



AMENDMENT

ETS 300 290

A1

November 1995

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**This amendment A1 modifies
the European Telecommunication Standard ETS 300 290 (1994)**

**Business TeleCommunications (BTC);
64 kbit/s digital unrestricted leased line
with octet integrity (D64U);
Terminal equipment interface**

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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Foreword

This amendment to ETS 300 290 (1994) has been produced by the Business TeleCommunications (BTC) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This amendment changes ETS 300 290 (1994) as described below:

The connector type specified, conforming to ISO/IEC 10173 (1991), cannot be manufactured. Since a standardized connector is not available, the terminal equipment is required to provide either a point for connection of solid conductors, or solid conductors themselves. In order to allow connection to be made using other methods, the TE is permitted to be supplied with other connection schemes (e.g. connectors).

A note is added to subclause 5.2.1.3 on output timing stating that additional sources of timing are allowed.

Transposition dates	
Date of adoption of this amendment:	31 October 1995
Date of latest announcement of this amendment (doa):	31 January 1996
Date of latest publication or endorsement of this amendment (dop/e):	31 July 1996
Date of withdrawal of any conflicting National Standard (dow):	31 July 1996

Amendments

Page 7, amendment to clause 2

Delete reference [6].

Page 9, amendment to subclause 5.1

Replace subclause 5.1 with subclauses 5.1, 5.1.1 and 5.1.2 as given below:

"5.1 Physical characteristics

Currently no standardized connector is readily available. Consequently, the only method of connection that can be specified in this ETS is the use of solid conductors of 0,4 to 0,6 mm. This ETS requires the TE to be capable of presenting either a point for the attachment of unterminated solid conductors, or solid conductors themselves (see subclause 5.1.1). It is a requirement that such a connection method be available to be provided for use with the TE if necessary.

In order to allow connection to be made using other methods (e.g. connectors), the TE is permitted to be supplied with a connection method suitable for use with those methods (see subclause 5.1.2).

NOTE 1: The following are examples of arrangements that comply with the requirements. The list below should not be regarded as an exhaustive list of all permitted arrangements:

- a) a cord, permanently connected to the terminal equipment at one end and unterminated at the other end, with wires that are solid conductors with diameters in the range 0,4 to 0,6 mm;
- b) a cord, connected via a plug and socket to the terminal equipment at one end and unterminated at the other end, with wires that are solid conductors with diameters in the range 0,4 to 0,6 mm;
- c) an insulation displacement connector, designed to accept wires with solid conductors with diameters in the range 0,4 to 0,6 mm, but with no cord;
- d) a screw connector, designed to accept wires with solid conductors with diameters in the range 0,4 to 0,6 mm, but with no cord;
- e) the arrangement in b) plus one or more additional alternative cords with the same plug or socket arrangement at the terminal end and any plug or socket at the other end;
- f) the arrangement in c) or d) plus one or more cords suitable for connection to the terminal equipment at one end and any plug or socket at the other end.

The transmit pair is the output from the terminal equipment interface. The receive pair is the input to the terminal equipment interface, as shown in figure 1. Where the terms "output" and "input" are used without qualification in this ETS, they refer to the terminal equipment interface.

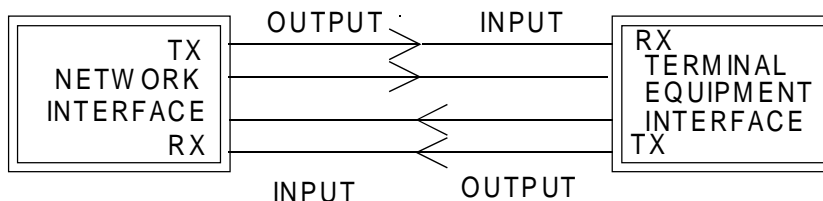


Figure 1

NOTE 2: The use of a shielded cord or cable may be necessary to meet radiation and immunity requirements defined in Electro-Magnetic Compatibility (EMC) standards.

5.1.1 Hardwired connection

Requirement: The terminal equipment shall provide:

- a) a set of connection contacts (e.g. an insulation displacement connector or a screw terminal block) to which solid wire conductors with diameters in the range 0,4 to 0,6 mm may be connected; or
- b) a wiring arrangement connected by any means to the terminal equipment, with unterminated solid wire conductors with diameters in the range 0,4 to 0,6 mm at the end distant from the terminal equipment.

Test: There is no test. All subsequent tests are carried out via the specified connection method.

5.1.2 Alternative means of connection

Any alternative means of connection may be provided in addition to the connection arrangements under subclause 5.1.1.

Page 11, amendment to subclause 5.2.1.3, item b)

Add the following note after item b):

"NOTE: Additional sources of timing, e.g. an internal clock, are not precluded by the above requirement."

Page 18, amendment to subclause A.1.2, first paragraph

Delete the first sentence:

"The tests shall normally be applied at the plug for connection to the NTP."

and replace with:

"The tests in this ETS shall be carried out using the connection method suitable for use with unterminated solid conductors as defined in subclause 5.1.1".

Page 18, amendment to subclause A.1.2, note

Delete "the normal plug and cord" and replace with "additional wiring".

Delete "5.1" and replace with "5.1.2".

History

Document history	
January 1994	First Edition
June 1995	Unified Approval Procedure UAP 30: 1995-06-05 to 1995-09-29
November 1995	Amendment 1 to 1st Edition
March 1996	Converted into Adobe Acrobat Portable Document Format (PDF)
Note:	The references to the changed pages refer to an old presentation. The clause numbering has not changed.