

Technical Note

The Use of Cable Ties



Title: TN12
Author: Paul Cave
Date: May 2012

This item covers the user of Cable Ties for securing data cables to both horizontal and vertical pathways. Crushing of 4 pair data cables can seriously inhibit the performance of the installed structured cabling installation.

It has become common practice over the years to dress cables into bundles relating to the panels they have originated from using cable Ties. However there is nothing within any of the standards that actually calls for this practice and the only reference is in EN 50174-1 A2 2011 which states.

'Instructions for the storage, installation and operation of the cabling components shall be obtained from manufacturers or suppliers including:'

This statement therefore clearly puts the emphasis on the Manufacturers Installation Guidelines which can be found on the Excel Networking Website.

http://www.excel-networking.com/_assets/downloads/Exc_Installation_Guide.pdf

This states the following conditions:

- Hook and eye cable fixings are preferred.
- If nylon type zip ties are used, excess lengths must be cut-off flush to avoid leaving sharp edges.
- Do not over tighten.
- No deformation, marking or compression of cable jacket is allowed.

Note:

In the case of long vertical backbone runs it is sometimes advisable to use a combination of Hook & Loop as well as Metal Cable ties at regular intervals to provide sufficient support of the cables.

This Technical Note has been produced by Paul Cave, Technical Manager – Infrastructure, on behalf of Excel

Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

www.excel-networking.com

