TECHNICAL REPORT

IEC TR 62225

First edition
2001-11

Guidance on terms for connectors and mechanical structures in electronic equipment

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International Electrotechnical Commission 3, rue de Varembé Geneva, Switzerland
Telefax: +41 22 919 0300 e-mail: inmail@iec.ch IEC web site http://www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

GUIDANCE ON TERMS FOR CONNECTORS AND MECHANICAL STRUCTURES IN ELECTRONIC EQUIPMENT

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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IEC 62225, which is a technical report, has been prepared by technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
48/433/DTR	48/436/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

This document, which is purely informative, is not to be regarded as an International Standard.

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The committee has decided that the contents of this publication will remain unchanged until 2003. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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GUIDANCE ON TERMS FOR CONNECTORS AND MECHANICAL STRUCTURES IN ELECTRONIC EQUIPMENT

1 Scope

The content of this list of terms is based on the terminology which is primarily used in the IEC publications under the responsibility of IEC TC 48. This technical report is not meant to be considered as a vocabulary nor as a glossary of terms in the sense of ISO/DIS 1087-1 and is not formatted in the same way.

This technical report offers project leaders the listed terms as a preferred selection for use in new publications. By applying these preferred terms, the clause containing terms and definitions that form part of most standards can be shortened significantly.

The listed terms are collected from standards, already published, and projects which have reached the CDV stage.

The terms that have been published in IEC 60050-581 are listed "for information". Modifications are allowed if necessary, in order to better suit the purpose of new publications. The listing also includes terms published in other chapter(s) of the IEV, when the term(s) have been used in TC 48 documents.

NOTE The terms as published by the IEV are not always in conformance with ISO/IEC Directives Part 2 – 2000, C.1.5.3. In this document, words like 'a' or 'the' have been deleted wherever possible, without indicating that the IEV was "modified".

At the end of their maintenance cycle, it is recommended to revise published documents where applicable using these preferred terms.

For easy use, the terms are given in alphabetical order, with the title, description and additional information about the source, status and recommendations:

- Description: where applicable, a note is added to clarify.
- Source: the publication or project in which the term has been used.
- Status: the following status types (in alphabetical order) have been used:
  - **Deprecated** an IEV term, which has been replaced by a better term.
  - **Draft** the term forms part of a document, which is currently in preparation.
  - **Modified** the listed term deviates from a published term.
  - **Obsolete** the published term is no longer in use.
  - **Published** the term has been published in an IEC document.
  - **Superseded** the term has been superseded by another published term.
  - **Unique** fully new term that has not been used in any document.
- Apply: recommendation to the author of a new or a revised standard.

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2 Reference documents

IEC 60050-151, *International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices*

IEC 60050-581, *International Electrotechnical Vocabulary – Chapter 581: Electromechanical components for electronic equipment*

IEC 60050-826, *International Electrotechnical Vocabulary – Chapter 826: Electrical installations of buildings*

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60309-1, *Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements*

IEC 60352-2, *Solderless connections – Part 2: Solderless crimped connections – General requirements, test methods and practical guidance*

IEC 60352-3, *Solderless connections – Part 3: Solderless accessible insulation displacement connections – General requirements, test methods and practical guidance*

IEC 60352-4, *Solderless connections – Part 4: Solderless non-accessible insulation displacement connections – General requirements, test methods and practical guidance*

IEC 60352-7, *Solderless connections – Part 7: Spring clamp connections – General requirements, test methods and practical guidance* [1]

IEC 60512-3, *Electromechanical components for electronic equipment – Basic testing procedures and measuring methods – Part 3: Current-carrying capacity tests*

IEC 60512-4, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 4: Dynamic stress tests*

IEC 60664-1, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 60917-1, *Modular order for the development of mechanical structures for electronic equipment practices – Part 1: Generic standard*

IEC 60917-2, *Modular order for the development of mechanical structures for electronic equipment practices – Part 2: Sectional specification – Interface co-ordination dimensions for the 25 mm equipment practice*

IEC 60917-2-2, *Modular order for the development of mechanical structures for electronic equipment practices – Part 2: Sectional specification – Interface co-ordination dimensions for the 25 mm equipment practice – Section 2: Detail specification – Dimensions for subracks, chassis, backplanes, front panels and plug-in units*

IEC 60999-1, *Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm^2 up to 35 mm^2 (included)*

IEC 61076-1, *Connectors with assessed quality, for use in d.c., low frequency analogue and in digital high speed data applications – Part 1: Generic specification*

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[1] To be published.

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IEC 61076-4-101, *Connectors for electronic equipment – Part 4-101: Printed board connectors with assessed quality – Detail specification for two-part connector modules having a basic grid of 2,0 mm for printed boards and backplanes in accordance with IEC 60917*

IEC 61076-4-104, *Connectors for use in d.c., low frequency analogue and digital high speed data applications – Part 4-104: Printed board connectors with assessed quality – Detail specification for two-part modular connectors, basic grid of 2,0 mm, with terminations on a multiple grid of 0,5 mm*

IEC 61076-4-108, *Connectors for electronic equipment – Part 4-108: Printed board connectors with assessed quality – Detail specification for cable-to-board connectors, with a modular pitch of 25 mm and integrated shielding function, applicable for transverse packing density of 15 mm, having a basic grid of 2,5 mm, in accordance with IEC 60917* [1]

IEC 61984, *Connectors – Safety requirements and tests*

3 Terms and definitions

Numerical

180° polarisation
housing parts of the fixed and free connector have a 180° polarisation to prevent incorrect insertion

Source: IEC 61076-4-108 Status: draft
Apply: no, use 'polarization'

NOTE The term 'polarization' includes 180° polarization.

A

above-chassis mounted
component with its mounting flange in front of the mounting surface when looking at the mating face or front side of the component
Source: IEV 581-04-02 Status: deprecated
Apply: no, use 'front mounted'

accessible insulation displacement connection
insulation displacement (ID) connection in which it is possible to access test points for carrying out mechanical tests and electrical measurements without deactivation of any design feature intended to establish and/or maintain the ID connection
Source: IEC 60352-3 and IEC 60352-4 (modified) Status: published
Apply: yes

accessory
any associated item which does not form part of a basic component
Source: IEV 581-05-01 Status: published
Apply: yes

adaptor
intermediate device to provide for attachments such as special accessories, special mounting means or special interconnecting means
Source: IEV 581-05-02 Status: published
Apply: yes

[1] To be published.

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alternative insert position
orientation achieved by rotating insert in circular connectors
Source: IEV 581-03-32 Status: published
Apply: yes

aperture dimension
special co-ordination dimension for a useable space between features (structural parts)
NOTE An actual inside dimension of an aperture can only increase.
Source: IEC 60917-1 and IEC 60917-2 (modified) Status: published
Apply: yes

apparent diameter of a stranded conductor
diameter of the circumscribing circle of the bundle of strands
Source: IEV 581-03-51 Status: published
Apply: yes

B

back plane
interconnection plane in the base of a mechanical structure
Source: IEV 581-06-41 Status: published
Apply: no, use '**backplane**'

backplane
mounting plane of connectors and printed board for the electrical interlink
Source: IEC 60917-1/A1 Status: published
Apply: yes

back-mounted
a component with its mounting flange behind the mounting surface when looking at the mating face or front side of the component
Source: IEV 581-04-01 Status: published
Apply: yes

barrier seal
seal provided through the connector between housing and insert and contacts to inhibit the ingress of contaminants
Source: IEV 581-08-14 Status: published
Apply: yes

base pitch (*p*)
smallest distance between adjacent grid lines
NOTE Used in the equipment practices.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

basic insulation
insulation applied to live parts to provide protection against electric shock
Source: IEC 60664-1 (modified) Status: published
Apply: yes

basic test schedule
schedule of minimum type tests
Source: IEC 61076-1 Status: published
Apply: yes

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bayonet coupling
quick coupling device for mating connectors utilizing projections riding in ramps and providing jacking and locking features with limited rotation
Source: IEV 581-07-16 Status: published
Apply: yes

beam
specially shaped metallic part of an insulation displacement termination on each side of the connection slot or the strain relief slot
Source: IEV 581-02-27 Status: published
Apply: yes

below-chassis mounted
component with its mounting flange behind the mounting surface when looking at the mating face or front side of the component
Source: IEV 581-04-01 Status: deprecated
Apply: no, use 'back-mounted'

bifurcated contact
flat contact with a lengthwise slot, the two arms of which apply contact force in the same direction
Source: IEV 581-02-02 Status: published
Apply: yes

blade contact
solid contact with a rectangular cross-section, usually with a chamfered mating edge
Source: IEV 581-02-03 Status: published
Apply: yes

board-mounted connector
connector suitable for being permanently attached to a printed board
Source: IEV 581-06-03 Status: obsolete
Apply: no, use 'fixed board connector'

boot
accessory usually of a flexible material, designed to be placed around the terminations of a component as a protective housing
Source: IEV 581-05-03 Status: published
Apply: yes

bound connection
electrical connection between a wire and a sharp-cornered post in which the wire is laid parallel to the length of the post and adjacent to its wider face
NOTE The wire is secured to the post by tightly wrapping several turns of a separated solid wire around the post and the wire to be secured; each turn of the wrapping wire contacts the bound connection producing deformation in it and locks on at least two corners of the post.
Source: IEV 581-03-02 (modified) Status: published
Apply: yes

bound twin-post connection
hybrid type of connection formed when two rectangular sharp-cornered posts are positioned with their wider faces in contact and secured by tightly wrapping several turns of solid wire around them
Source: IEV 581-03-08 Status: published
Apply: yes

