

INTERNATIONAL STANDARD

NORME INTERNATIONALE

DATABASE SNAPSHOT

Graphical symbols for diagrams

Symboles graphiques pour schémas



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

DATABASE SNAPSHOT

Graphical symbols for diagrams

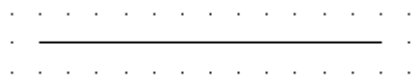
Symboles graphiques pour schémas

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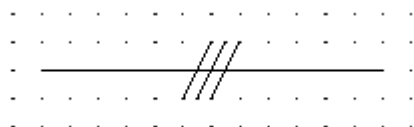
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S00001



Name:	Connection, general symbol
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-01
Alternative names:	conductor; cable; line; transmission path; telecommunication line
Keywords:	cables, conductors, connections, lines, telecommunication, transmission paths
Applied in:	S00004, S00005, S00050, S00051, S00054, S00052, S00423, S00410, S00408, S00409, S00407, S00411, S00416, S00415, S00412, S00414, S00413, S00417, S00418, S00425, S00437, S00439, S00447, S00444, S00445, S00446, S00449, S00448, S01391, S01414, S01415, S01448, S01449, S01807, S01185, S01082, S01084, S00531, S01148, S01143, S01086, S01142, S01149, S01318, S01151, S01141, S01081, S01138, S01145, S01083, S01140, S01377, S01378, S01150, S00826, S00592, S01080, S01336, S01831, S01916, S01917
Application notes:	A00193, A00194
Shape class:	Lines
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams
Remarks:	See also symbol S00058.

S00002

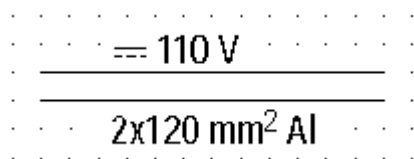


Name:	Group of connections (number of connections indicated)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-02
Keywords:	conductors, connections
Form:	Form 1
Alternative forms:	S00003
Applied in:	S00025, S00449, S00874, S00880, S01087, S00888, S00886, S00854, S00872, S00890, S00856, S00884, S00860, S01093, S00868, S00870, S00866, S00858, S00852, S00882, S00862, S00864, S01088, S01089, S00876, S01091, S01837, S01913
Applies:	S00058
Application notes:	A00192, A00193, A00194
Shape class:	Lines
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams
Remarks:	Three connections shown.

3

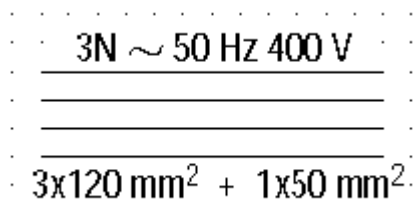
Name:	Group of connections (number of connections indicated)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-03
Keywords:	conductors, connections
Form:	Form 2
Alternative forms:	S00002
Applied in:	S00027, S00024, S00055, S00053, S00294, S00295, S01277, S00888, S01323, S00890, S01285, S01324, S01092
Applies:	S00058
Application notes:	A00192, A00193, A00194
Shape class:	Characters, Lines
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams
Remarks:	Three connections shown.

S00004



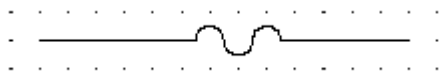
Name:	Direct current circuit
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-04
Keywords:	conductors, connections
Applies:	S00001; S01401
Application notes:	A00193, A00194
Shape class:	Characters, Lines
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams
Remarks:	110 V, two aluminium conductors of 120 mm ²

S00005



Name:	Three-phase circuit
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-05
Keywords:	conductors, connections
Applied in:	S00314
Applies:	S00001; S01403
Application notes:	A00193, A00194
Shape class:	Characters, Lines
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams
Remarks:	50 Hz, 400 V, three conductors of 120 mm(2) , with neutral of 50 mm(2). 3N may be replaced by 3+N.

S00006



Name: Flexible connection

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-06

Keywords: conductors, connections

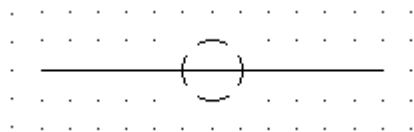
Applied in: S01147

Shape class: Depicting shapes

Function class: W Guiding or transporting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

S00007



Name: Screened conductor

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-07

Keywords: conductors, connections

Applied in: S00013, S00791, S00783

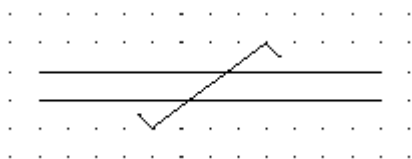
Application notes: A00001

Shape class: Circles, Lines

Function class: W Guiding or transporting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

S00008



Name: Twisted connection

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-08

Keywords: conductors, connections

Application notes: A00001

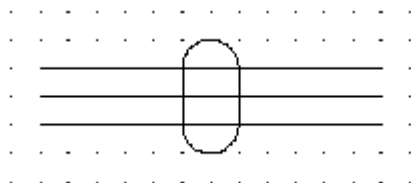
Shape class: Lines

Function class: W Guiding or transporting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

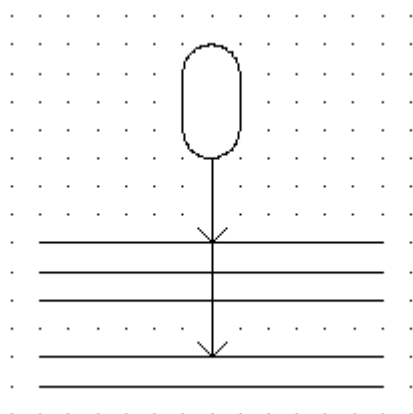
Remarks: Two connections shown.

S00009



Name:	Conductors in a cable
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-09
Keywords:	conductors, connections
Alternative forms:	S00010
Applied in:	S00010, S01324
Application notes:	A00001
Shape class:	Ovals
Function class:	- Functional elements or attributes
Application class:	Conceptual elements or qualifiers
Remarks:	Three conductors shown.

S00010



Name: Conductors in a cable

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-10

Keywords: conductors, connections

Applies: S00009

Application notes: A00001

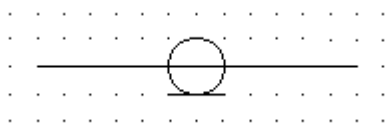
Shape class: Arrows, Lines , Ovals

Function class: W Guiding or transporting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

Remarks: Five conductors, two of which marked by arrowheads are in one cable.

S00011



Name: Coaxial pair

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-11

Keywords: conductors, connections

Applied in: S00013, S00012, S00042, S00591, S00606, S01119, S00610

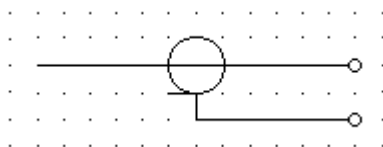
Application notes: A00011

Shape class: Circles, Lines

Function class: W Guiding or transporting

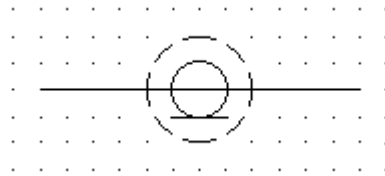
Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

S00012



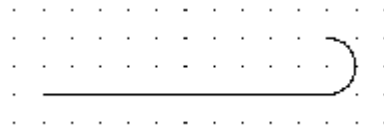
Name:	Coaxial pair connected to terminals
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-12
Keywords:	conductors, connections, terminals
Applies:	S00011; S00017
Application notes:	A00011
Shape class:	Circles, Lines
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00013



Name:	Coaxial pair with screen
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-01-13
Keywords:	conductors, connections
Applies:	S00007; S00011
Shape class:	Circles
Function class:	W Guiding or transporting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00014



