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**Information technology —
Telecommunications and information
exchange between systems — Interface
connector and contact assignments for
ISDN Basic Access Interface located at
reference points S and T**

*Technologies de l'information — Télécommunications et échange
d'informations entre systèmes — Connecteur d'interface et affectation
des contacts pour l'interface d'accès de base au RNIS située aux points
de référence S et T*



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Foreword

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

International Standard ISO/IEC 8877 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

This second edition cancels and replaces the first edition ISO 8877:1987 and ISO 8877:Amd.1:1991.

Annexes A, B, C and D of this International Standard are for information only.

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Information technology — Telecommunications and information exchange between systems — Interface connector and contact assignments for ISDN Basic Access Interface located at reference points S and T

1 Scope

This International Standard specifies the 8-pole connector (plug and jack) and the assignments of poles/contacts for use in physical interfaces of Integrated Services Digital Network (ISDN) basic access arrangements. These physical interfaces may be located at reference points S and T between TEs and NTs and between NT1s and NT2s and shall conform to CCITT Recommendation I.430.

This International Standard also specifies the requirements for ISDN basic access cords for use with TEs that conform with Recommendation I.430, where the specification of the TE calls for the use of such a cord.

CCITT Recommendation I.430 requires plugs and jacks on equipment connecting cords and interface cables as shown in figure 2/I.430 of that Recommendation (also see annex A).

For the purpose of this International Standard, when viewed from an NT1, an NT2 may be considered to be a TE.

NOTE – This International Standard specifies connector dimensions but only those to ensure mateability of the plug and jack. Complete detailed specifications of the plugs and jacks and all other dimensions are specified in IEC 603-7 (see annex D)

2 Normative references

The following International Standards and CCITT Recommendations contain certain provisions that, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All International Standards and CCITT Recommendations are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the Standards/Recommendations indicated below. Members of international standards bodies maintain registers of currently valid International Standards and CCITT Recommendations.

CCITT Recommendation I.411:1988, *ISDN user – network interface – Reference configurations*

CCITT Recommendation I.420:1988, *Basic user–network interface*

CCITT Recommendation I.430 :1988, *Basic user–network interface – Layer 1 specification*

NOTE – Section 8.9 of the above Recommendation is reproduced for information as annex C to this International Standard.

3 Definitions

For the purposes of this International Standard the following definitions apply:

3.1 pole: A position for a contact

3.2 contact: The electrical contact element which, for many connections, is referred to as a "pin".

3.3 plug and jack: The male and female connector parts, respectively.

Examples of interface cabling configurations are given in annex A.

4 Connector

Eight-pole connectors are specified for the interconnection of TEs and NTs. One plug and jack pair is used for the interconnection of TEs and NTs. One plug and jack pair is used to connect the TE connecting cord to the interface cable (at interface point I_A in CCITT Recommendation I.430, figure 2/I.430) and a second connector is used (optionally) to connect the NT connecting cord to the interface cable (at interface point I_B in CCITT Recommendation I.430, figure 2/I.430). Interface cabling may have a passive bus or a point-to-point configuration. (Both configurations are illustrated in annex A.)

NOTE The interface cable may be directly connected to an NT or, where the NT is a multi-port device, e.g., a PABX, the connection to the NT may involve a large connector which accommodates multiple interfaces

TE and NT connecting cords shall be terminated in plugs. Figure 1 illustrates the cord-terminating plug which provides for 4, 6 or 8 contacts. The number of physical contacts provided or required is dependent