

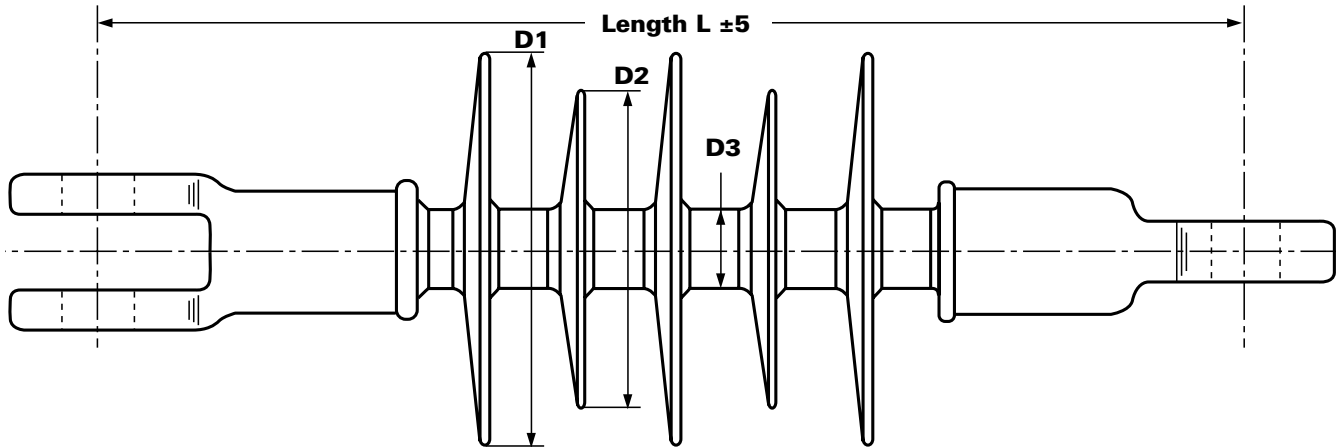
Raychem Suspension Tension Insulators up to 24kV

The high tensile strength of glass fibre has been combined with our HV shedded profile, to produce this rugged, lightweight tension insulator for overhead line applications up to 24kV.

The glass fibre core provides high mechanical strength with tensile values of greater than 70 kN. The Raychem insulator utilises the same materials technology that has been employed for over 30 years in Raychem's high voltage terminations. Its proven track and erosion resistance and UV stability have given outstanding performance in the widest possible range of climatic and pollution conditions. The construction consists of Raychem's compact creepage design insulator profile which has alternating large and small diameter sheds to optimise the pollution flashover performance. It is sealed to a glass fibre rod in a direct injection moulding operation. The remaining interfacial gap is sealed with a tracking and erosion resistant sealant to avoid moisture ingress to the fibre glass rod. The hot dip galvanised steel end fittings are crimped onto the glass fibre core providing high strength corrosion resistant fixing points. A patented crimp control technology prevents damaging the fibre glass rod while achieving maximum mechanical strength.



Typical Application A.C. overhead systems up to 69 kV



Dimensions in mm and given in inches in brackets ()

	RST-DS15 R-CT	RST-DS28 R-CT	RST-DS36 R-CT	RST-DS46 R-CT	RST-DS69 R-CT
Length L	318 (12.5)	425 (16.7)	474 (18.7)	613 (24.1)	759 (29.9)
Dry arc	170 (6.7)	290 (11.42)	348 (13.7)	450 (17.7)	610 (24.01)
Creepage	460 (18.1)	690 (27.1)	900 (35.4)	1300 (51.2)	1810 (72.3)
No. of Sheds	5	7	9	13	18
Diameter D1	102(4.01)	97 (3.8)	112 (4.4)	112 (4.4)	112 (4.4)
Diameter D2	83 (3.27)	78 (3.07)	92 (3.6)	92 (3.6)	92 (3.6)
Diameter D3	22 (0.87)	22 (0.87)	28 (1.1)	28 (1.1)	28 (1.1)

Electrical

Wet AC withstand (kV) (horizontal)	42.1	98	100	130	180
Impulse withstand (kV)	130	226	215	310	350

Mechanical in kN and given in lbs in brackets ()

Specified Mechanical Load SML	75 (16860)	75 (16860)	75 (16860)	75 (16860)	75 (16860)
Routine test load RTL	37.5 (8430)	37.5 (8430)	37.5 (8430)	37.5 (8430)	37.5 (8430)

End fittings:

Top:	Clevis end fitting.
Bottom:	Tongue end fitting.
Material:	Galvanized Steel

The clevis fittings include a 16mm pin. The ball & socket end fittings are as per IEC120-16A. Other end fitting types are available on request.

The descriptions given above describe insulators with clevis and tongue end fittings. Tongue and clevis end fittings can be supplied in any orientation.

These products are also available with ball & socket end fittings e.g. RST-DS15R-BS is a 15kV insulator with ball and socket end fittings.

Product range up to and including 69 kV, pollution class II and III according to IEC815.

Contact us for further information at: insulators@tycoelectronics.com

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, CROMPTON INSTRUMENTS, DORMAN SMITH, DULMISON, GURO, HELLSTERN, LA PRAIRIE, MORLYNN, RAYCHEM, and SIMEL are trademarks.



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