

ISO/IEC 11801  
(Second edition – 2002)  
Amendment 1 (2008)

Information technology –  
Generic cabling for customer premises

**CORRIGENDUM 1**

Page 22 of Amendment 1

Replace the existing Table 17 by the following new Table 17:

**Table 17 – Propagation delay for channel**

Class	Frequency MHz	Maximum propagation delay $\mu\text{s}$
A	$f = 0,1$	20,000
B	$0,1 \leq f \leq 1$	5,000
C, D, E, E <sub>A</sub> , F, F <sub>A</sub>	$1 \leq f \leq \text{NOTE}$	$0,534 + 0,036/\sqrt{f} + 4 \times 0,0025$
NOTE The equation for propagation delay applies to the upper frequency of the class.		

Page 24 of Amendment 1

**6.4.14.4 Coupling attenuation**

Move the existing third paragraph from before Table 22 to after Table 22:

It is possible to assess coupling attenuation by laboratory measurements of representative samples of channels assembled using their component and connector termination practices.

Page 25 of Amendment 1

**6.4.15.1 General**

Replace the existing second paragraph by the following new second paragraph:

If coupling attenuation for Class E<sub>A</sub> or F channels is 10 dB better than Table 22 or for Class F<sub>A</sub> channels is 25 dB better than Table 22, then the requirements of 6.4.15 are met by design.

**6.4.15.2 Power sum alien NEXT (PS ANEXT)**

Replace the last identifier by the following identifier:

$ANEXT_{i,i,k}$  is the alien near-end crosstalk loss coupled from pair  $i$  of disturbing channel ( $\Delta$ ) to the pair  $k$  of the disturbed channel.

Page 26 of Amendment 1

**Table 23 – PS ANEXT for channel**

Replace the last line of footnote <sup>b</sup> by the following line:

$IL_{100\text{MHz},i}$  is the insertion loss of a pair  $i$  at 100 MHz.

**6.4.15.5 PS AFEXT for Class E<sub>A</sub> channels**

Replace the fourth identifier for equation 9 by the following identifier:

$AFEXT_{l,i,k}$  is the alien far-end crosstalk loss coupled from pair  $i$  of disturbing channel ( $l$ ) to the pair  $k$  of the disturbed channel;

Replace the last identifier for equation 9 by the following identifier:

$IL_{l,i}$  is the measured insertion loss of pair  $i$  of disturbing channel  $l$ .

**6.4.15.6 PS AFEXT for Class F<sub>A</sub> channels**

Replace the last identifier by the following identifier:

$AFEXT_{l,i,k}$  is the alien far-end crosstalk loss coupled from pair  $i$  of disturbing channel ( $l$ ) to the pair  $k$  of the disturbed channel.

**6.4.15.7 PS AACR-F for Class E<sub>A</sub> and Class F<sub>A</sub> channels**

Change the following from font size 9 to font size 10:

The PS AACR-F requirements shall be met at both ends of the channel.

$PS AFEXT_k$  is the power sum alien far-end crosstalk loss coupled to pair  $k$ .

Replace the existing Table 27 by the following new Table 27:

**Table 27 – PS AACR-F for channel**

Class	Frequency MHz	Minimum PS AACR-F <sup>a, b</sup> dB
E <sub>A</sub>	$1 \leq f \leq 500$	$77 - 20 \lg(f)$
F <sub>A</sub>	$1 \leq f \leq 1\,000$	$92 - 20 \lg(f)$
<sup>a</sup> PS AACR-F at frequencies that correspond to calculated values of greater than 67,0 dB shall revert to a minimum requirement of 67,0 dB. <sup>b</sup> PS AACR-F at frequencies that correspond to calculated PS AFEXT values of greater than 67,0 dB or $102 - 15 \cdot \lg(f)$ dB shall be for information only.		

Replace the existing Table 28 by the following new Table 28:

**Table 28 – Informative PS AACR-F values for channel at key frequencies**

Frequency MHz	Minimum PS AACR-F dB	
	Class E <sub>A</sub>	Class F <sub>A</sub>
1	67,0	67,0
100	37,0	52,0
250	29,0	44,0
500	23,0	38,0
1 000	N/A	32,0

Replace the existing Table 29 by the following new Table 29:

**Table 29 – PS AACR- $F_{avg}$  for channel**

Class	Frequency MHz	Minimum PS AACR- $F_{avg}$ <sup>a, b, c</sup> dB
E <sub>A</sub>	$1 \leq f \leq 500$	$81 - 20 \lg(f)$
<p><sup>a</sup> PS AACR-<math>F_{avg}</math> at frequencies that correspond to calculated values of greater than 67,0 dB shall revert to a minimum requirement of 67,0 dB.</p> <p><sup>b</sup> PS AACR-<math>F_{avg}</math> at frequencies that correspond to PS AFEXT values of greater than 67,0 dB or <math>102 - 15 \cdot \lg(f)</math> dB shall be for information only.</p> <p><sup>c</sup> The PS AACR-<math>F_{avg}</math> limit for Class F<sub>A</sub> channels is equal to PS AACR-F specified in Table 27.</p>		

Replace the existing Table 30 by the following new Table 30:

**Table 30 – Informative PS AACR- $F_{avg}$  values for channel at key frequencies**

Frequency MHz	Minimum Class E <sub>A</sub> PS AACR- $F_{avg}$ dB
1	67,0
100	41,0
250	33,0
500	27,0

### 7.2.2.1 Component choice

Replace the text for the last two bullets by the following:

- Category 6<sub>A</sub> components (under consideration) provide Class E<sub>A</sub> balanced cabling performance
- Category 7<sub>A</sub> components (under consideration) provide Class F<sub>A</sub> balanced cabling performance

Replace the existing Table 31 by the following new Table 31: