

## Energy Division

# RLP Raychem Line Post Insulators (Horizontal Clamp)

The Raychem RLP polymeric line post insulator combines mechanical strength with excellent pollution performance. It consists of a protruded 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 are crimped to the pultruded fibreglass core to allow the transition of mechanical loading to the line and

mounting structure. A patented crimp control technology monitors for damage to the fibreglass 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.

Tyco Electronics Energy Division long-term service experience correlated to laboratory testing has shown outstanding performance of the insulating housing material in all pollution conditions described in IEC 60815.

### Composite design

- Lightweight – easy installation
- Vandal and break resistant
- Impact resistant

### EVA housing

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

### Patented crimp technology

- Maximum mechanical strength without damaging the fibre glass rod.

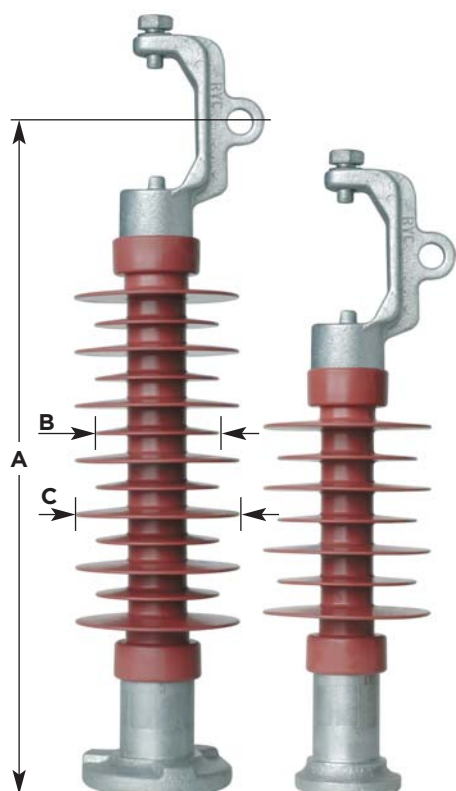
### Direct bonding to end fitting

- Ideal moisture barrier, avoids moisture ingress to the fibre glass rod.

## RLP

## Raychem Line Post Insulators (Horizontal Clamp)

Technical Specification	RLP-19R-HG	RLP-30R-HG	RLP-31R-HG	RLP-36R-HG	RLP-43R-HG
Creepage Distance (mm)	424	697	770	922	1074
Dry Arc Distance (mm)	169	235	260	300	340
No of Sheds	4	7	9	11	13
A (mm)	401	467	511	551	591
B (mm)	100	100	92	92	92
C (mm)	120	120	122	122	122
SCL (kN)	12.5	11.5	12.5	12.5	12.5
MDCL (kN)	5.5	5.5	5.5	5.5	5.5
STL (kN)	25	25	25	25	25
RTL (kN)	12.5	12.5	12.5	12.5	12.5
AC dry flashover voltage (kV)	104	137	150	163	176
AC dry withstand voltage (kV)	95	124	136	146	159
AC wet flashover voltage (kV)	72	91	101	120	129
AC wet withstand voltage (kV)	61	76	81	103	112
Impulse withstand voltage (kV)	137	183	194	219	244



### Product Information

Description	Std Pkg	Pkg Weight	Pkg Volume
RLP-19R-HG-M24NPG-M	45 pcs	177 Kg	0.504m <sup>3</sup>
RLP-30R-HG-M24NPG-M	45 pcs	190 Kg	0.504m <sup>3</sup>
RLP-31R-HG-M24NPG-M	45 pcs	249 Kg	0.504m <sup>3</sup>
RLP-36R-HG-M24NPG-M	45 pcs	258 Kg	0.504m <sup>3</sup>
RLP-43R-HG-M24NPG-M	45 pcs	267 Kg	0.504m <sup>3</sup>

### End Fittings (Galvanised Steel)

The base end fitting is a centre M24 standard fixing hole (IEC 60720), the top fitting is a Horizontal Clamp (IEC 60720). Additional thread options (M22, 3/4" & 7/8") are available on request.

### Applications

The applications are suitable for overhead lines and covered conductors up to a system voltage of 43 kV (IEC 60071-1).

### Qualification

Full qualification according to IEC 61952, and additional environmental testing available;

Product	Test Report
RLP-19R-HG-3/4NPG-M	IPMR_077
RLP-30R-HG-3/4NPG-M	IPMR_078
RLP-31R-HG-3/4NPG-M	IPMR_079
RLP-36R-HG-3/4NPG-M	IPMR_080
RLP-43R-HG-3/4NPG-M	IPMR_081

### Material Data

EPP0727 10/04: A review of Raychem Polyolefin Co-Polymer Outdoor Insulating Polymer Material.

EPP 0728 5/01: Raychem Outdoor Polymer Insulating Material Competency.

### Service Experience

Raychem EVA products have 35+ years of service experience in all environments. Detailed service experience information can be provided on request.

### Full Product Descriptions

RLP-19R-HG-3/4NPG-M  
RLP-30R-HG-3/4NPG-M  
RLP-31R-HG-3/4NPG-M  
RLP-36R-HG-3/4NPG-M  
RLP-43R-HG-3/4NPG-M

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. Raychem, TE Logo and Tyco Electronics are trademarks.

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