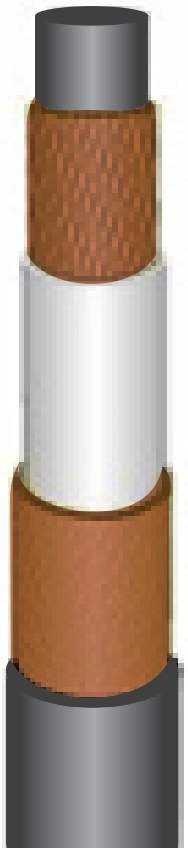

# Low Induction Conductor (LIC)

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Lightning is a high impulse current which generates induction currents. This leads to other electrical cables developing 'surge' currents. This can also result in side flashing as well as electrification of structure. The end result is damage to sensitive electronic equipments as well as danger to human lives.

LIC, as the name suggests, is a low induction cable with low impedance. The LIC is designed for use in buildings / structures where induction currents can damage sensitive equipment/components.

The design of the LIC ensures that the induction current generated due to passage of lightning is minimized. This greatly reduces the risk of 'side flashing'. The design of LIC prevents electrification of structure. Hence, LIC can be safely installed in building ducts having electrical cables.

Impulse currents are generated when lightning passes through a conductor. The unique design of LIC cable ensures safety of sensitive equipment / components. The LIC has seven layers. The inner core is an insulating material, followed by a concentric copper conductor wrapped around the inner core. The third layer is a binding tape followed by a layer of insulation. The fifth layer is a copper screen followed by a binding tape and the final layer is the outer sheath.

The nominal cross section area of the concentric conductor is 50 sq.mm. The outer diameter of LIC is 37 mm. approximately with nominal sheath thickness of 3mm. LIC weighs around 2.05 kg per meter.

The use of LIC as downconductor in Lightning Protection ensures optimum performance in high impulse conditions. The LIC design ensures that the rise in voltage due to passage of lightning current is greatly reduced. These qualities of LIC make it an ideal downconductor for lightning protection as compared to conventional copper tape or cable.

The LIC cable complies with IEC 60-1:1989 and IEC 600601, 2nd Edition, 1989-11.


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