This information is available on the internet at www.hansen-neon.de or www.klinger-neon.de N25E/12/2002
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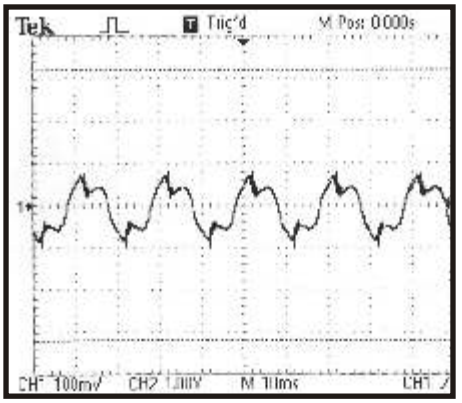
Cable Capacitances - Tube Current

Using long cables from the transformer to the neon tubes results in cable capacitances.

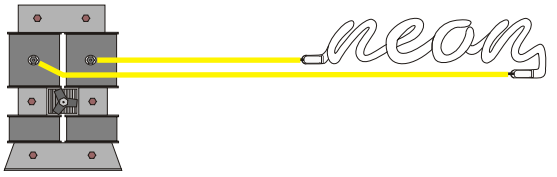
These cables capacities generate current peaks which can damage the electrodes ans cause radio interferences.

Greater capacitances occur when:
- the distance increases
- the cables are installed very close to each other
- earthed cables are used (e.g. NYLRZY)

Tube current in an installation with a short cable connection

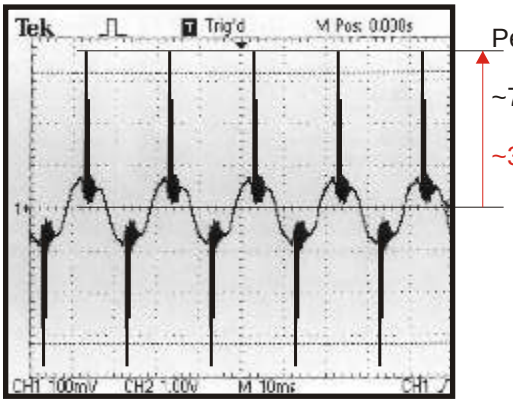


Tube current: 50mA
Transformer: SRM 50mA; 8,000 volts



No current peaks are generated.

Tube current in an installation with 10m NYL cables (installed in parallel)

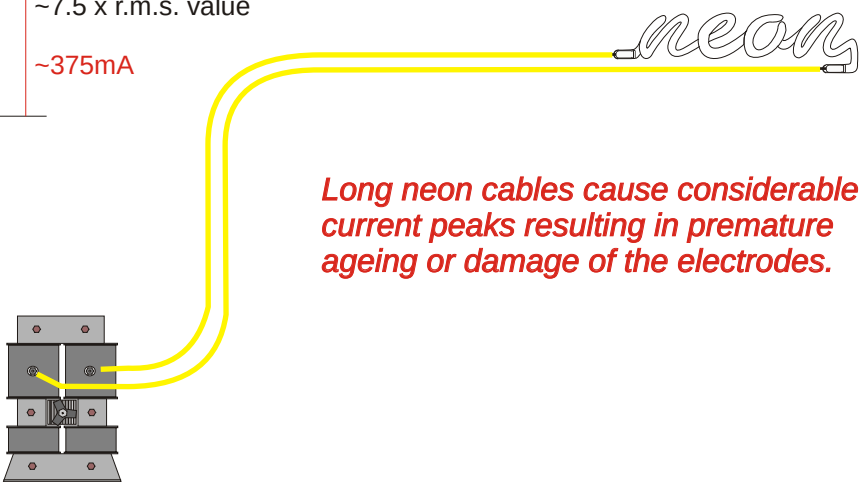


Peak current

~7.5 x r.m.s. value

~375mA

Tube current: 50mA
Transformer: SRM 50mA: 8,000 volts



Long neon cables cause considerable current peaks resulting in premature ageing or damage of the electrodes.