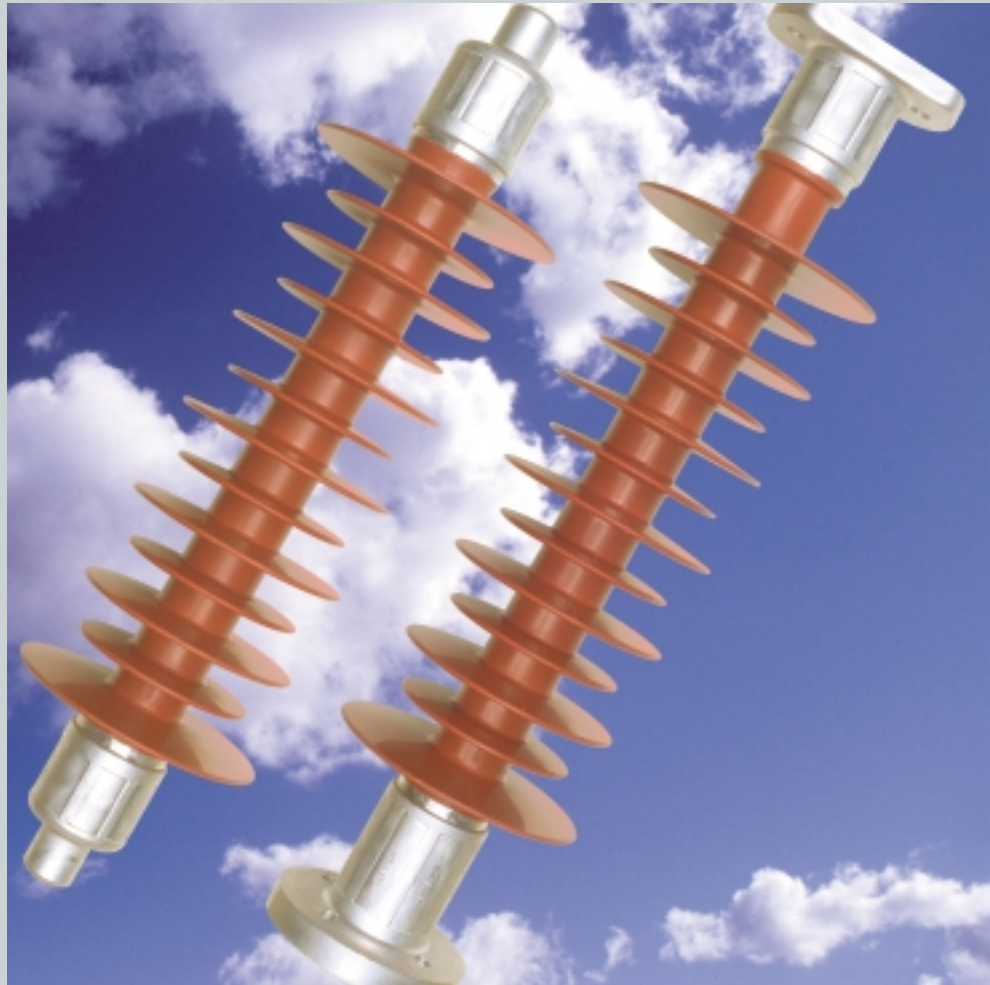


**RAP
Polymeric Station Post Insulator**

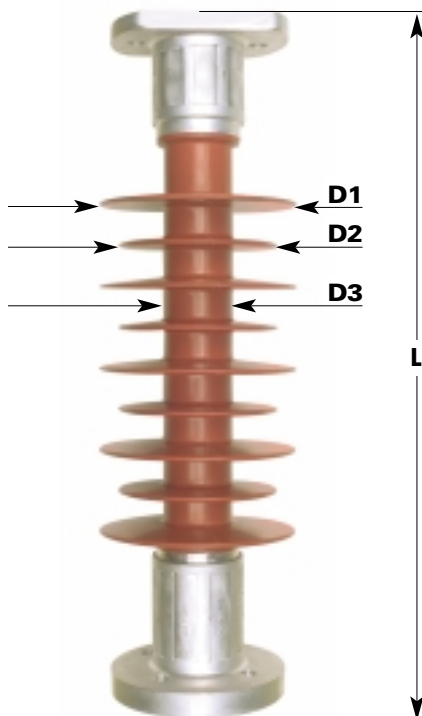
The RAP polymeric station post insulator combines mechanical strength with excellent pollution performance. It consists of a pultruded fibre glass rod and a non-tracking polymer housing which is directly bonded to the metal end fitting. Long-term service experience and laboratory testing have shown the 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	Benefits
Composite design	Lightweight – easy installation and reduced transport costs Vandal and break resistant
EVA housing	High tracking and erosion resistance Excellent performance under polluted conditions Reduced maintenance costs
Direct bonding to end fitting	Ideal moisture barrier – avoids moisture ingress to the fibre glass rod Tailor made design according to customer requirements is possible
Patented crimp technology	Maximum mechanical strength without damaging the fibre glass rod

RAP Polymeric Station Post Insulator



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)
Electrical values in kV				
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
Mechanical values in kN				
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 ³
RAP-36R-A66-350	45 pcs	115 Kg (254 lbs)	0.510 m ³
RAP-46R-A66-460	45 pcs	134 Kg (296 lbs)	0.510 m ³
RAP-52R-A66-475	45 pcs	139 Kg (307 lbs)	0.510 m ³

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)

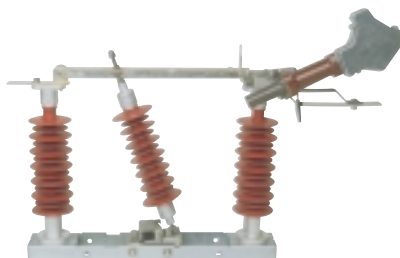
Test Reports

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

RAP - 52R - AM12 - 441 - (*)

Family of Products

kV rating based on creepage required for class III pollution 25 mm/kV

Material & Colour

R = Red EVA

G = Grey EVA

R = Red Silicone

End Fitting Material

A = Aluminium

G = Galvanised

End Fitting Type within this family

M12 = M12 Stub connection

6 = Flange with PCD of 66 mm

73 = Flange with PCD of 73 mm

76 = Flange with PCD of 76 mm

Length: Section length in mm

Supplement Description:

Threaded Bar

End Fitting Information i.e. threads

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. ALR, AMP, AXICOM, B&H, BOWTHORPE EMP, DORMAN SMITH, DULMISON, GURO, HELLSTERN, LA PRAIRIE, MORLYNN, RAYCHEM, and SIMEL are trademarks. CROMPTON is a trademark of Crompton Parkinson Ltd. and is used by Tyco Electronics under licence.



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