

Introduction to flat tape, solid circular and cable & wire systems

When designing a structural lightning protection system using the Faraday Cage principle, it is possible to use one or more of a variety of available conductor systems; namely flat tape, solid circular or cable/wire. The decision about which type to use is often based more on country-specific historical preferences or aesthetic considerations than the superiority of one type over another.

Furse provides high quality conductors, plus the appropriate fittings, for all three systems.

Flat tape system

Furse manufacture and supply flat tape conductors in copper or aluminium. The flat tape system is easy to install, with no need to straighten the tape for a neat finish. Furse typically provides tape in coils for cost effective transportation and easier handling.

Flat tape conductors can be installed bare or with a PVC covering. Six standard colours are available, with others on request, to enable the tape to blend with modern building fabrics.

Tinned copper tape is available for applications that require additional protection measures.

Copper braid is also available for use where flexibility is necessary, e.g. on moving installations like gates or doors.

In addition, Furse manufacture and supply a complete range of fittings for flat tape conductors, from tape clips and clamps, to bimetallic connectors.



Solid circular system

Solid circular conductors can be used in applications where aesthetic considerations are important. The 8mm diameter solid circular range is less conspicuous than the flat tape system, and lends itself much better to being concealed.

Available in copper or aluminium, solid circular conductors can also have PVC coverings, again to make them less conspicuous. A coil of circular conductor can be quickly installed, being easy to bend in any plane, and only needing a straightening tool to give a very neat finish.

Furse also manufacture a comprehensive range of clamps, bonds and fixings to ease installation in whatever situation.



Cable and wire system

The Furse range of stranded conductors is available only in copper, and complies with the US standard NFPA 780.

The stranded conductor is available bare or PVC insulated.

Furse also provide a practical range of fixings for use with stranded conductors.