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break-away connector
connector designed to separate when a specified force is applied to the cable, without damage to the cable or the connector
Source: IEV 581-06-24 Status: published
Apply: yes

breaking capacity
value of current which the connector with breaking capacity can make and brake under specified conditions
Source: IEC 61984 Status: published
Apply: yes

butting connector
connector in which connection is achieved between non-penetrating contacts and maintained by axial pressure
Source: IEV 581-06-04 Status: published
Apply: yes

C

cabinet
free-standing and self-supporting enclosure for housing electrical and/or electronic equipment
NOTE It is usually fitted with doors and/or side panels, which may or may not be removable.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

cabinet panel
design part of an enclosure as protection against incident touch and environmental influences
Source: IEC 60917/A1 Status: published
Apply: yes

cable adaptor
part of a connector or an accessory consisting of a rigid housing for attachment to the connector body
NOTE It may incorporate provision for a cable clamp or seal for terminating screens and provide shielding to electrical interference; it may be straight or angled.
Source: IEV 581-09-01 (modified) Status: published
Apply: no, use 'cable outlet'

cable clamp
accessory or part of a component which grips the cable or wire to provide strain relief and absorb mechanical stress which would otherwise be transmitted to the termination
Source: IEV 581-09-03 (modified) Status: published
Apply: yes

cable outlet
part of a connector or an accessory consisting of a rigid housing for attachment to the connector body
NOTE It may incorporate provision for a cable clamp or seal for terminating screens and provide shielding to electrical interference; it may be straight or angled.
Source: IEV 581-09-01 (modified) Status: published
Apply: yes

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cable screen clamp
cable clamp to terminate the cable screen
Source: IEV 581-09-04 Status: published
Apply: yes

cable seal
device designed to seal a jacketed cable to a component
Source: IEV 581-08-15 Status: published
Apply: yes

cable shielding clamp
cable clamp to terminate the cable screen
Source: IEV 581-09-04 Status: published
Apply: no, use 'cable screen clamp'

cable support sleeve
flexible accessory or a part of a component placed around the cable to minimize flexing of the cable at the point of entry into the component
Source: IEV 581-07-34 Status: published
Apply: yes

case
table, bench or wall-mounting enclosure in which electrical and/or electronic equipment can be housed
Source: IEC 60917-1 Status: published
Apply: yes

centre shield
metal screen located centrally in a socket to provide electrical screening between opposite contacts
Source: IEV 581-07-31 Status: published
Apply: yes

chassis
mechanical structure designed specifically to support associated electrical and electronic components
Source: IEC 60917-1 Status: published
Apply: yes

chess pattern
contact arrangement where the loaded and the unloaded positions alternate in rows and columns, like fields on a chess-board.
Source: IEC 61076-4-101 Status: published
Apply: yes

circular connector
connector which is basically cylindrical and has a mating face with a basically circular periphery
Source: IEV 581-06-05 Status: published
Apply: yes

clamping unit
part(s) of the terminal necessary for the mechanical clamping and the electrical connection of the conductor(s), including the parts which are necessary to ensure the correct contact pressure
Source: IEC 61984 and IEC 60999-1 Status: published
Apply: yes

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clearance
shortest distance in air between two conductive parts
Source: IEC 60664-1 Status: published
Apply: yes

climatic category
short form indication of the basic requirements which an electromechanical component should meet
Source: IEC 60068-1 Status: published
Apply: yes

clip
resilient device which deflects on mating to produce a connection
Source: IEV 581-02-24 Status: published
Apply: yes

clip connection
connection made by a clip
Source: IEV 581-03-37 Status: published
Apply: yes

clip post
termination to accept a clip connection
Source: IEV 581-02-25 Status: published
Apply: yes

closed crimp barrel
crimp barrel with a closed shape before crimping
Source: IEV 581-03-58 Status: published
Apply: yes

coding devices
accessories allowing the user to make specific pairs of connectors by providing them with matching coding devices
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes

coding key
device which engages with a keyway which, when mounted, prevents the improper mating (engagement) of the connector halves at a distance less than the specified minimum contact range
Source: IEC 61076-4-104 Status: published
Apply: yes

compatible connectors
two connectors are compatible, when they are intermountable, and/or intermateable or interchangeable
Source: IEV 581-09-05 (modified) Status: published
Apply: yes, see also IEC 61076-1/A2

compliant press-in termination
press-in termination having a compliant press-in zone
Source: IEV 581-03-41 Status: published
Apply: yes

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concentric contact
assembly of two contacts arranged coaxially enabling the view of engaging face connection of coaxial, shielded or twisted pair cables
NOTE This definition, rather than that of IEV 581-02-04, should be used.

Source: IEC 61076-6 Status: draft
Apply: yes

concentric contact
set of coaxial contacts providing independent circuits through a single mechanical assembly
NOTE The definition given in IEC 61076-6 should be used rather than the one given in IEV 581-02-04.

Source: IEV 581-02-04 Status: published
Apply: no, use 'concentric contact'

conductor barrel
section of a terminal end or splice which accommodates the conductor
Source: IEV 581-03-35 Status: published
Apply: yes

conductor pull-out force
force required to destroy a termination by separating a conductor from its terminal end by exerting an axial pull
Source: IEV 581-03-16 Status: published
Apply: yes

conductor tensile force
force required to destroy a termination by separating a conductor from its terminal end by exerting an axial pull
Source: IEV 581-03-16 Status: published
Apply: no, use 'conductor pull-out force'

conductor tensile strength
in preparation

conduit adaptor
accessory to secure a connector to a conduit
Source: IEV 581-09-02 Status: published
Apply: yes

connection
physical interface between conductors and/or contacts to provide an electrical path
Source: IEV 581-03-01 Status: published
Apply: yes

connection slot
specially shaped opening of an insulation displacement termination suitable to displace the insulation of a wire and to ensure a gas-tight connection between the termination and the conductor(s) of the wire
Source: IEC 60352-3, IEC 60352-4, IEV 581-02-28 (modified)
Apply: yes Status: published

connector
component which terminates conductors for the purpose of providing connection and disconnection to a suitable mating component
Source: IEV 581-06-01 Status: published
Apply: yes

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connector adaptor
fixed or free component to permit electrical connection(s) between two or more connectors where direct connection is mechanically impossible
Source: IEV 581-06-02 (modified) Status: published
Apply: yes

connector body
connector less its contacts
Source: IEV 581-07-10 Status: published
Apply: yes

connector for class II equipment
connector where the protection against indirect contact is realized by double or reinforced insulation
NOTE Class II according to IEC 61140
Source: IEC 61968 Status: draft
Apply: yes

connector front
side of a connector which is the mating face
Source: IEV 581-08-01 Status: published
Apply: yes

connector housing
part of a connector into which the insert and contacts are assembled
Source: IEV 581-07-11 Status: published
Apply: yes

connector insert
insulating element designed to support and position contacts in a connector housing
Source: IEV 581-07-12 Status: published
Apply: yes

connector interface
two surfaces of mating connectors which face each other when mated
Source: IEV 581-08-10 Status: published
Apply: yes

connector mated set
particular combination of mating connectors
Source: IEV 581-06-38 Status: published
Apply: yes

connector mating and unmating force
force required to engage fully or separate a pair of mating components including the effect of a coupling, locking or similar device
Source: IEV 581-08-08 Status: deprecated
Apply: no, use 'engaging and separating force'

connector module
part containing all features of a complete connector which can be mounted in lengthwise series to form a connector with a larger number of contact positions
Source: IEC 61076-4-104 Status: published
Apply: yes

connector pair
particular combination of mating connectors
Source: IEV 581-06-38 Status: deprecated
Apply: no, use 'connector mated set'

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connector rear
wiring side of a connector
Source: IEV 581-08-02 Status: published
Apply: yes

connector-shell
part of a connector into which the insert and contacts are assembled
Source: IEV 581-07-11 Status: deprecated
Apply: no, use 'connector housing'

connector shield
cable outlet specifically designed to terminate the cable braid and provide shielding to electromagnetic interference
Source: IEV 581-07-13 Status: published
Apply: yes

connector style
particular connector within a type, e.g. rectangular, flange-mounting
Source: IEV 581-08-04 Status: published
Apply: yes

connector sub-family
group of connectors recognizable by their basic shape or intended application, e.g.: circular connectors, printed board connectors, etc.
Source: IEC 61076-1 (modified) Status: published
Apply: yes

connector type
connector within a particular sub-family, e.g. edge-socket connector, a mated set comprising a board-mounted connector and its counterpart, etc.
Source: IEV 581-08-05 Status: published
Apply: yes

connector variant
variation within a connector type and style or within a group of related connectors, e.g. number of contacts, polarization, terminations, etc.
Source: IEV 581-08-06 Status: published
Apply: yes

connector with breaking capacity
connector specially designed to be engaged or disengaged in normal use when live or under load
NOTE The abbreviation CBC is often used.
Source: IEC 61984 (modified) Status: published
Apply: yes

console
table-mounted or floor-standing enclosure having horizontal, vertical and/or sloping faces to accommodate control, information and monitoring equipment
Source: IEC 60917-1 Status: published
Apply: yes

contact
conductive element in a component which mates with a corresponding element to provide an electrical path
Source: IEV 581-02-01 Status: published
Apply: yes

