

# Raychem Polymeric Station Post Insulator RAP

The Raychem polymeric station post insulator RAP combines mechanical strength with excellent pollution performance. It consists of a pultruded fibre glass rod and a non-tracking polymer housing which is directly bonded to the metal end fitting. Long-term service experience and laboratory testing have shown the outstanding performance of the insulating material particularly under severe environmental conditions.

Corrosion resistant end fittings designed for high cantilever loads are crimped to both ends of the insulator. A patented crimp control technology prevents damage to the fibre glass rod while achieving maximum mechanical strength. The direct bonding of the polymer housing to the metal end fitting results in an ideal moisture barrier in the sensitive interface area.

## Features

Composite design

EVA housing

Direct bonding to end fitting

Patented crimp technology

## Benefits

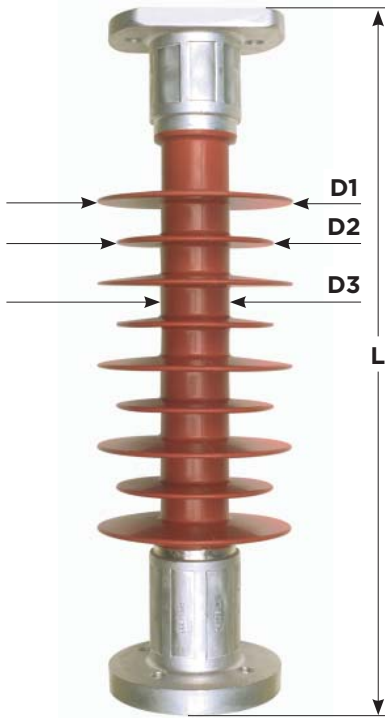
Lightweight - easy installation and reduced transport costs  
Vandal and break resistant

High tracking and erosion resistance  
Excellent performance under polluted conditions  
Reduced maintenance costs

Ideal moisture barrier - avoids moisture ingress to the fibre glass rod  
Tailor made design according to customer requirements is possible

Maximum mechanical strength without damaging the fibre glass rod

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## Technical specification

Dimensions in mm (inches)	RAP-24R- A66-305	RAP-36R- A66-350	RAP-46R- A66-460	RAP-52R- A66-475
Length	305 (12.0)	350 (13.78)	460 (18.11)	475 (18.7)
Dry arc distance	211 (8.31)	255 (10.0)	360 (14.17)	388 (15.28)
Creepage distance	631 (24.84)	809 (31.85)	1190 (46.85)	1333 (52.48)
No. of sheds	7	9	13	15
Diameter D1	120 (4.72)	120 (4.72)	120 (4.72)	120 (4.72)
Diameter D2	100 (3.94)	100 (3.94)	100 (3.94)	100 (3.94)
Diameter D3	37 (1.46)	37 (1.46)	37 (1.46)	37 (1.46)
<b>Electrical values in kV</b>				
Dry AC withstand (flashover)	90 (100)	100 (>100)	115 (150)	115 (150)
Wet AC withstand (flashover)	50 (60)	75 (85)	110 (125)	110 (125)
Impulse withstand voltage	150	170	250	250
<b>Mechanical values in kN</b>				
Specified cantilever load	12	10	7	6
Specified tensile load	25	25	25	25

## Ordering information

Description	Std pkg	Pkg weight	Pkg volume
RAP-24R-A66-305	45 pcs	106 Kg (106 lbs)	0.510 m <sup>3</sup>
RAP-36R-A66-350	45 pcs	115 Kg (254 lbs)	0.510 m <sup>3</sup>
RAP-46R-A66-460	45 pcs	134 Kg (296 lbs)	0.510 m <sup>3</sup>
RAP-52R-A66-475	45 pcs	139 Kg (307 lbs)	0.510 m <sup>3</sup>

### End fittings

Standard top and base end fittings are with M10 threads on a 66 mm PCD. Various other end fittings as well as customer required designs, i.e. 76 mm (3") PCD, are available on request.

### Applications

The insulators are suitable for high compressive and cantilever loads up to a system voltage of 52 kV (IEC 60071-1), e.g. isolators (disconnectors), bus-bar and fuse support.

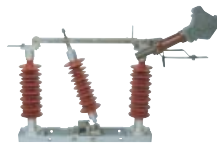
### Environmental

IEC 61109, Annex C: 5000 hours ageing test under operating voltage simulating weather conditions (various stresses in a cyclic manner)

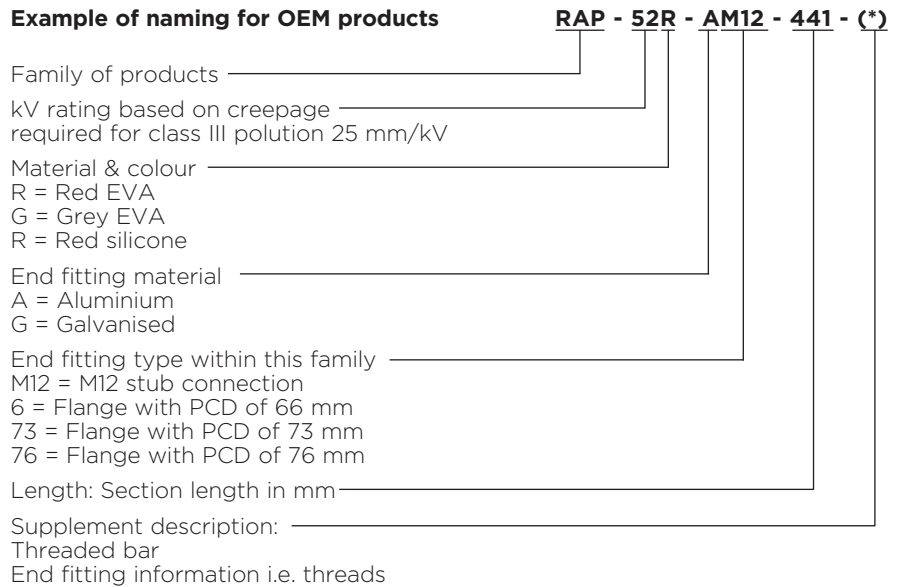
### Test reports

PPR 1506  
Summary test report for the PSI-36A-ZM12A-P, PSI-36A-Z2.6A-P, PSI-36ZM12A and PSI-36A-Z2.6A insulators

T97-456  
5000h ageing test in accordance with IEC 1109 Annex C on one composite insulator type Post-F 5-4 25 kV



### Example of naming for OEM products



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