Name: End of a conductor or cable, not connected

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-14

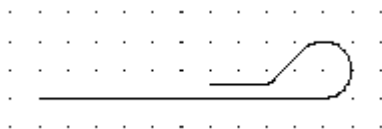
Keywords: conductors, connections

Shape class: Half-circles, Lines

Function class: - Functional elements or attributes

Application class: Conceptual elements or qualifiers

S00015



Name: End of a conductor or cable, not connected and specially insulated

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-01-15

Keywords: cables, conductors, connections

Shape class: Half-circles, Lines

Function class: - Functional elements or attributes

Application class: Conceptual elements or qualifiers

S00016



Name: Connection point

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-02-01

Alternative names: Junction

Keywords: branchings, connections, junctions

Applied in: S00020, S00022, S00455, S00454, S01790, S01785, S01797, S01798, S00952, S01325, S00664, S01833, S01834

Replacing: S01350

Shape class: Circles, Dots (points)

Function class: - Functional elements or attributes

Application class: Conceptual elements or qualifiers

S00017



Name: Terminal

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-02-02

Keywords: terminals

Applied in: S00012, S00039, S00044, S00046, S00268, S00267, S00269, S01200, S00880, S00955, S00957, S01201, S00881, S01202, S01836, S01839, S01840, S01841, S01842

Shape class: Circles

Function class: X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

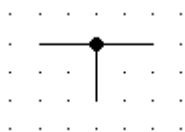
S00018



Name:	Terminal strip
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-03
Keywords:	terminals
Application notes:	A00002
Shape class:	Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams

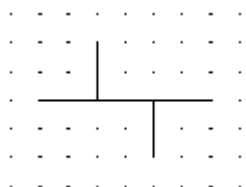
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S00020



Name:	T-connection
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-05
Keywords:	branchings, connections, junctions
Form:	Form 2
Alternative forms:	S00019
Applies:	S00016
Shape class:	Circles, Dots (points)
Function class:	W Guiding or transporting, X Connecting
Application class:	Circuit diagrams, Function diagrams, Overview diagrams
Remarks:	Shown with junction symbol.

S00021



Name: Double junction of conductors

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-02-06

Keywords: branchings, connections, junctions

Form: Form 1

Alternative forms: S00022

Applies: S00019

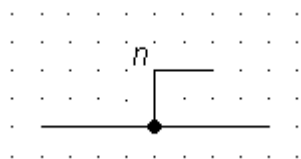
Shape class: Lines

Function class: W Guiding or transporting, X Connecting

Application class: Circuit diagrams, Function diagrams, Overview diagrams

Application class: Circuit diagrams, Function diagrams, Overview diagrams

S00023



Name: Branching

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-02-09

Alternative names: Junction

Keywords: branchings, connections, junctions

Applied in: S01351

Application notes: A00003

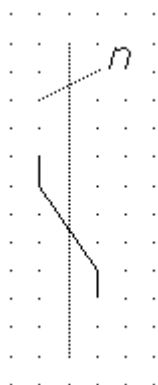
Shape class: Characters, Circles, Dots (points), Lines

Function class: W Guiding or transporting, X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Network maps, Overview diagrams

Remarks: Junction common to a group of identical and repeated parallel circuits.

S00024



Name: Interchange

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-02-11

Alternative names: Interchange of conductors; Change of phase sequence; Inversion of polarity

Keywords: connections, interchanges, inversion

Applied in: S00025, S01413, S00514, S01915

Applies: S00003

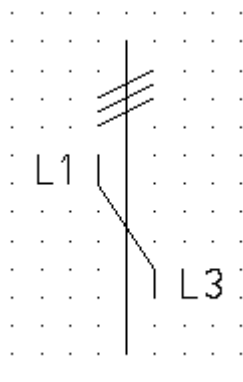
Application notes: A00004, A00262

Shape class: Characters, Lines

Function class: - Functional elements or attributes

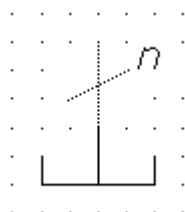
Application class: Conceptual elements or qualifiers

