

Environmental Standard: RoHS

Color: Orange (RAL2003)

Braid Material: Tinned Copper

Shielding: ≥ 85% Coverage

Insulation Material: Silicone

Core Wrap: AL-Mylar



Enhanced flexibility



Temperature range
(-40 °C to 180 °C.)



≥ 85% shielding coverage



ISO 14572
600v AC / 1000v DC



UV and Weather resistant

PROEVSILR (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)
				Silicone Rubber				Silicone Rubber		Fixed Install.			
PROEVSILR-6	6	84 (±5%) / 0.30 (±0.008)	3.40	4.15 ±0.15	0.32	4.94	≥85%	6.30 ±0.20	0.46	4×OD	100.80	≤ 3.140	-40°C~+180°C
PROEVSILR-6L	6	84 (±5%) / 0.30 (±0.008)	3.40	4.15 ±0.15	0.32	4.94	≥85%	6.50 ±0.20	0.46	4×OD	103.49	≤ 3.140	-40°C~+180°C
PROEVSILR-10	10	323(±5%)/0.20(±0.008)	4.50	5.70 ±0.30	0.48	6.64	≥85%	8.50 ±0.30	0.70	4×OD	176.10	≤ 1.820	-40°C~+180°C
PROEVSILR-16	16	512(±5%)/0.20(±0.008)	5.80	6.90 ±0.30	0.52	7.80	≥85%	11.20 ±0.25	0.70	4×OD	282.90	≤ 1.160	-40°C~+180°C
PROEVSILR-25	25	790 (±5%) / 0.20 (±0.008)	7.20	8.50 ±0.30	0.64	9.60	≥85%	11.90 ±0.30	0.75	4×OD	385.80	≤ 0.743	-40°C~+180°C
PROEVSILR-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	4×OD	518.30	≤ 0.527	-40°C~+180°C
PROEVSILR-50	50	1600 (±5%) / 0.20 (±0.008)	10.50	11.85 ±0.35	0.71	13.00	≥85%	15.50 ±0.30	0.80	4×OD	695.70	≤ 0.368	-40°C~+180°C
PROEVSILR-50L	50	1600 (±5%) / 0.20 (±0.008)	10.50	11.85 ±0.35	0.71	13.00	≥85%	17.00 ±0.30	0.80	4×OD	746.95	≤ 0.368	-40°C~+180°C
PROEVSILR-70	70	2175 (±5%) / 0.20 (±0.008)	12.50	13.70 ±0.70	0.80	15.20	≥85%	17.80 ±0.40	0.90	4×OD	942.79	≤ 0.259	-40°C~+180°C
PROEVSILR-70L	70	2175 (±5%) / 0.20 (±0.008)	12.50	13.70 ±0.70	0.80	15.20	≥85%	19.50 ±0.30	0.90	4×OD	1009.48	≤ 0.259	-40°C~+180°C
PROEVSILR-95	95	3000(±5%) / 0.20(±0.008)	14.80	16.50 ±0.70	0.90	18.20	≥85%	20.50 ±0.40	0.92	5×OD	1258.04	≤ 0.196	-40°C~+180°C
PROEVSILR-120	120	3700(±5%) / 0.20(±0.008)	16.50	18.30 ±0.70	1.28	20.00	≥85%	22.60 ±0.40	1.16	5×OD	1553.00	≤ 0.153	-40°C~+180°C

PROEVSILR (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)
				Silicone Rubber				Silicone Rubber			
PROEVSILR-4UNS	6	56 (±5%) / 0.30 (±0.008)	2.60	4.20 ±0.20	0.64	—	—	4×OD	48.17	≤ 4.710	-40°C~+180°C
PROEVSILR-6UNS	10	84 (±5%) / 0.30(±0.008)	3.40	4.80 ±0.20	0.64	—	—	4×OD	68.67	≤ 3.100	-40°C~+180°C
PROEVSILR-10UNS	16	323 (±5%) / 0.20(±0.008)	4.50	6.20 ±0.30	0.80	—	—	4×OD	121.47	≤ 1.820	-40°C~+180°C
PROEVSILR-16UNS	25	512 (±5%) / 0.20 (±0.008)	5.80	8.00 ±0.30	0.80	—	—	4×OD	195.96	≤ 1.160	-40°C~+180°C
PROEVSILR-25UNS	35	790 (±5%) / 0.20 (±0.008)	7.20	9.70 ±0.30	1.04	—	—	4×OD	229.73	≤ 0.743	-40°C~+180°C
PROEVSILR-50UNS	50	1600 (±5%) / 0.20 (±0.008)	10.50	12.80 ±0.40	1.20	—	—	4×OD	564.60	≤ 0.368	-40°C~+180°C

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TEST LIST

	Unit	Requirement	Typical Result	Decision	
Physical Properties	Tearing Resistance	N/mm	Jacket: 17.52N/mm Insulation: 15.12N/mm	Pass	
	Strip Force: Insulation-Conductor / Jacket-Shield	N	Jacket-Shield: 18.836N, 21.828N, 22.892N Insulation-Conductor: 24.328N, 18.556N, 19.516N	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%	3.48%	Pass
Electrical Properties	Flame Test	s, mm	≤70s, ≥50mm unburned	21s, 466mm 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	≤0.527	0.518	Pass

* Testing results of PROEV™ SILR-35 for reference

** Additional testing available upon request

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