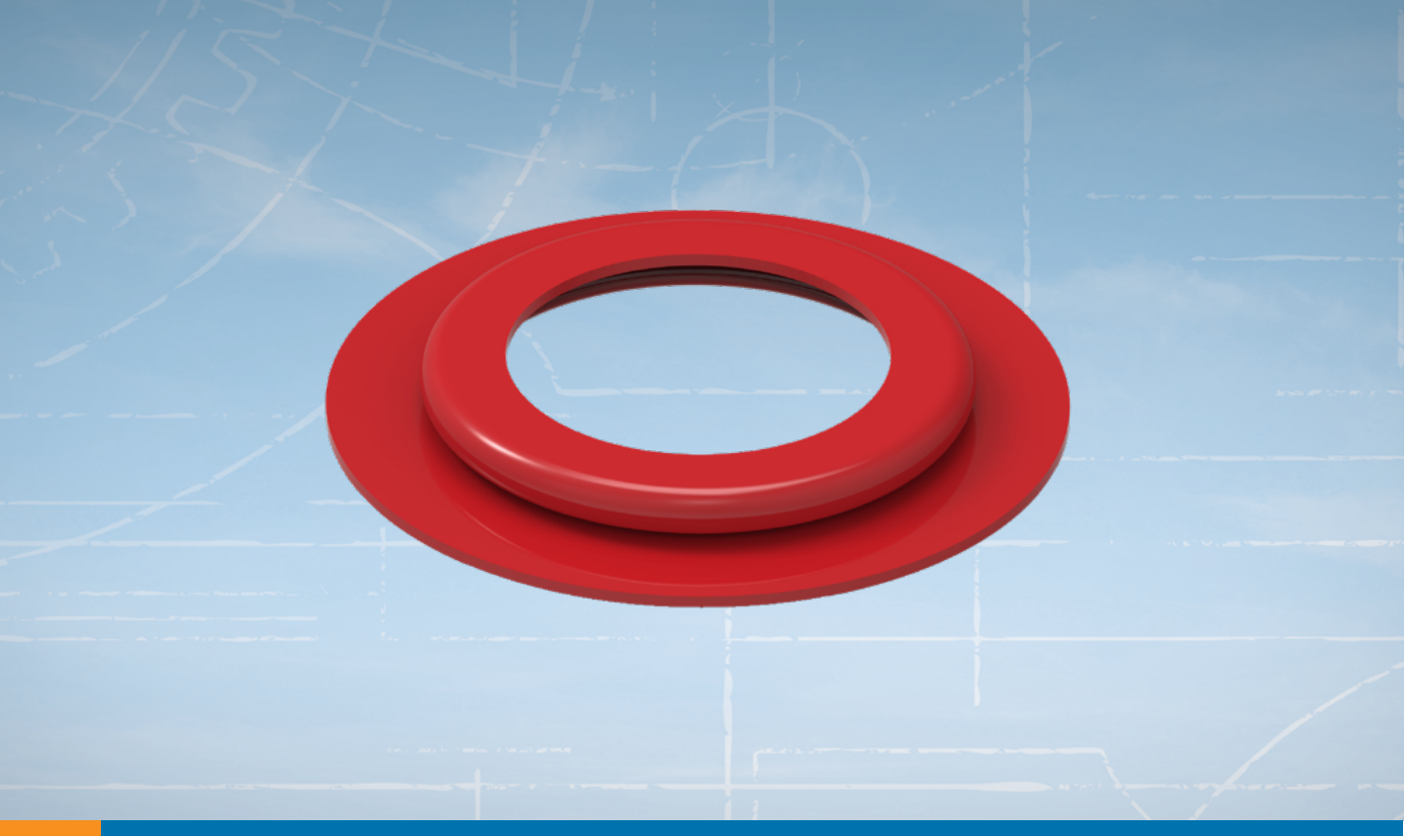


# HIGH VOLTAGE CREEPAGE EXTENDERS (HVCE)

## A REMEDY FOR POLLUTION FLASHOVERS OF INSULATORS

### KEY FEATURES

- Increases flashover withstand
- Increases creepage length
- Reduces electrical stress
- REACH and RoHS Compliant
- Improves insulator shape and bonds to insulator surface
- Easy to install
- Proven rugged material

TE Connectivity's (TE) Raychem creepage extenders have been used to prevent pollution flashover on insulators for over 30 years. The extenders are sealed to porcelain or glass insulators, driving the high leakage currents found in polluted areas around the edge of the extender's skirt.

