



TRANSIENT EARTH CLAMP

Novaris Earth Clamp's provide a means to electrically clamp different earthing systems during disturbances.

In many communications and computer installations, separate earthing systems are specified. There may be regulatory reasons for this, it may be necessary to minimise noise, or for security reasons in defence installations.

Novaris transient earthing products provide a means of electrically clamping different earthing systems together in the event of a transient disturbance. Under these conditions differences in earth potential are a major cause of equipment malfunction and damage.

Transient earthing products find application in computer room installations where signal ground and power ground must be separate; in process control where instrumentation ground and power ground are different;

in communications systems where the telephone earth is separate from the power earth; in defence installations where a separate secure "quiet" earth is required. Insulated joints on gas pipelines can be protected from flashover by the installation of transient earthing products.

Under normal conditions the arrester appears as an open circuit with minimal capacitance so the two earthing systems are truly separate. Should a difference in potential exist between the two earthing systems, the arrester will fire, conduct current and effectively clamp the two earthing systems together.

After the impulse, the arrester will reset and return to its open circuit state. Lifetimes of 10,000 operations are possible if surge ratings are not exceeded.

EC20-y
EC100-y

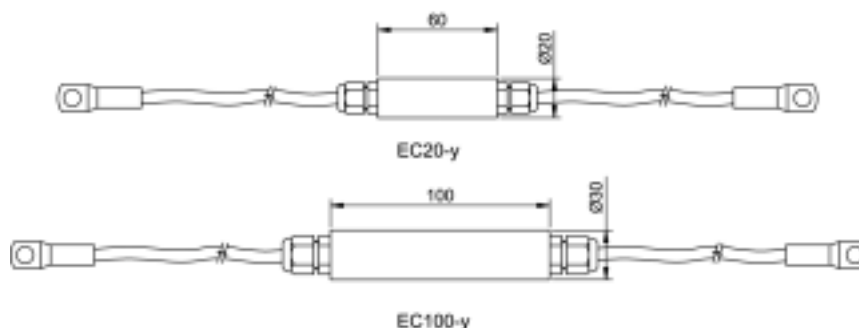
Specifications

Description:	Transient earthing clamp.
Active element:	Gas-filled surge arrester
Clamping Voltage:	230VDC <small>Other voltages available, see ordering options below</small>
Voltage tolerance:	± 20%
Impulse clamping:	<600V (1kV/us)
Insulation resistance:	>10 ¹⁰ ohms
Capacitance:	<4pF
Surge withstand (8/20µs):	
EC20	20kA
EC100	150kA
Termination:	Flying leads
Operating temperature:	-40 to +65°C

Ordering Options

	EC x - y
x = Surge rating:	20, 100
y = DC Sparkover voltage:	90, 230, 350, 600, 1000
	e.g. EC20-350

Dimensions



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