



Raychem EPBI Standoff Insulators

The Raychem EPBI is a lightweight direct molded composite insulator, using Raychem proprietary EVA insulating material. The EVA is chemically bonded to the FRP core providing impenetrable interface sealing mechanism and the crimped assembly ensures optimal mechanical performance.

Features:

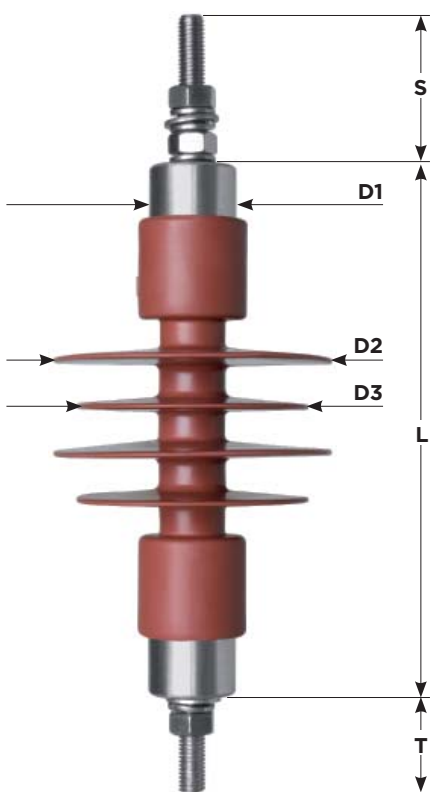
- High strength FRP core
- Standard stainless steel fittings
- Impenetrable interfacial sealing
- Pollution resistant EVA HV insulation housing in service since the 1970's.
- Alternating shed configuration for optimal pollution flashover performance

Benefits:

- Lightweight - easy installation and reduced transport costs
- High corrosion resistance
- Excellent performance in polluted environments
- Excellent resistance to vandalism
- Shatterproof design - breakages eliminated during installation.

Raychem EPBI Standoff Insulators

Product series	EPBI - 1000	EPBI - 2000	EPBI - 3000
Part description	EPBI-19R-PPS-25kN-M01	EPBI-27R-PPS-25kN-M01	EPBI-46R-PPS-25kN-M01
Length L [mm]	226	266	366
Standard min. stud length S [mm]	63	63	63
Standard min. stud length T [mm]	34	34	34
D1 [mm]	38	38	38
D2 [mm]	120	120	120
D3 [mm]	100	100	100
Number of sheds	4	6	11
Electrical			
Creepage [mm]	497	687	1169
Dry arc distance [mm]	205	244	347
Wet AC withstand voltage [kV]	52	66	104
Impulse withstand voltage [kV]	159	185	252
Mechanical			
Specified cantilever load [Nm]	580	580	580
MDCL [Nm]	290	290	290
Specified tensile load [kN]	25	25	25
Torque M12 [Nm]	50	50	50



SPS class overview:

Part description	SPS class at Um				
	12kV	17.5kV	24kV	36kV	52kV
EPBI-19R...	e	d	c		
EPBI-27R...	e	e	d		
EPBI-46R...			e	e	c

Naming convention:

EPBI-19R-PPS-25kN

Line-to-line voltage*
 S - Stainless steel fittings
 Blank - No studs
 -M01 - With standard studs
 *based on creepage required for SPS class 'd'

Applications:

The insulator range is suitable for medium voltage in the following applications:

- Standoff application for MV cable terminations
- Support insulators for fuse holders
- Indoor/outdoor

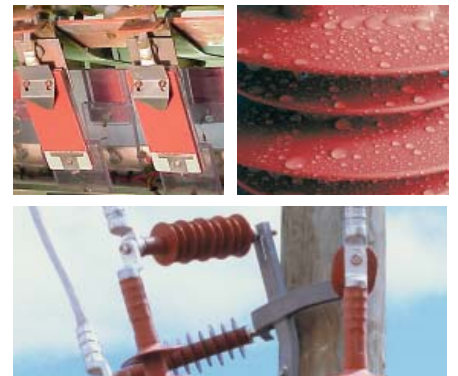
Production and quality:

The production process ensures void free construction and optimal interfacial sealing. This is achieved by bonding the EVA insulating material directly to the glass fibre rod and stainless steel fittings using a Raychem proprietary bonding agent. Every insulator is routine tested in tension to 50% of its STL in accordance with IEC 61952.

Raychem EVA:

Features of Raychem EVA are:

- Alternating sheds for superior pollution flashover resistance
- Superior TERT performance
- Constant voltage: 4.5kV, >360min
- Stepped voltage: >300min
- All eventual failures by erosion only, ie no tracking in step voltage test
- Housing tested to 1000hr salt fog test according to IEC 62217.



For further information please contact insulators@te.com

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