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contact active area
part of the contact which allows current to pass between the contact and another element; a contact comprises a dynamic active zone and a static active zone (termination)
Source: IEC 61076-6 Status: draft
Apply: No, use '**contact area**'

contact area
area in contact between two mated contacts, two conductors or a conductor and a contact, which provides an electrical path
Source: IEV 581-02-16 Status: published
Apply: yes

contact arrangement
number, spacing and configuration of contacts in a component
Source: IEV 581-08-03 Status: published
Apply: yes

contact barrier seal
seal provided at the interface to prevent the ingress of moisture or contaminants across a set of connectors when mated
Source: IEV 581-08-16 Status: deprecated
Apply: no, use 'interfacial seal'

contact engaging or separating force
force required to fully insert or withdraw a set of mating components without the effect of a coupling, locking or similar device
Source: IEV 581-08-09 Status: deprecated
Apply: no, use 'insertion and withdrawal force'

contact extraction force
axial force required to extract a removal contact from a component
Source: IEV 581-03-18 Status: published
Apply: yes

contact float
permitted free movement of a contact in a component
Source: IEV 581-02-17 Status: published
Apply: yes

contact force
normal force (90°) which exists between engaged contact surfaces
Source: IEV 581-03-17 Status: published
Apply: yes

contact inspection hole
hole provided in the conductor barrel to permit visual inspection of conductor position
Source: IEV 581-07-07 Status: deprecated
Apply: no, use 'crimp inspection hole'

contact lead-in
chamfered or flared portion of a female contact or insert to facilitate insertion of a male contact
Source: IEV 581-07-09 Status: published
Apply: yes

contact level
group of contacts which engage/separate simultaneously, within the limits required by a secure engaging sequence
Source: IEC 61076-4-101 Status: published
Apply: yes

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contact levels
contacts may be provided with different mating lengths, which feature different points of mating per specified contact length
Source: IEC 61076-4-104 Status: published
Apply: no, use 'contact level'

contact range
minimum to maximum distance between the reference planes of the fixed and free connectors, within which the specified contact resistance is met
Source: IEC 61076-4-104 Status: published
Apply: yes

contact resistance
the electrical resistance of a mated set of contacts under specified conditions
Source: IEV 581-03-11 Status: published
Apply: yes

contact retainer
a device either on the contact or in the connector insert to retain the contact (in the insulation)
Source: IEV 581-08-13 Status: published
Apply: yes

contact sequence
sequence in which contacts with a different mating length are mating, with the purpose to provide stepped insertion forces and/or stepped electrical continuity
NOTE e.g. first make/last break.
Source: IEC 61076-4-104 (modified) Status: published
Apply: yes

contact size
designation used to differentiate one contact from another
NOTE It may be denoted by one of the following systems:
a) numbering system: assigned numbers used to denote the size of the contact and its related conductor accommodation,
b) current rating system: the related current-carrying capacity is used to denote the size of the contact,
c) cross-sectional area system: reference is made to the cross-sectional area of the maximum conductor accommodation to denote the size of the contact.
Source: IEV 581-07-08 (modified) Status: published
Apply: yes

contact wire range
sizes of conductors accommodated by a particular conductor barrel (see also contact size)
Source: IEV 581-07-14 Status: published
Apply: yes

conventional wrapped connection
solderless connection achieved by wrapping a solid conductor around a wrap post without any contact of the wire insulation to the post
Source: IEV 581-03-45 Status: published
Apply: yes

co-ordination dimension
reference dimension used to co-ordinate mechanical interfaces
NOTE This is not a manufacturing dimension with a tolerance.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

coupling ring
cylindrical device used for coupling and uncoupling mating connectors
Source: IEV 581-07-20 Status: published
Apply: yes

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coupling torque
force needed to rotate a coupling ring or jackscrew to fully engage a mating set of connectors
Source: IEV 581-08-20 Status: published
Apply: yes

creepage distance
shortest distance along the surface of the insulating material between two conductive parts
Source: IEV 151-03-37 Status: published
Apply: yes

crimp
connection made by crimping
Source: IEV 581-03-13 Status: obsolete
Apply: no, use 'crimped connection'

crimp anvil
part of a crimping tool which supports the conductor barrel or ferrule during crimping
Source: IEV 581-05-06 Status: published
Apply: yes

crimp barrel
conductor barrel designed to accommodate one or more conductors and to be crimped by means of a crimping tool
Source: IEV 581-03-56 Status: published
Apply: yes

crimp connection
connection made by crimping
Source: IEV 581-03-03 Status: superseded
Apply: no, use 'crimped connection'

crimp contact
contact having a conductor barrel designed to be crimped
Source: IEV 581-02-05 Status: published
Apply: yes

crimp indentor
part of a crimping tool which intends or compresses the conductor barrel or ferrule
Source: IEV 581-05-07 Status: published
Apply: yes

crimp inspection hole
a hole provided in the conductor barrel to permit visual inspection of conductor position
Source: IEV 581-07-07 Status: published
Apply: yes

crimped connection
solderless connection made by crimping
Source: IEV 581-03-03 (modified) Status: published
Apply: yes

crimping
method of permanently attaching a termination to a conductor by pressure deformation or by reshaping the barrel around the conductor to establish good electrical and mechanical connection
Source: IEV 581-03-14 Status: published
Apply: yes

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crimping die
part of a crimping tool which forms the crimp(s) and usually incorporates the crimp anvil(s), the crimp indentor(s) and the positioner
Source: IEV 581-05-19 (modified) and IEC 60352-2 Status: published
Apply: yes

crimping tool
mechanical device used to make a crimp
Source: IEV 581-05-13 Status: published
Apply: yes

crimping zone
part of a crimp barrel where the crimped connection is achieved by pressure deformation or reshaping the barrel around the conductor
Source: IEV 581-03-66 Status: published
Apply: yes

cycle of mechanical operation
one insertion and one withdrawal of the connector halves
Source: IEC 61984 Status: published
Apply: yes

D

dip-solder contact
contact with a termination intended to be bath-soldered
Source: IEV 581-02-06 Status: published
Apply: yes

door
hinged cabinet panel, typically incorporating latching and/or locking devices
Source: IEC 60917-1/A1 Status: published
Apply: yes

double insulation
insulation comprising both basic insulation and supplementary insulation.
Source: IEC 60664-1 Status: published
Apply: yes

dust cover
cover used in storage and transit
Source: IEV 581-05-05 Status: published
Apply: yes

E

earthing connector
connector designed to provide a low resistance connection to earth
Source: IEV 581-06-06 Status: published
Apply: yes

edge-board connector
connector into which the edge of a printed board is inserted to make contact directly to edge-board contacts
Source: IEV 581-06-07 Status: deprecated
Apply: no, use 'edge-socket connector'

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edge-socket connector
connector into which the edge of a printed board is inserted to make contact directly to edge-board contacts
Source: IEV 581-06-07 Status: published
Apply: yes

effective post length
length of contact between the press-in section of a press-in termination and the metal plating of the plated-through hole in a printed board in which the press-in termination is inserted
Source: IEV 581-03-62 (modified) Status: published
Apply: no, use 'effective press-in length'

effective press-in length
length of contact between the press-in zone of a press-in termination and the metal plating of the plated-through hole in a printed board in which the press-in termination is inserted
Source: IEV 581-03-62 Status: published
Apply: yes

effective wrapping length
portion of a wrap post suitable and available for the application of the wrapped connection for which the requirements are fixed
Source: IEV 581-03-60 Status: published
Apply: yes

electrical engagement length
distance a contact travels on the surface of its mating contact during engagement or separation
Source: IEV 581-03-15 Status: published
Apply: yes

end tail
final portion of the last turn of wire in a wrapped connection which extends beyond the last corner of contact
Source: IEV 581-03-54 Status: published
Apply: yes

engagement indicators
marks which indicate when a connector is fully engaged
Source: IEV 581-08-07 Status: published
Apply: yes

engaging sequence
distinct order in the engaging/separating process of contacts belonging to different contact levels
Source: IEC 61076-4-101 Status: published
Apply: yes

engaging or separating force
force required to engage fully or separate a pair of mating components including the effect of a coupling, locking or similar device
Source: IEV 581-08-08 Status: published
Apply: yes

engaging range
minimum to maximum distance between the reference planes of the fixed and free connectors, within which reliable contact making is guaranteed
Source: IEC 61076-4-108 Status: draft
Apply: no, use 'contact range'

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environment resistant connector
connector provided with means for protection against moisture, temperature or contaminants
Source: IEV 581-06-08 Status: published
Apply: yes

equipment practice
mechanical structure involved in housing and mounting of electronic and electromechanical systems
NOTE It provides for compatibility between mechanical parts, electrical interconnections and electronic components.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

explosion-containing component
component which is capable of containing an internal explosion without causing an explosion in a surrounding specified explosive environment
Source: IEV 581-01-01 Status: published
Apply: yes

explosion-proof component
component which is capable of normal operation within a specified explosive environment and will not cause an explosion when it is operated, mated or unmated while under load
Source: IEV 581-01-02 Status: published
Apply: yes

extraction tool
device for extracting removable contacts from a component
Source: IEV 581-05-14 Status: published
Apply: yes

