

DisCord Plus

ARCALIAN



DisCord Plus is a unique solution to the removal of static from industrial processes.

Static electricity causes many problems in manufacturing – handling, printing, coating, laminating and other processes can be affected by it, resulting in reject, and costing your company money.

How is it supplied?

DisCord Plus is an elastic, flexible cord, supplied on 10m reels, but stretching to 22m.

How is it used?

DisCord Plus should be either draped in contact with the static-sensitive substrate, or can be mounted approximately 5mm away. In either case, the **DisCord Plus** should be earthed at one end.

As the substrate moves into range, or comes into contact with the **DisCord Plus**, the static is instantly removed, allowing the process to continue, unaffected by the unpredictable effects of static electricity.

How does it work?

DisCord Plus is an induction static eliminator. This means that the natural static field on the substrate surface induces to the many points along the length of the **DisCord Plus**. The static voltage pressure increases at these tiny points, causing efficient ionisation of the air and carrying the charge way from the substrate to ground. It is the voltage that pushes the charge to ionise.

The discharge is controlled and efficient. There is no spark because of the configuration of the points. With conductive wire, there would be uncontrolled discharge to its surface which would ignite solvent vapour. The conductive, microscopic sized points of **DisCord Plus** prevent the voltage level from reaching a high enough potential to discharge and carry the charge to ground much faster than the potential can build.

How effective is it?

The more charge presented, the faster the speed, the easier it ionises to the points. This means that at high levels and high speed, **DisCord Plus** can be further from the web and still be effective.

DisCord Plus has been shown to be more effective than active (powered) corona discharge bars.

How long does it last?

DisCord Plus' useful life depends on how it is mounted. Draped, in contact with a substrate it will eventually dirty and need to be replaced. Its low cost ensures that this can be carried out regularly, as part of Preventative Maintenance. Off contact, it remains effective almost indefinitely.

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