Heat shrink creepage extenders help to increase the flashover performance of insulators by reducing the surface electrical stress and leakage current and increasing the creepage length of the insulators. The extenders are designed to be resistant to conventional spray washing techniques and will withstand most normal handling, abuse, and extreme weather conditions.

Each HVCE extender adds a nominal 100 mm (4 inches) to the creepage length. As a general recommendation, TE advises a 20 percent increase in existing creepage distance

Changing environments can cause increases in pollution levels which lead to excessive contamination of high voltage insulators. This may lead to unacceptably frequent flashovers if the creepage length and general design is inadequate.

Our creepage extenders are polymeric skirts internally coated with a specially formulated mastic. When heated the product shrinks around and bonds onto an existing insulator shed increasing the effective diameter and creepage distance of the insulator.

**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

Each extender is tailored to suit the insulator profile used. There is a wide range of extenders already available, which fit the more commonly used profiles.

| PRODUCT SELECTION INFORMATION: DIMENSIONS IN MM (INCHES) | | | | | |
|---|---|---|---|---|---|
| **Description** | **Min. internal diameter of the HVCE (as supplied)** | **Min. skirt diameter of insulator (A)** | **Max. skirt diameter of insulator (A)** | **Nominal creepage extension per extender** | **Standard Pack** |
| **HVCE-100/80-01 (B6)** | 115 (4.5) | 81 (3.2) | 99 (4.0) | 100 (4.0) | 6 |
| **HVCE-120/100-01 (B6)** | 135 (5.3) | 99 (4.0) | 119 (4.7) | 100 (4.0) | 6 |
| **HVCE-140/120-01 (B6)** | 155 (6.1) | 119 (4.7) | 140 (5.5) | 100 (4.0) | 6 |
| **HVCE-160/140-01 (B6)** | 180 (7.1) | 140 (5.5) | 160 (6.3) | 100 (4.0) | 6 |
| **HVCE-183/161-01 (B6)** | 205 (8.1) | 160 (6.3) | 183 (7.2) | 100 (4.0) | 6 |
| **HVCE-205/184-01 (B6)** | 230 (9.0) | 183 (7.2) | 206 (8.1) | 100 (4.0) | 6 |
| **HVCE-226/206-11 (B3)** | 241 (9.5) | 206 (8.1) | 226 (8.9) | 100 (4.0) | 3 |
| **HVCE-247/227-11 (B3)** | 262 (10.3) | 226 (8.9) | 246 (9.7) | 100 (4.0) | 3 |
| **HVCE-268/248-11 (B3)** | 283 (11.1) | 246 (9.8) | 267 (10.5) | 100 (4.0) | 3 |
| **HVCE-289/269-11 (B3)** | 304 (12.0) | 267 (10.6) | 290 (11.4) | 100 (4.0) | 3 |
| **HVCE-310/290-11 (B3)** | 325 (12.8) | 290 (11.4) | 310 (12.2) | 100 (4.0) | 3 |
| **HVCE-331/311-11 (B3)** | 346 (13.6) | 310 (12.2) | 330 (13.0) | 100 (4.0) | 3 |
| **HVCE-352/332-11 (B3)** | 367 (14.4) | 330 (13.1) | 353 (13.8) | 100 (4.0) | 3 |
| **HVCE-373/353-11 (B3)** | 388 (15.3) | 353 (13.9) | 373 (14.7) | 100 (4.0) | 3 |
| **HVCE-394/374-11 (B3)** | 409 (16.1) | 373 (14.7) | 393 (15.5) | 100 (4.0) | 3 |

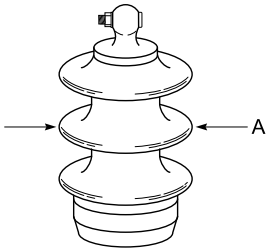
## ORDERING/APPLICATION INFORMATION

1. Select the appropriate catalogue number. Confirm selection with insulator skirt outer diameter (A).

2. Each HVCE extender adds a nominal 100 mm to the creepage length. As a general recommendation, TE advises a 20 percent increase in existing creepage distance.

3. For applications that do not fall within the ranges above, contact your local TE representative.

4. HVCE does not upgrade the voltage class of the insulator.




Detailed explanation of this phenomena, field history, test data, and technical specifications are available from your TE representative.

| TECHNICAL REPORT | |
|---|---|
| **EDR-5350** | HVCE Product Test Report |
| **UVR-8144** | HVCE Qualification Test Report |

| INSTALLATION INSTRUCTIONS | |
|---|---|
| **PII-53101** | Installation Instructions for High Voltage Creepage Extenders |

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