

ECO.101 Data Cables

Sterlite ECO.101 Data Cables are a revolutionary concept in structured cabling, as the cables are devoid of halogen elements.

Introduction

Cabling infrastructure has established itself as a vital component of an enterprise's IT strategy. The threat of wireless taking the sheen off wired infrastructure is no longer real as the cabling needs of the enterprises are increasing year after year. Further new areas of structured cable deployment have emerged with the need for high-speed internet by retail and realty sectors. The challenge on hand: Sterlite has a strong focus on research and product development, complimented by inhouse domain expertise to provide unique solutions, whilst keeping its focus on sustainable development. The Company took on the 'ECO.101 Challenge' to develop a data transmission cable solution that is manufactured through judicious use of scarce natural resources, does not pollute the environment during manufacture / disposal and is non-hazardous to users.

Sterlite's solution

Sterlite's assessment indicated that sheathing and cable packaging were critical factors in meeting the challenge.

The cables are packed on reels that are enclosed within a disposable corrugated cardboard cartons. Recycling of PVC sheath is quite difficult due to plasticizers and stabilizing additives within the compound. PVC compound disposed in landfills takes decades to degrade. Disposal by incineration releases environmental and toxic pollutants due to halogen content. After evaluating several options covering all three major aspects for environment protection (Reduce, Reuse and Recycle), Low Smoke Zero Halogen (LSZH) sheathing was found as the most suitable eco-friendly and non-hazardous alternative to traditional PVC sheathing material.

Additionally, cables with LSZH sheathing were found to have advanced abrasion resistance, good mechanical properties, long-term performance reliability, excellent flame retarding properties,

low smoke generation on combustion.

The finished cables are traditionally packed using Reelex / Reel and Corrugated box as enclosure which all uses wood as basic component. Disposal of such packing material becomes very tough task after installation of the cable at site and poses serious concern to environment. Sterlite unique packing solution offers cable in the form of coils covered with suitable plastic film wrap. A detachable cable pay-off stand is provided with each consignment to facilitate cable laying. This detachable Cable pay-off can be used multiple times cable laying purpose in field and enables very smooth payoff while laying.

A truly eco-friendly solution: Sterlite ECO.101 Data Cables are a revolutionary concept in structured cabling. As the cables are devoid of halogen elements, they pose no health hazard, are eco-friendly and use minimal, fully recyclable packaging.