F

female contact
contact intended to make electrical engagement on its inner surface and which will accept entry of a male contact
Source: IEV 581-02-07 Status: published
Apply: yes

female concentric contact
concentric contact where the outer contact is female, the central contact(s) may be male or female
Source: IEC 61076-6 Status: draft
Apply: yes

female triaxial contact
triaxial contact where the outer contact is female, the central contact(s) may be male or female
Source: IEC 61076-6 Status: draft
Apply: yes

ferrule
accessory in the form of a short tube to provide cable support or termination for a cable screen.
Source: IEV 581-07-21 Status: published
Apply: yes

filler plug
accessory used to fill grommet cavities in a connector
Source: IEV 581-07-27 Status: published
Apply: yes

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filter contact
contact with filter to discriminate against certain frequencies
Source: IEV 581-02-08 Status: published
Apply: yes

fireproof connector
connector capable of withstanding flame of a specified temperature for a specified time
Source: IEV 581-06-09 Status: published
Apply: yes

first make/last break contacts
contacts which provide different contact levels and sequencing

NOTE So that during connector module engaging (insertion), at least one contact of the higher level shall connect before any contact of a lower contact level; whilst during connector module disengaging (withdrawal), at least one contact of the higher level will not disconnect before any contact of a lower contact level.
Source: IEC 61076-4-104 (modified) Status: published
Apply: yes

first possible contact point
depth dimension of the first point on the female contact, which can possibly be touched by the incoming male contact
Source: IEC 61076-4-101 Status: published
Apply: yes

first reliable contact point
depth dimension of the female contact from where reliable electrical measurements with the incoming male contact can be taken
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes, in modified form

fixed connector
connector for attachment to a rigid surface
Source: IEV 581-06-10 Status: published
Apply: yes

fixed board connector
connector mounted on a mother board or backplane, for engagement with a free cable connector and/or a free board connector
Source: IEV 581-06-39 Status: published
Apply: yes

fixing studs
posts, which form a part of the plastic housing of the connector, which fit into corresponding holes in the printed board to provide mechanical attachment to the board

NOTE Which, for example, may be deformed by applying a heated toolhead.
Source: IEC 61076-4-104 (modified) Status: published
Apply: yes

float mounting
mounting method permitting movement to facilitate alignment of two mating components
Source: IEV 581-04-07 Status: published
Apply: yes

float mounting connector
fixed connector with mounting means permitting movement to facilitate alignment with the mating connector
Source: IEV 581-06-11 Status: published
Apply: yes

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flow-solder contact
contact with a termination intended to be bath-soldered
Source: IEV 581-02-06 Status: deprecated
Apply: no, use 'dip-solder contact'

free connector
connector for attachment to the free end of a wire or cable
Source: IEV 581-06-12 Status: published
Apply: yes

free board connector
connector mounted on a printed board which can be separated from a mother board or back-plane
Source: IEV 581-06-40 Status: published
Apply: yes

free cable connector
connector for attachment to a free end of the wire or cable
Source: IEV 581-06-12 Status: published
Apply: yes

free coupler connector
connector that mates with a free connector in a cable-to-cable application
Source: IEV 581-06-13 Status: published
Apply: yes

front-mounted
component with its mounting flange in front of the mounting surface when looking at the mating face or front side of the component
Source: IEV 581-04-02 Status: published
Apply: yes

front panel
panel in general allocated to the vertical mounting area of racks and cabinets
Source: IEC 60917-1/A1 (modified) Status: published
Apply: yes

front-release contact
removable contact in which release is effected from the mating face
Source: IEV 581-07-01 Status: published
Apply: yes

full cycle crimp mechanism
feature of a crimping tool that prevents the tool from returning to the open position before the crimping operation has been completed
Source: IEV 581-03-28 (modified) Status: published
Apply: yes

full test schedule
test schedule which includes type, routine, and sampling tests
Source: IEC 61076-1 Status: published
Apply: yes

functional insulation
insulation between conductive parts which is necessary only for the proper functioning of the equipment
Source: IEC 60664-1 Status: published
Apply: yes

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G

gas-tight area
part of the contact area that is not affected by gases under specified conditions
Source: IEV 581-03-64 Status: published
Apply: yes

gasket seating seal
seal provided between the housing to prevent the ingress of moisture and contaminants into the interior of connectors when mated
Source: IEV 581-08-18 Status: deprecated
Apply: no, use 'housing seal'

grid
right angular arrangement of theoretical lines of equal dimensions
Source: IEC 60917-1/A1 Status: published
Apply: yes

grommet
part of a component or an accessory used to support and protect the wires or cable at the point of entry. It may also prevent the ingress of moisture or contaminants
Source: IEV 581-07-22 Status: published
Apply: yes

grommet ferrule
part of a component or an accessory used to compress the grommet and/or reduce the transmission of torque to the grommet
Source: IEV 581-07-24 Status: published
Apply: yes, but ' grommet follower' may also be used

grommet follower
part of a component or an accessory used to compress the grommet and/or reduce the transmission of torque to the grommet
Source: IEV 581-07-24 Status: published
Apply: yes, but 'grommet ferrule' may also be used

grommet nut
part of a component or an accessory used to retain the grommet or grommet follower
Source: IEV 581-07-25 (modified) Status: published
Apply: yes

grommet wire range
range of diameters of wire insulation accommodated by a grommet
Source: IEV 581-07-23 Status: published
Apply: yes

grounding connector
connector designed to provide a low resistance connection to earth
Source: IEV 581-06-06 Status: deprecated
Apply: no, use 'earthing connector'

grounding row
contact row of a connector, always connected to zero volts, and used only to contact optional shielding frames
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes

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grounding rows
contact rows z and f of the fixed board connector, always being connected to zero volts, and only being used to contact the optional shielding frames
Source: IEC 61076-4-101 (modified) Status: published
Apply: no, use 'grounding row'

guide pin
pin, rod or projection extending beyond the mating face of a component designed to guide the mating of the component to ensure proper alignment of the contacts
Source: IEV 581-07-26 Status: published
Apply: yes

guiding block
specially shaped part of a component, which guides or inserts the wire(s) into the slot(s).
Source: IEV 581-02-26 Status: published
Apply: yes

H

hermaphroditic connector
connector which mates with an identical connector
Source: IEV 581-06-14 Status: published
Apply: yes

hermaphroditic contact
contact which is intended to mate with an identical contact
Source: IEV 581-07-03 Status: published
Apply: yes

hermetic connector
connector having a hermetic seal
Source: IEV 581-06-15 Status: published
Apply: yes

hermetic seal
seal for which the specified rate of leakage is several orders smaller than that of a barrier seal
Source: IEV 581-03-19 (modified) Status: published
Apply: yes

hoop stress
tension in the wire induced by the wrapping operation and maintained by the wire being locked on the corners of the post
Source: IEV 581-03-50 Status: published
Apply: yes

housing seal
seal provided between the housing to prevent the ingress of moisture and contaminants into the interior of connectors when mated
Source: IEV 581-08-18 Status: published
Apply: yes

I

impulse withstand voltage
highest peak value of impulse voltage of prescribed form and polarity which does not cause breakdown of the insulation under specified conditions
Source: IEC 60664-1 Status: published
Apply: yes

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insertion tool
device used to insert contacts into a component
Source: IEV 581-05-15 Status: published
Apply: yes

insertion or withdrawal force
force required to fully insert or withdraw a set of mating components without the effect of a coupling, locking or similar device
Source: IEV 581-08-09 Status: published
Apply: yes

insulation barrel
part of a terminal end which accommodates but does not secure the cable insulation
Source: IEV 581-02-20 Status: deprecated
Apply: no, use 'insulation support'

insulation barrier
raised or recessed configuration of the insulator to increase creepage distance between conducting surfaces
Source: IEV 581-02-18 Status: published
Apply: yes

insulation coordination
mutual correlation of insulation characteristics of electrical equipment taking into account the expected micro-environment and other influencing stresses
Source: IEC 60664-1 Status: published
Apply: yes

insulation displacement connection
solderless electrical connection made by inserting a single wire into a precisely controlled slot in a termination such that the sides of the slot displace the insulation and deform the conductor of a solid wire or strands of stranded wire to produce a gas-tight connection
NOTE Abbreviation IDC is often used.
Source: IEC 60352-3, IEC 60352-4 and IEV 581-03-43 (modified)
Status: published
Apply: yes

insulation displacement termination
termination designed to accept a wire for the purpose of establishing an insulation displacement connection
Source: IEV 581-03-47 Status: published
Apply: yes

insulation grip
part of a terminal end in which the cable insulation is secured
Source: IEV 581-02-19 Status: published
Apply: yes

insulation piercing connection
solderless connection made by suitable piercing elements, which pierce the insulation and provide contact by deforming or penetrating the conductor.
Source: IEV 581-03-42 Status: published
Apply: yes

insulation piercing termination
termination to accept different types of insulated conductors for the purpose of establishing an insulation piercing connection
Source: IEV 581-03-63 Status: published
Apply: yes

