

**IEC 61156-5**  
(Second edition – 2009)

**Multicore and symmetrical pair/quad cables for digital communications – Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz – Horizontal floor wiring – Sectional specification**

**C O R R I G E N D U M 1**

**6 Characteristics and requirements**

**6.2 Electrical characteristics and tests**

*Add the following note:*

NOTE For cat7<sub>A</sub>, unless the test is performed with very sensitive test equipment, it is recommended to limit the cable length to 50 m for a better accuracy in high frequencies.

**6.3.6 Far-end crosstalk (*FEXT*)**

**Table 7 – Worst-pair *PS EL FEXT*(1) values**

*In the *PS EL FEXT*(1) column for Category 7, instead of:*

“92,3”

*read :*

“91”.

**6.3.10 Impedance**

*Replace the existing text of 6.3.10 by the following. There is no change to Figure 1.*

The impedance requirement is specified by either case A or case B below as specified in the relevant detail specification.

Case A (Fitted or mean characteristic impedance):

The impedance measured in accordance with 6.3.10.2 or 6.3.10.3 of IEC 61156-1 shall be  $100 \Omega \pm 5 \Omega$  at 100 MHz. In this case, the return loss shall also be measured.

Case B (Characteristic impedance):

The impedance measured in accordance with 6.3.10.1.1 of IEC 61156-1 shall fall within the impedance template limits given in Figure 1. The relevant template limits are derived using Equation (8) and Equation (9) for the corresponding cable category, frequency range and return loss requirement given in Table 10.

Cables that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements given in 6.3.11 are not required to be measured for characteristic impedance.

The upper impedance limit,  $Z_u$  of the template is given by Equation (8),