



DRAFT AMENDMENT ISO/IEC 11801:1995/DAM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ELECTROTECHNIQUE INTERNATIONALE

Information technology — Generic cabling for customer premises

AMENDMENT 1

Technologies de l'information — Câblage générique des locaux du client

AMENDEMENT 1

ICS 35.200

Descriptors: data processing, information interchange, telecommunications, buildings, premises, communication cables, cabling, specifications, performance, verification.

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CHANGES to ISO/IEC 11801 1st edition

DAM 1.1 to the ISO/IEC 11801

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Subclause 5.5 Telecommunications outlets

Replace 3rd paragraph with:

A minimum of one TO served by 100 Ω or 120 Ω cable shall be provided at each work area¹⁾ (100 Ω preferred). Other TOs shall be supported by either balanced cable or by fibre optical cable²⁾. In the horizontal cabling, at least one TO shall be configured as specified in item b of 6.1.3 (balanced or optical fibre cable) or at least one TO shall be served by either class D or optical class, as identified in 7.1.1. When a TO is supported by balanced cable, 2 pairs³⁾ or 4 pairs shall be provided at each TO; all pairs shall be terminated. If less than four pairs are provided, the outlet shall be clearly marked⁴⁾. Emerging balanced cable applications may be limited by differential delay of pairs that serve a single telecommunications outlet. See clause 9 for TO specifications that correspond to each of the cables listed above.

replace footnotes with:

- 1) When the greatest flexibility is desired, four pair or two quad cable should be used (see Annex G).
- 2) When the largest bandwidth is desired the use of OF is recommended.
- 3) Installation of 2 pairs not capable of forming class D links may limit the applications supported.
- 4) See annex G for number and performance of pairs needed for different applications and their pin assignment.

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Subclause 7.2.1 Characteristic impedance

Replace first paragraph with:

The nominal characteristic impedance of a link shall be 100 Ω , 120 Ω , or 150 Ω at frequencies between 1 MHz and the highest specified frequency for the cabling class.

Delete second paragraph:

~~The tolerance of the characteristic impedance in a given link shall not exceed the chosen nominal impedance by more than $\pm 15\Omega$ (f.f.s.) from 1 MHz up to the highest specified frequency for that class.~~

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Subclause 7.2.1

Replace second paragraph with:

The characteristic impedance of cabling links should be achieved by suitable design, and the appropriate choice of cables and connecting hardware.

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Subclause 7.2.2 Return loss

Replace first paragraph with:

The return loss of the cabling, measured at any interface, shall meet or exceed the values shown in table 3. Terminations that are matched to the nominal impedance of the cabling (in particular 100 Ω, 120 Ω or 150 Ω), shall be connected to cabling elements under test at the remote end of the link.

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Replace table 3 with:

Table 3 - Minimum return loss at each cabling interface

Frequency MHz	Minimum return loss dB	
	Class C	Class D
$1 \leq f < 10$	18	18
$10 \leq f < 16$	15	15
$16 \leq f < 20$	N/A	15
$20 \leq f \leq 100$	N/A	10

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Subclause 8.1 General requirements for 100 Ω and 120 Ω balanced cabling

Replace line 1.14 in Table 15 with the following:

Cable characteristics	Units	Subsystem	Test method
.....
1.14	Fire Rating	According to IEC1156 unless otherwise requested by local regulation.	As applicable .
.....

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Subclause 8.2 General requirements for 150 Ω balanced cabling

Replace line 1.15 in Table 20 with the following:

Cable characteristics	Units	Requirement	Test method
.....
.....
1.15	Fire Rating	According to IEC1156 unless otherwise requested by local regulation.	As applicable .