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insulation piercing zone
portion of the contact designed and intended to effect the piercing of the insulation and provide contact with the conductor
Source: IEV 581-03-53 Status: published
Apply: yes

insulation support
part of a terminal end which accommodates but does not secure the cable insulation
Source: IEV 581-02-20 Status: published
Apply: yes

intended use
application conditions of connectors which are included within the permissible rated values and intended environmental conditions and characteristics, assigned by the detail specification (DS) or the manufacturer
Source: IEC 61984 Status: published
Apply: yes

interchangeable
a component is interchangeable when all elements guaranteeing compliance of electrical, mechanical and climatic performance of mated connectors when individual connector halves are from different sources
Source: IEC 61076-1/A2 Status: published
Apply: yes

interchangeable
a component is interchangeable when it meets the original performance specifications and is intermountable

NOTE In the case of connectors, interchangeability applies only to connector mated sets, since individual connectors are not necessarily intermateable.
Source: IEV 581-04-03 (modified) Status: published
Apply: no, use 'interchangeable', sourced from IEC 61076-1/A2

interfacial seal
seal provided at the interface to prevent the ingress of moisture or contaminants across a set of connectors when mated
Source: IEV 581-08-16 Status: published
Apply: yes

interlock
device, either electrical or mechanical, which prevents the contacts of a connector from becoming live before it is in proper engagement with its counterpart, and which either prevents the connector from being withdrawn while its contacts are live or makes the contacts dead before separation
Source: IEC 60309-1(modified) and IEC 61984 Status: published
Apply: yes

intermateable
two components are intermateable when they feature identical dimensions for electrical and dimensional interfaces
Source: IEC 61076-1/A2 (modified) Status: published
Apply: yes

intermateable connectors
two connectors are intermateable when they are capable of being connected electrically and mechanically but without regard to their performance and intermountability
Source: IEV 581-04-04 Status: published
Apply: no, use 'intermateable'

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intermediate test schedule
full test schedule from which entire groups of tests, and/or those tests and/or conditionings that are not necessary, have been omitted
Source: IEC 61076-1 Status: published
Apply: yes

intermountable
two components are intermountable when their overall dimensions, dimensions on printed board or panel cut-out, and cable termination are identical
Source: IEC 61076-1/A2 Status: published
Apply: yes

intermountable
two components are intermountable when their mechanical mounting parameters are identical without regard to intermateability or interchangeability
Source: IEV 581-04-05 Status: published
Apply: No, use 'intermountable', sourced from IEC 61076-1/A2

internal insulation
part of basic insulation providing the required clearance and creepage distances on the inside of a conducting housing or enclosure
Source: IEC 61984 Status: published
Apply: yes

J

jack
connector to mate with a telephone plug
Source: IEV 581-06-34 Status: published
Apply: yes

jack-screw system
a device comprising a set of captive screws and nuts used to couple and uncouple mating components. It may also provide a polarization facility
Source: IEV 581-08-11 Status: published
Apply: yes

jam-nut mounting
method of mounting a component which has a shoulder and a captivating device, through a single hole in a panel
Source: IEV 581-04-06 Status: deprecated
Apply: no, use 'single hole mounting'

K

key
projection which engages with a keyway to guide a component during mating
Source: IEV 581-02-21 Status: published
Apply: yes

keyway
slot or groove in which a key engages
Source: IEV 581-02-22 Status: published
Apply: yes

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L

lanyard disconnect connector
quick-disconnect connector designed to separate when a specified force is applied to the coupling device through a lanyard, without damage to the connector
Source: IEV 581-06-28 Status: published
Apply: yes

live
live component, connector or contact, connected to its mating component during normal use under mechanical tension, during which a voltage is applied
Source: IEC 61984 (modified) Status: published
Apply: yes

load
a component is under load when during normal use a current is flowing through the connection
Source: IEC 61984 Status: published
Apply: yes

location pegs
posts, protruding from the connector housing, fitting into corresponding holes in the printed board or the backplane, preventing a wrong assembly, and giving an accurate position and additional attachment
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes

locator of a crimping tool
a device for positioning a terminal end in a crimping tool
Source: IEV 581-05-08 Status: published
Apply: yes

locking device
a feature incorporated in certain components to provide mechanical retention of their mating part
Source: IEV 581-03-27 Status: published
Apply: yes

lower limiting temperature
minimum temperature of a connector as defined by the climatic category, assigned by the manufacturer in which a connector is intended to operate
NOTE The abbreviation LLT is often used.
Source: IEC 61984 Status: published
Apply: yes

lower shield
part of a socket for electrical and mechanical connection to the tube or shield
NOTE It usually performs also the function of a saddle. In certain cases it is used for the conduction of heat (see also skirt).
Source: IEV 581-07-33 (modified) Status: published
Apply: yes

M

macro-environment
environment of the room or other location in which the equipment is installed or used
Source: IEC 60664-1 Status: published
Apply: yes

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main contact
specific contact of a switch to which the external load circuit is connected
Source: IEV 581-02-09 Status: published
Apply: yes

male contact
contact intended to make electrical engagement on its outer surface and which will enter a female contact
Source: IEV 581-02-10 Status: published
Apply: yes

male concentric contact
concentric contact where the outer contact is male, the central contact(s) may be male or female
Source: IEC 61076-6 (modified) Status: draft
Apply: yes

male triaxial contact
triaxial contact where the outer contact is male, the central contact(s) may be male or female
Source: IEC 61076-6 (modified) Status: draft
Apply: yes

micro-environment
immediate environment of the insulation which particularly influences the dimensioning of the creepage distances
Source: IEC 60664-1 Status: published
Apply: yes

modified wrapped connection
solderless connection achieved by wrapping a solid conductor around a wrap post with the wire insulation wrapped around at least three corners of the post
Source: IEV 581-03-44 Status: published
Apply: yes

modular order
set of rules which establishes a relationship between co-ordination dimensions and the base pitch, multiple pitches and mounting pitches
NOTE To be used in equipment practices.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

module
three-dimensional structure where all sides are multiples of whole numbers of the pitch, complying with the modular order
NOTE 1 It could also be used in a two-dimensional grid.
NOTE 2 A one-dimensional module is often called unit (U) in some documentation.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

mother-daughter board connector
board-mounted connector designed for interconnection of printed boards
Source: IEV 581-06-16 Status: obsolete
Apply: no, use 'fixed board connector' or 'free board connector'

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mounting code
special marks on the connector housings
NOTE They simplify the correct installation of fixed male connectors or male connector bodies and contact equipment in the case of fixed cable connectors.
Source: IEC 61076-4-108 (modified) Status: draft
Apply: yes

mounting flange
a projection from a component for the purpose of attaching the component to a rigid surface
Source: IEV 581-02-23 Status: published
Apply:

mounting frame
in general a frame design of profiles for the mounting of electronic and electrical devices. Fixed or movable location within cabinets
Source: IEC 60917-1/A1 Status: published
Apply: yes

mounting pitch (*mp*)
pitch used to arrange parts or assemblies in a given space
NOTE The nominal value of a mounting pitch is achieved by using a base pitch or multiple pitch, multiplied with a specified factor.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

mounting pitch (*mp1)*
mounting pitch for cabinets/racks and subracks, *mp1* = 25 mm
Source: IEC 60917-2-2 Status: published
Apply: yes

mounting pitch (*mp2)*
mounting pitch for subracks and plug-in units, *mp2* = 5 mm
Source: IEC 60917-2-2 Status: published
Apply: yes

mounting pitch (*mp3)*
mounting pitch for subracks and plug-in units, *mp3* = 2,5 mm
Source: IEC 60917-2-2 Status: published
Apply: yes

mounting pitch *(mp4)*
backplane grid and mounting pitch for internal co-ordination of the subrack and plug-in units, *mp4* = 0,5 mm
Source: IEC 60917-2-2 (modified) Status: published
Apply: yes

mounting plate
plate for mounting electronic and electrical devices
NOTE Located for example within cabinets.
Source: IEC 60917-1/A1 (modified) Status: published
Apply: yes

mounting section
compartment of an enclosure for the assembly of interior parts
Source: IEC 60917-1/A1 Status: published
Apply: yes

multimodule
connector module with a multiple length of the smallest module
Source: IEC 61076-4-104 Status: published
Apply: yes

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multiple pitch (*Mp*)
integer multiple of the base pitch
Source: IEC 60917-1 Status: published
Apply: yes

multipurpose centre
area in the connector module, locating most of the mechanical utilities, for example, the extended guiding, the centering, the location pegs, the wall stiffeners, the cavities for the coding devices, and the polarization
NOTE The abbreviation MPC may be used.
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes

N

n
multiplier having integer values of range continuing 1, 2, 3, ...
Source: IEC 60917-1 Status: published
Apply: yes

non-accessible insulation displacement connection
insulation displacement (ID) connection in which it is not possible to access test points for carrying out mechanical tests and some electrical measurements without deactivation of any design feature intended to establish and/or maintain the ID connection, mainly where the ID connection is enclosed in a component
Source: IEC 60352-3 and IEC 60352-4 (modified) Status: published
Apply: yes

non-reusable insulation displacement termination
insulation displacement termination that can be terminated only once
Source: IEV 581-03-49 (modified) Status: published
Apply: yes

non-rewirable
interconnecting component from which a cable or wire (bundle) cannot be separated without making the component permanently useless
Source: Status: unique
Apply: yes

non-rewirable connector
a connector so constructed that the flexible cable cannot be separated from the connector without making it permanently useless
Source: IEC 60309-1 (modified) and IEC 61984 Status: published
Apply: yes

