

Raychem Plug In Termination System RPIT
up to 42 kV for Gas-insulated Switchgear
Nominal Current up to 1250 A

Raychem
from TE Connectivity

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Features

- Shielded inline connection for gas insulated switchgears up to 42 kV
- Termination mates interfaces in accordance with EN 50180 and EN 50181 for inline connections
- The contact parts are designed for stranded circular aluminium or copper conductors in accordance with IEC 60228
- The plug in termination system is metal-enclosed, hermetically insulated and suitable for submersion or outdoor use
- Special designs for wind power stations and offshore applications with bronze protection covers

Technical information

TE Connectivity has several decades of experience in the field of hermetically insulated termination systems for medium voltage applications, bringing about the development of technical solutions that are ideal for inline bushings for connection type size 2 (800 A) and size 3 (1250 A) as per EN 50181. Both product series are available for system voltages from 12 kV up to 36 (42) kV.

The connection system incorporates a lamellate contact system which ensures reliable current transmission from the conductor via a central nut. The interfaces between the silicone body of the termination and the cable and/or bushing is kept permanently sealed using a permanent pressure component. This element is housed in the protection cover, which is sealed with heat-shrinkable tubing.

Technical data and test values as per CENELEC HD629.1 S2

Termination	Size 2	Size2	Size 3
Nominal current (A)	800	800	1250
Max. system voltage (kV)	24	42	42
Cross-section (mm ²)	300	185	630
DC withstand voltage 15 min (kV)	76	114	125
AC withstand voltage 5 min (kV)	57	85.5	93.5
Lightning impulse voltage (kV)	125	200	200
Thermal short circuit (kA)	31.5/3 sec	31.5/1 sec	50/5 sec
Dynamic short circuit (kA)	125	125	125

Product overview of plug in termination system RPIT

Type	Size	Nominal current (A)	System voltage (kV)	Cross-section (mm ²)	Diameter over conductor (mm)	Diameter over insulation (mm)
RPIT-321x	2	800	12	95-300	11.0-21.6	19.3-30.4
RPIT-521x	2	800	24	50-300	7.7-21.6	20.2-34.6
RPIT-621x	2	630	36/42	50-185	7.7-16.8	25.2-35.1
RPIT-331x	3	1250	12	240-630	17.8-32.5	26.4-39.6
RPIT-531x	3	1250	24	150-630	13.9-32.5	36.5-45.6
RPIT-631x	3	1250	36/42	95-630	11.0-32.5	28.5-49.2

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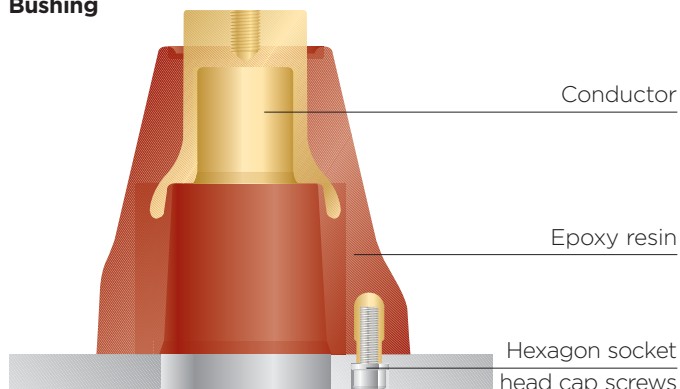
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Bushing



Termination

