



Pacific Electric 太電

DC Power ESS Connection Cable Assembly



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Pacific Electric has launched energy storage cables primarily designed for 2,000V energy storage systems. These cables are used for series and parallel connections between batteries and for power transmission between energy storage batteries and solar inverters, supporting the seamless operation of energy storage systems. The energy storage cable assemblies feature high current capacity, high voltage resistance, and low loss. Additionally, the cables must pass multiple safety certification tests, including flame resistance, abrasion resistance, and corrosion resistance, and comply with standards such as UL 11627, UL 3932, and RoHS 2.0.

■ APPLICATIONS

Transmission lines for series and parallel battery connection in energy storage systems and for connection between ESS batteries and photovoltaic inverters.

■ FEATURES

- Electrical specifications meet requirements for energy storage systems capable of 2,000V
- Standardized connectors for quick and easy installation
- Temperature Rating : up to 105°C
- Compliant with VW-1 flame rating
- Environmentally friendly lead-free manufacturing process
- Compliant with UL 11627, UL 3932, and RoHS 2.0 specifications



SPECIFICATIONS

Model	DECA-27-10A	DECA-27-8A	DECA-27-6A	DECA-27-4A	DECA-27-3A	DECA-27-2A	DECA-27-1A
Voltage(V)	2,000						
Max. Safe Current (A@40°C)	55	80	110	150	172	203	238
Conductor Size	10AWG	8AWG	6AWG	4AWG	3AWG	2AWG	1AWG
Conductor Diameter(mm)	3.0	4.1	5.2	6.6	7.2	8.2	9.4
Max. Conduct Resistance (Ω/km@20°C)	3.55	2.35	1.48	0.928	0.744	0.590	0.467
Insulation Thickness(mm)	0.85	1.2	1.65	1.65	1.6	1.9	2.3
Cooling Method	Air						
Operating Temperature Range(°C)	-10 to 105						

Model	DECA-27-1/0A	DECA-27-2/0A	DECA-27-3/0A	DECA-27-4/0A	DECA-27-250M	DECA-27-500M
Voltage(V)	2,000					
Max. Safe Current (A@40°C)	277	319	371	431	480	750
Conductor Size	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	250MCM	500MCM
Conductor Diameter(mm)	10.5	11.8	13.2	14.8	16.1	22.8
Max. Conduct Resistance (Ω/km@20°C)	0.370	0.297	0.236	0.187	0.158	0.0798
Insulation Thickness(mm)	2.4	2.5	2.6	2.6	2.7	2.7
Cooling Method	Air					
Operating Temperature Range(°C)	-10 to 105					