O

odd in 'a' chess pattern
connector, having loaded contacts on odd positions in row a, in a contact arrangement where the loaded and the unloaded positions alternate in rows and columns, like fields on a chess-board.
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes

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open crimp barrel
crimp barrel with an open shape before crimping, e.g. U- or V-shape
Source: IEC 60352-2 and IEV 581-03-57 (modified) Status: published
Apply: yes

orientation
system providing alternative polarization to prevent cross-mating of similar components when, for instance, used on the same equipment
Source: IEV 581-03-30 Status: published
Apply: yes

outlet nut
accessory which secures the cable outlet to the body of the connector
Source: IEV 581-07-38 Status: published
Apply: yes

overvoltage
voltage having a peak value exceeding the corresponding peak value of maximum steady-state voltage at normal operating conditions
Source: IEC 60664-1 (modified) Status: published
Apply: yes

overvoltage category
numeral defining a transient overvoltage condition
Source: IEC 60664-1 Status: published
Apply: yes

P

panel cut-out
a hole or group of holes cut in a panel or chassis for the purpose of mounting a component
Source: IEV 581-03-36 Status: published
Apply: yes

panel seal
seal provided between a component and a panel
Source: IEV 581-03-20 Status: published
Apply: yes

peripheral seal
seal at the periphery of an insert designed to prevent the ingress of moisture or contaminants on the perimeter of a component
Source: IEV 581-08-17 Status: published
Apply: yes

pin contact
contact intended to make electrical engagement on its outer surface and which will enter a female contact
Source: IEV 581-02-10 Status: deprecated
Apply: no, use 'male contact'

pitch
one division step of a regular subdivided coordinate
Source: IEC 60917-1/A1 Status: published
Apply: yes

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pitch dimension
co-ordination dimension for the height, width and depth of cabinets and racks used to determine the mechanical interfaces in the case of suite arrangement or of stacking of cabinets and racks
Source: IEC 60917-2 Status: unique
Apply: yes

plug connector
connector for attachment to the free end of a wire or cable
Source: IEV 581-06-12 Status: deprecated
Apply: no, use 'free cable connector' or 'free connector'

plug-in unit
unit which plugs into a rack and is supported by guides
NOTE These units can be of various types, ranging from a printed board with components inserted, to a frame or box-type unit designed with a plug-in connection.
Source: IEC 60917-1 (modified) Status: published
Apply: yes

plug-in unit guide
device to guide, locate and support plug-in units and printed boards in subracks, with components inserted
Source: IEC 60917-1 (modified) Status: published
Apply: yes

polarization
features on mating components to prevent incorrect mating
Source: IEV 581-03-31 Status: published
Apply: yes

pollution
any addition of foreign matter, solid, liquid, or gas, that can result in reduction of electrical strength or surface resistivity of the insulation
Source: IEC 60664-1(modified) Status: published
Apply: yes

pollution degree
numeral characterizing the expected pollution of the micro-environment
Source: IEC 60664-1 Status: published
Apply: yes

positioner of a crimping tool
locator with additional features which control the depth of the crimp
Source: IEV 581-05-09 Status: published
Apply: yes

post-insulated connection
connection which is insulated after it has been completed
Source: IEV 581-03-04 Status: published
Apply: yes

potting
sealing of components and associated conductors with a compound to exclude contaminants
Source: IEV 581-05-12 Status: published
Apply: yes

potting-form
an accessory used as a mould into which potting compound is placed
Source: IEV 581-05-10 Status: deprecated
Apply: no, use 'potting mould'

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potting mould
accessory used as a mould into which potting compound is placed
Source: IEV 581-05-10 Status: published
Apply: yes

pre-insulated connection
connection formed with an insulated terminal end or insulated cable splice by crimping through the insulation
Source: IEV 581-03-05 Status: published
Apply: yes

pre-insulated crimp barrel
crimp barrel with a permanent layer of insulation, which provides total electrical integrity after being deformed by the crimp, and through which the crimp is made
Source: IEV 581-03-59 and IEC 60352-2 (modified) Status: published
Apply: yes

pre-insulated terminal end
terminal end having a barrel with a permanent layer of insulation through which a crimp is made
Source: IEV 581-03-24 Status: published
Apply: yes

press-in connection
solderless connection made by inserting a press-in termination into a plated-through hole of a printed board
Source: IEV 581-03-46 Status: published
Apply: yes

press-in shoulders
flanges on both sides of a press-in contact, supporting the mechanical forces to press the contact into the printed board or backplane
Source: IEC 61076-4-101 (modified) Status: published
Apply: yes

press-in post
termination having a specially shaped section suitable to provide for a press-in connection
Source: IEV 581-03-39 Status: published
Apply: yes

press-in termination
termination having a specially shaped section suitable to provide for a press-in connection
Source: IEV 581-03-39 Status: published
Apply: yes

press-in zone
the specially shaped section of a press-in termination which is suitable to provide for the press-in connection
Source: IEV 581-03-52 Status: published
Apply: yes

pressure-sleeve
tubular elastomeric sleeve forming part of a pressure-sleeve cable clamp
NOTE The purpose of the pressure-sleeve is three-fold:
1) It converts some of the axial force imparted by the outlet-nut to inward radial force, thereby achieving electrical contact pressure between the cable braid and a ferrule inserted beneath the braid.
2) It exerts an axial thrust against the flange of the ferrule thereby achieving electrical contact pressure between the ferrule and the connector body.
3) It provides mechanical anchorage and sealing between the cable and the connector body by the action of the combined inward and outward radial pressures.
Source: IEV 581-07-28 Status: published
Apply: yes

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pressurized connector
connector employing a seal capable of fulfilling specified gas-tightness requirements
Source: IEV 581-06-22 Status: deprecated
Apply: no, use ‘sealed connector’

printed board connector
connector specifically designed to facilitate connections to printed boards
Source: IEV 581-06-17 Status: published
Apply: yes

protective conductor
conductor required by some measures for protection against electric shock for electrically connecting any of the following parts:
– exposed conductive parts,
– extraneous conductive parts,
– main earthing terminal,
– earth electrode,
– earthed point of the source or artificial neutral
Source: IEV 826-04-05 Status; published
Apply: yes

protective cover
accessory to cover a component for mechanical, environmental and/or electrical protection
NOTE Normally fitted with a means for attachment to the equipment or cable.
Source: IEV 581-05-04 (modified) Status: published
Apply: yes

pull-off connector
connector equipped with a pull-off coupling
Source: IEV 581-06-29 Status: published
Apply: yes

pull-off coupling
coupling in which unlocking is achieved by an axial pull on the coupling ring
Source: IEV 581-07-15 Status: published
Apply: yes

push-on contact
contact with which a connection is achieved by axial force, separation being restricted by friction
Source: IEV 581-07-04 Status: published
Apply: yes

push-pull connector
connector having a push-pull coupling
Source: IEV 581-06-30 Status: published
Apply: yes

push-pull coupling
quick axial coupling device with self-locking and unlocking features; unlocking is achieved by an axial pull on the coupling ring
Source: IEV 581-07-17 Status: published
Apply: yes

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Q

quick disconnect connector
connector fitted with a coupling device which permits relatively rapid unmating
Source: IEV 581-06-18 Status: published
Apply: yes

quick-disconnect coupling
type of coupling device which permits relatively rapid uncoupling
Source: IEV 581-07-18 Status: published
Apply: yes

R

rack
free-standing or fixed structure for housing electrical and electronic equipment
Source: IEC 60917-1 Status: published
Apply: yes

rack-and-panel connector
one of two mating fixed connectors intended to provide a connection between a unit and its mounting rack

NOTE It is usually provided with an alignment device to ensure correct mating. It normally has no coupling device and is mated by the movement between the unit and the rack (does not apply to the printed boards).
Source: IEV 581-06-19 (modified) Status: published
Apply: yes

rated current
current value, assigned by the manufacturer, which the connector can carry continuously (without interruption) and simultaneously through all its contacts, wired with the largest specified conductor, preferably at an ambient temperature of 40 °C without the upper temperature being exceeded

NOTE If other ambient temperature values are used for the definition of rated current, the manufacturer should state in the technical documentation the ambient temperature on which the rating is based, with reference, if appropriate, to the derating curve defined in IEC 60512, test 5b.
Source: IEC 61984 Status: published
Apply: yes

rated impulse voltage
voltage value assigned by the manufacturer to the connector characterizing the specified withstand capability of its insulation against transient overvoltages
Source: IEC 60664-1 (modified) Status: published
Apply: yes

rated insulation voltage
r.m.s. voltage assigned by the manufacturer to the equipment or a part of it, characterizing the specified (long term) withstand capability of its insulation
Source: IEC 60664-1 (modified) Status: published
Apply: yes

rated voltage
value of voltage, assigned by the manufacturer to a component, device, or equipment and to which operation and performance characteristics are referred
Source: IEC 61984 (modified) and IEC 60664-1 Status: published
Apply: yes

