



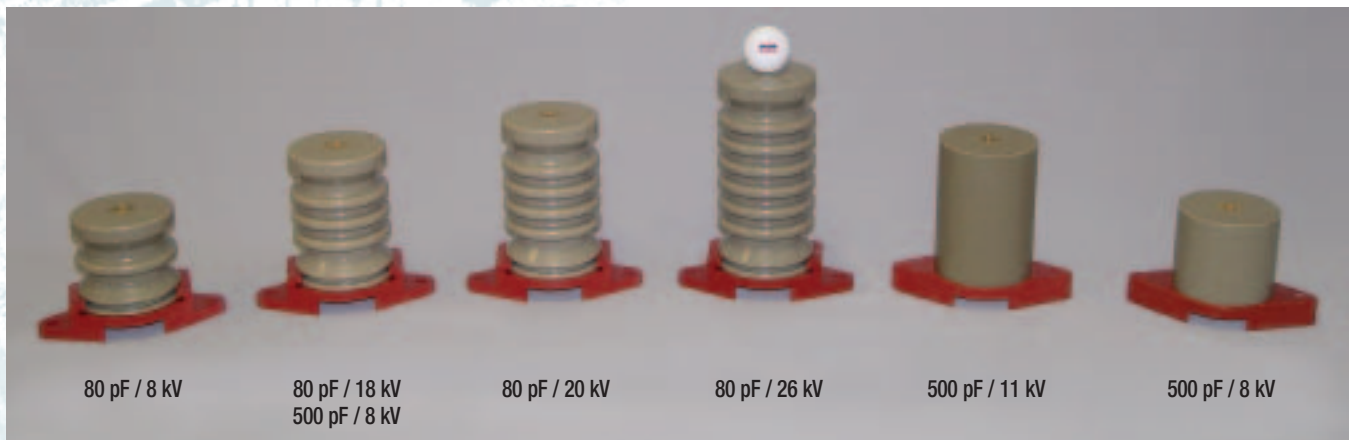
PDA
COUPLERS

ADWEL INTERNATIONAL LTD.

The Widest Range of PDA Epoxy Mica Capacitive Couplers (EMCs) On The Market

EMCs continue to dominate the on-line partial discharge monitoring industry despite the introduction of other coupling devices, such as Rogowski coils, RTDs, antennas, RF transformers etc.

ADWEL International offered the first commercial on-line PD monitoring systems (including instruments and couplers) in 1986. In keeping with our high quality and reliability standards, we continue to manufacture our couplers in-house and maintain full control over the quality of the materials and the cost of the finished products. Today ADWEL boasts the widest available range of capacitances (both traditional 80pF and high-sensitivity 500/1000pF), sizes and ratings - see table overleaf.



All models are cast in specially designed moulds, without any machining of the exposed areas. As a result they feature high gloss, impermeable surface, extremely resistant to tracking.

Deeper brass inserts with UNC or ISO metric threads

Temperature range -35 to $+135^{\circ}\text{C}$

PDA Couplers are made with directly imported, highest quality virgin Mica splittings, not reconstituted Mica materials.

The epoxy material used is flame retardant, with excellent high temperature stability. Tracking properties are tested in accordance with ANSI C37.20.2, and Arc resistance in accordance with ASTM

D495. Dielectric strength of the epoxy is 775 V/mil (30kV/mm) at 20C and 950 V/mil (37kV/mm) at 100C.

The capacitors are type tested in accordance with IEEE 1043 and IEEE 1553, for 400 hours, at maximum specified temperature and voltage.

CEV levels have been tested with 1pC sensitivity in accordance with ASTM D1868 and IEC 60270.

B.I.L. tested according to ANSI/IEEE standard C37.23-1987 to 175kV.

Approved and regularly used by major OEMs for installation on new and existing machines.

PDA COUPLERS



To facilitate reliable mechanical and electrical installation of our couplers, we provide complete mounting and installation kits, as shown here.

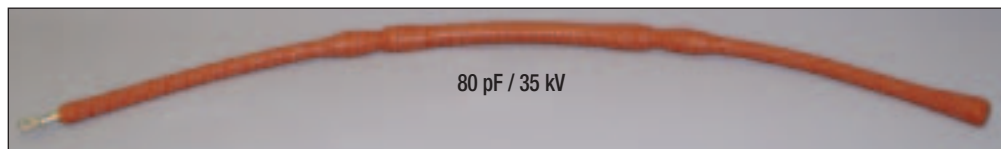
Essential Specifications*

Coupler Type	Capacitance (pF)	Temperature Range C	CEV (kV)	AC Hipot (kV)	Height* (mm/inch)	Diameter (mm/inch)	Mass (kg)
CEF 80/8/3	80	-35 to +135	8	17	86/3.38	91/3.5	0.95
CEF80/18/5	80	-35 to +135	18	40	126/5	91/3.5	1.4
CEF 80/20/6	80	-35 to +135	20	41	145/5.7	91/3.5	1.7
CEF 80/26/7	80	-35 to +135	26	53	185/7.25	91/3.5	2.1
CE 500/8/3	500	-35 to +135	8	17	75/3	91/3.5	1.1
CEF 500/8/3	500	-35 to +135	8	17	75/3 or 126/5	114/4.5 or 91/3.5	1.5
CE 500/11/5	500	-35 to +135	11	23	126/5	91/3.5	1.7
CE 1000/9/5	1000	-35 to +135	9	20	126/5	91/3.5	1.7
CE 1000/15/7	1000	-35 to +135	15	30	190/7.5	91/3.5	3

*Add 20mm if installed with recommended ADWEL bases (see photo above).
All EMC are equipped with 3/8-16 UNC thread on both ends, or, on request, M10.

*Specifications are subject to change without notice.

The original cable-type coupler, first offered by ADWEL International Ltd. almost twenty years ago, is also available for immediate delivery.



CC 80/35	80	-35 to +90	35	57	1550/61	50/2	1.8
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Represented by:

Other ADWEL PDA Products

Full range of instruments, couplers, accessories and services for periodic and continuous on-line partial discharge monitoring, such as:

- PDA Premium - The simplest and easiest to use full-featured portable Partial Discharge Analyzer on the market
- COPA - the most comprehensive and flexible continuous PD system on the market
- STB - the most economical and straightforward continuous PD monitor on the market
- Custom-configured installation, supervision and training services for coupler installation and complete system commissioning
- Analysis and interpretation of PDA test results by some of the most experienced people in the industry



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