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rear-mounted
component with its mounting flange behind the mounting surface when looking at the mating face or front side of the component
Source: IEV 581-04-01 Status: deprecated
Apply: No, use 'back-mounted'

rear plug-up
connecting of the free connector to termination posts of the fixed board connector, which protrude from the backplane or the printed board
Source: IEC 61076-4-104 Status: published
Apply: yes

rear plug-up contact
termination post, usually being pressed-in into the backplane and provided at the rear of the backplane with a contact area, to which a free connector (cable connector) can be connected
Source: IEC 61076-4-108 (modified) and IEC 61076-4-101 (modified)
Apply: yes Status: published

rear-release contact
removable contact in which release is effected from the rear
Source: IEV 581-07-02 Status: published
Apply: yes

rear shroud
connector housing, mounted at the rear side of a backplane or printed board, using protruding termination posts to form a fixed board connector thus providing rear plug-up connection
Source: IEC 61076-4-104 Status: published
Apply: yes

receptacle
connector for attachment to a rigid surface
Source: IEV 581-06-10 Status: deprecated
Apply: no, use 'fixed connector'

rectangular connector
connector which is basically rectangular and has a basically rectangular mating face
Source: IEV 581-06-20 Status: published
Apply: yes

reference corner
corner of the wrap post at which the uninsulated wire makes its first indentation and from which the number of wrapped turns is counted
Source: IEV 581-03-38 (modified) Status: published
Apply: yes

reference plane
theoretical plane without thickness or tolerances
NOTE Used to define spaces in mechanical structures.
Source: IEC 60917-1 (modified) and IEC 60917-2 (modified)
Apply: yes Status: published

reinforced insulation
single insulation system applied to live parts, which provides a degree of protection against electric shock, equivalent to double insulation under the conditions specified in the relevant IEC standard
Source: IEC 60664-1 (modified) Status: published
Apply: yes

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removal tool
device for extracting removable contacts from a component
Source: IEV 581-05-14 Status: deprecated
Apply: no, use 'extraction tool'

resilient contact
contact having elastic properties to provide a force to its mating part
Source: IEV 581-02-11 Status: published
Apply: yes

restricted entry
design feature incorporated in a female contact or insulator to prevent the entry of an oversize pin or test probe
Source: IEV 581-08-12 Status: published
Apply: yes

return mechanism
device of a crimping tool to return the tool to the full open position when the crimping operation has been completed
Source: IEV 581-03-29 Status: published
Apply: yes

reusable insulation displacement termination
insulation displacement termination that can be terminated more than once
Source: IEV 581-03-48 (modified) Status: published
Apply: yes

right-angle connector
connector in which the axis of the cable outlet is at right-angles with the axis of the mating face
Source: IEV 581-06-31 Status: published
Apply: yes

r.m.s. withstand voltage
highest r.m.s. value of a voltage which does not cause breakdown of the insulation under specified conditions
Source: IEC 60664-1 Status: published
Apply: yes

routine test
test to which each individual device is subjected during or after manufacture to ascertain whether it complies with certain criteria
Source: IEV 151-04-16 Status: published
Apply: yes

S

saddle of a socket
metal part of a socket used for mounting the socket on the chassis
Source: IEV 581-07-29 (modified) Status: published
Apply: yes

sampling test
test on a number of devices taken at random from a batch
Source: IEV 151-04-17 Status: published
Apply: yes

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scoop-proof connector
connector incorporating features preventing its contacts, either male or female, from being touched by the front of the mating connector
Source: IEV 581-06-21 Status: published
Apply: yes

sealed connector
connector employing a seal capable of fulfilling specified gas-tightness requirements
Source: IEV 581-06-22 Status: published
Apply: yes

sealing
ability of a component to resist the ingress of contaminants
Source: IEV 581-03-21 Status: published
Apply: yes

sealing plug
accessory used to fill grommet cavities in a connector
Source: IEV 581-07-27 Status: deprecated
Apply: no, use 'filler plug'

shell of a socket
integral part of a socket used as a locating feature to orientate certain types of plug-in devices in relation to the contacts
NOTE It may also be used to provide means for clamping the plug-in device.
Source: IEV 581-07-30 (modified) Status: published
Apply: yes

shield latch of a socket
protrusion on the skirt or lower shield of a socket to provide retention of the tube shield
Source: IEV 581-07-32 Status: published
Apply: yes

shielded connector
connector designed to prevent the radiation of electromagnetic interference to and from the internal conductor(s)
Source: IEV 581-06-23 Status: published
Apply: yes

shroud
part of a component or an accessory which provides physical protection to otherwise exposed terminals or contacts
Source: IEV 581-03-33 Status: published
Apply: yes

single hole mounting
method of mounting a component which has a shoulder and a captivating device, through a single hole in a panel
Source: IEV 581-04-06 Status: published
Apply: yes

sizing tool
tool simulating a specified maximum size male contact or a specified minimum size female contact
Source: IEV 581-05-16 Status: published
Apply: yes

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skid-washer
washer fitted between a clamp-nut and a pressure-sleeve, to reduce the transmission of torque to the pressure-sleeve
Source: IEV 581-07-37 (modified) Status: published
Apply: yes

skirt
part of a socket for electrical and mechanical connection to the tube or shield
NOTE It usually performs also the function of a saddle. In certain cases it is used for the conduction of heat (see also lower shield).
Source: IEV 581-07-33 (modified) Status: published
Apply: yes

slides
angle-bars on which subracks and chassis may slide and be supported within a rack, cabinet or case
Source: IEC 60917-1 Status: published
Apply: yes

snap-on contact
push-on contact in which retention is achieved by means of a deformation of the contact area which provides positive axial location
Source: IEV 581-02-12 Status: published
Apply: yes

snatch-disconnect connector
connector designed to separate when a specified force is applied to the cable, without damage to the cable or the connector
Source: IEV 581-06-24 Status: published
Apply: no, use 'break-away connector'

socket
connector intended to mate with a plug-in device such as: tubes, relays, etc.
Source: IEV 581-06-33 Status: published
Apply: yes

socket body
insulating part of a socket
Source: IEV 581-07-35 Status: published
Apply: yes

socket contact
contact intended to make electrical engagement on its inner surface and which will accept entry of a male contact
Source: IEV 581-02-07 Status: deprecated
Apply: no, use 'female contact'

solder connection
connection made by soldering
Source: IEV 581-03-06 Status: superseded
Apply: no, use 'soldered connection'

solder contact
contact designed for the attachment of the conductor by solder
NOTE These contacts may assume but are not limited to the following types:
a) the wire is surrounded by the terminal, barrel, bucket, cup, well, etc.
b) the wire surrounds the terminal: post, stand-off, tag, etc.
c) the wire passes through the terminal: eyelet, hook, etc.
d) no wire is involved, as in printed circuit applications: post spill, tail, etc.
Source: IEV 581-02-13 Status: published
Apply: yes

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soldered connection
connection made by soldering
Source: IEV 581-03-06 Status: published
Apply: yes

solderless connection
connection achieved by mechanical means
Source: IEV 581-03-07 Status: published
Apply: yes

solid press-in termination
press-in termination having a solid press-in zone
Source: IEV 581-03-40 Status: published
Apply: yes

special contacts
contacts suitable for high current, high frequency, filter or fibre-optic applications
NOTE They may have a basic diameter of 4,8 mm.
Source: IEC 61076-4-104 (modified) Status: published
Apply: yes

spigot
projection from the base of a plug-in device extending beyond the male contacts which, in conjunction with a hole or recess in the socket, provides an axis of rotation to facilitate insertion
NOTE The spigot may carry a longitudinal key to ensure the correct orientation of the plug-in device in its socket, and in some cases may be used for an electrical contact.
Source: IEV 581-07-36 (modified) Status: published
Apply: yes

splice
connecting device with barrel(s) accommodating electrical conductor(s) with or without additional provision to accommodate and secure the insulation
Source: IEV 581-05-11 Status: published
Apply: yes

spring clamp connection
solderless connection achieved by clamping a conductor with a spring-clamp termination
Source: IEC 60352-7 Status: draft
Apply: yes

spring-clamp connecting device
device for the electrical connection of two or more conductors comprising one or more spring-clamp terminations and, if necessary, insulation and/or auxiliary parts
Source: IEC 60352-7 Status: draft
Apply: yes

spring clamp termination
part of the contact or terminal to which one single conductor only, is connected by means of a spring
Source: IEC 60352-7 Status: draft
Apply: yes

spring contact
contact having elastic properties to provide a force to its mating part
Source: IEV 581-02-11 Status: deprecated
Apply: no, use 'resilient contact'

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stackable
way of mounting whereby connectors are positioned side-by-side or in end-to-end lengthwise series, preferably without loss of contact positions
Source: IEC 61076-4-101 (modified) and IEC 61076-4-104 Status: published,
Apply: yes

stacking
placing cabinets or racks on top of one another in a given height
Source: IEC 60917-2 Status: published
Apply: yes

staggered-contact connector
connector having a staggered arrangement of the terminations and/or the contacts
Source: IEV 581-06-25 Status: published
Apply: yes

stake contact
contact for individual mounting to a printed board by staking, and normally soldered to a land
Source: IEV 581-07-05 Status: published
Apply: yes

straight through connector
fixed or free component to permit electrical connection(s) between two or more connectors where direct connection is mechanically impossible
Source: IEV 581-06-02 Status: deprecated
Apply: no, use 'connector adaptor'

strain relief slot
specially shaped opening of an ID termination suitable to provide strain relief to the wire
Source: IEC 60352-3 and IEC 60352-4 (modified), IEV 581-02-29 (modified)
Apply: yes Status: unique

strain relief clamp
accessory or part of a component to grip the cable or wire to provide strain relief and absorb mechanical stress which would otherwise be transmitted to the termination
Source: IEV 581-09-03 Status: deprecated
Apply: no, use 'cable clamp'

stripping force
force applied to the wrapped connection along the major axis of the post which breaks the gas-tight areas
Source: IEV 581-03-55 Status: published
Apply: yes

suite of racks and cabinets
row of racks or cabinets placed side by side
Source: IEC 60917-1 Status: published
Apply: yes

submersible connector
connector capable of withstanding submersion to a specified depth
Source: IEV 581-06-26 Status: published
Apply: yes

subrack
structural unit for housing printed boards with components inserted, and plug-in units
Source: IEC 60917-1 Status: published
Apply: yes

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suite of racks
row of racks or cabinets placed side-by-side
Source: IEC 60917-1 Status: published
Apply: yes

supplementary insulation
independent insulation applied in addition to basic insulation, in order to provide protection against electric shock in the event of a failure of the basic insulation
Source: IEC 60664-1 Status: published
Apply: yes

swing frame
hinged frame for holding electrical and/or electronic equipment
NOTE The frame swings to permit access to the reverse side.
Source: IEC 60917-1 Status: published
Apply: yes

T

telephone plug
free connector consisting of two or more contacts on a common shank
Source: IEV 581-06-35 Status: published
Apply: yes

telescopic slides
devices to support withdrawable subracks and chassis in the extended position
Source: IEC 60917-1 Status: published
Apply: yes

terminal
part of a component which provides a re-usable connection
Source: IEV 581-03-22 Status: published
Apply: yes

terminal block
assembly of terminals in a housing or body of insulating material to facilitate interconnection between multiple conductors
Source: IEV 581-06-36 Status: published
Apply: yes

terminal end
component to be fitted to a conductor to attach it to a terminal
Source: IEV 581-03-23 Status: published
Apply: yes

termination
1) permanent connection,
2) part of a contact, terminal or terminal end to which a conductor is normally connected
Source: IEV 581-03-25 Status: published
Apply: yes

termination removal tool
device for removing a press-in termination from a printed board
Source: IEV 581-05-23 Status: published
Apply: yes

termination insertion tool
device used to insert press-in terminations, or components equipped with press-in terminations, into a printed board
Source: IEV 581-05-22 Status: published
Apply: yes

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termination point
part of a contact, terminal of a contact, terminal or terminal end to which a conductor is normally attached
Source: IEV 581-03-26 Status: published
Apply: yes

test probe proof
design feature incorporated in a female contact and/or insert to prevent damage by the insertion of a test probe
Source: IEV 581-08-19 Status: published
Apply: yes

thermocouple contact
contact manufactured of thermocouple materials and used in thermocouple applications
Source: IEV 581-07-06 Status: published
Apply: yes

threaded coupling
means of coupling by engaging screw threads present on the mating components
Source: IEV 581-07-19 Status: published
Apply: yes

total post length
length of a post from the mounting plane to the tip
Source: IEV 581-03-61 Status: published
Apply: yes

triaxial contact
assembly of three contacts arranged coaxially, enabling the termination of shielded triaxial or twisted pair cables
Source: IEC 61076-6 Status: draft
Apply: yes

tuning fork contact
resilient contact having a shape similar to that of a tuning fork, the two arms of which apply contact force in opposite directions
Source: IEV 581-02-14 Status: published
Apply: yes

turn of wire
single helical ring wrapped 360° around a wrap post
Source: IEV 581-03-65 Status: published
Apply: yes

twinax contact
assembly of three contacts, two of which are parallel, the third being peripheral to these, enabling the termination of screened twisted pair cables
Source: IEC 61076-6 Status: draft
Apply: yes

twist-on connector
connector which is mated by axial force and locked by rotation of the locking device
Source: IEV 581-06-32 Status: published
Apply: yes

type test
test of one or more devices made to a certain design to show that the design meets certain specifications
Source: IEV 151-04-15 Status: published
Apply: yes

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U

umbilical connector
connector used to connect a cable to a vehicle, which is separated automatically before or during the initial movement of the vehicle
Source: IEV 581-06-27 Status: published
Apply: yes

unitor connector
one of two mating fixed connectors intended to provide a connection between a unit and its mounting rack

NOTE It is usually provided with an alignment device to ensure correct mating. It normally has no coupling device and is mated by the movement between the unit and the rack (does not apply to the printed boards)
Source: IEV 581-06-19 (modified) Status: deprecated
Apply: no, use 'rack-and-panel connector'

unwrapping tool
tool to remove a wrapped connection by unwrapping
Source: IEV 581-05-17 Status: published
Apply: yes

upper limiting temperature
maximum temperature of a connector as defined by the climatic category, assigned by the manufacturer, in which the connector is intended to operate
NOTE The abbreviation ULT is often used
Source: IEC 61984 Status: published
Apply: yes

V

virtual contact width
combination of the width of the contact face together with any positional variation of the contact
Source: IEV 581-03-12 Status: published
Apply: yes

W

welded connection
connection made by welding
Source: IEV 581-03-09 Status: published
Apply: yes

wire extraction tool
device for extracting the wire(s) from the insulation displacement termination
Source: IEV 581-05-21 Status: published
Apply: yes

wire insertion tool
hand or power operated tool for producing an insulation displacement connection by inserting the wire(s) in a controlled manner to a predetermined position in the slot(s)
Source: IEV 581-05-20 Status: published
Apply: yes

working voltage
highest r.m.s. value of the a.c. or d.c. voltage across any particular insulation which can occur when the equipment is supplied at rated voltage
Source: IEC 60664-1 (modified) Status: published
Apply: yes

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wrap contact
contact designed to accept a wrapped connection
Source: IEV 581-02-15 Status: published
Apply: yes

wrap post
termination generally rectangular with sharp corners made to accept a wrapped connection
Source: IEV 581-03-34 Status: published
Apply: yes

wrap removal tool
tool to remove a wrapped connection by unwrapping
Source: IEV 581-05-17 Status: deprecated
Apply: no, use 'unwrapping tool'

wrapped connection
solderless connection achieved by wrapping a solid conductor around a wrap post
Source: IEV 581-03-10 Status: published
Apply: yes

wrapping tool
tool used to make a wrapped connection
Source: IEV 581-05-18 Status: published
Apply: yes

Z

zero insertion force component
component designed to eliminate the insertion and withdrawal forces during mating and unmating
Source: IEV 581-06-37 Status: published
Apply: yes

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Standards Survey

The IEC would like to offer you the best quality standards possible. To make sure that we continue to meet your needs, your feedback is essential. Would you please take a minute to answer the questions overleaf and fax them to us at +41 22 919 03 00 or mail them to the address below. Thank you!

Customer Service Centre (CSC)

International Electrotechnical Commission
3, rue de Varembé
1211 Genève 20
Switzerland

or

Fax to: **IEC**/CSC at +41 22 919 03 00

Thank you for your contribution to the standards-making process.

Nicht frankieren
Ne pas affranchir

Non affrancare
No stamp required

A Prioritaire

RÉPONSE PAYÉE

SUISSE

Customer Service Centre (CSC)
International Electrotechnical Commission
3, rue de Varembé
1211 GENEVA 20
Switzerland

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Q1 Please report on **ONE STANDARD** and **ONE STANDARD ONLY**. Enter the exact number of the standard: *(e.g. 60601-1-1)*

.....

Q2 Please tell us in what capacity(ies) you bought the standard *(tick all that apply).* I am the/a:

purchasing agent ❑
librarian ❑
researcher ❑
design engineer ❑
safety engineer ❑
testing engineer ❑
marketing specialist ❑
other.....

Q3 I work for/in/as a: *(tick all that apply)*

manufacturing ❑
consultant ❑
government ❑
test/certification facility ❑
public utility ❑
education ❑
military ❑
other.....

Q4 This standard will be used for: *(tick all that apply)*

general reference ❑
product research ❑
product design/development ❑
specifications ❑
tenders ❑
quality assessment ❑
certification ❑
technical documentation ❑
thesis ❑
manufacturing ❑
other.....

Q5 This standard meets my needs: *(tick one)*

not at all ❑
nearly ❑
fairly well ❑
exactly ❑

Q6 If you ticked NOT AT ALL in Question 5 the reason is: *(tick all that apply)*

standard is out of date ❑
standard is incomplete ❑
standard is too academic ❑
standard is too superficial ❑
title is misleading ❑
I made the wrong choice ❑
other .....

Q7 Please assess the standard in the following categories, using the numbers:
(1) unacceptable,
(2) below average,
(3) average,
(4) above average,
(5) exceptional,
(6) not applicable

timeliness.....
quality of writing.....
technical contents.....
logic of arrangement of contents .....
tables, charts, graphs, figures.....
other .....

Q8 I read/use the: *(tick one)*

French text only ❑
English text only ❑
both English and French texts ❑

Q9 Please share any comment on any aspect of the IEC that you would like us to know:

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