S00025



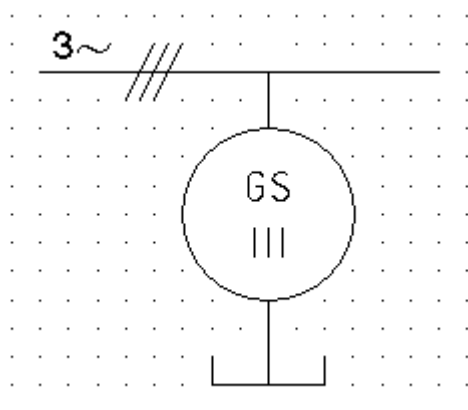
Name:	Change of phase sequence
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-12
Keywords:	interchanges
Applies:	S00002; S00024
Application notes:	A00004
Shape class:	Characters, Lines
Function class:	- Functional elements or attributes
Application class:	Conceptual elements or qualifiers

S00026



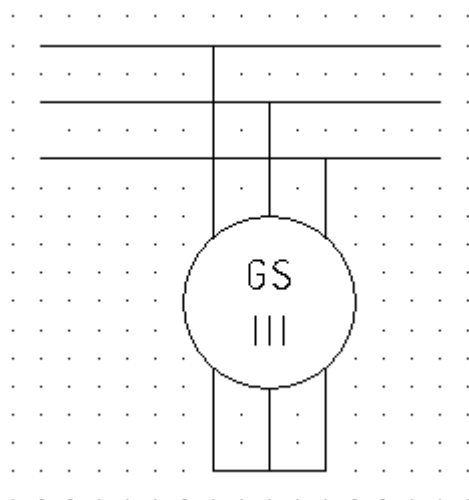
Name:	Neutral point
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-13
Keywords:	connections, junctions, neutral points
Applied in:	S00027, S00028
Application notes:	A00003, A00262
Shape class:	Characters, Lines
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Remarks:	Point at which multiple conductors are connected together to form the neutral point in a multiphase system.

S00027



Name:	Neutral point of a generator (single-line representation)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-14
Keywords:	connections, generators, junctions, neutral points, power generators
Applies:	S00003; S00026; S00797; S00819
Shape class:	Lines
Function class:	X Connecting
Application class:	Circuit diagrams, Function diagrams, Overview diagrams
Remarks:	Synchronous generator, three-phase, both leads of each phase of the generator winding brought out, shown with external neutral point.

S00028



Name: Neutral point of a generator (multi-line representation)

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-02-15

Keywords: connections, generators, junctions, neutral points, power generators

Applies: S00026; S00797; S00819

Shape class: Lines

Function class: X Connecting

Application class: Circuit diagrams

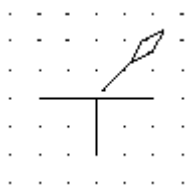
Remarks: Multi-line representation of symbol S00027.

S00029



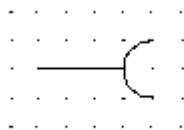
Name:	Junction not interrupting the conductor
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-16
Keywords:	branchings, connection devices, connections, junctions
Applies:	S00019
Application notes:	A00005
Shape class:	Lines
Function class:	- Functional elements or attributes
Application class:	Conceptual elements or qualifiers
Remarks:	The symbol is shown with symbol S00019.

S00030



Name:	Junction requiring a special tool
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-02-17
Keywords:	branchings, connection devices, connections, junctions
Applies:	S00019
Shape class:	Depicting shapes, Lines
Function class:	- Functional elements or attributes
Application class:	Conceptual elements or qualifiers
Remarks:	The symbol is shown with symbol S00019.

S00031



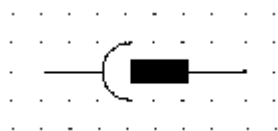
Name:	Contact, female (of a socket or plug)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-01
Alternative names:	Socket
Keywords:	connection devices, sockets
Applied in:	S00033, S00038, S00047, S00049, S00048, S00457, S01329
Application notes:	A00006
Replacing:	S01352
Shape class:	Half-circles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00032



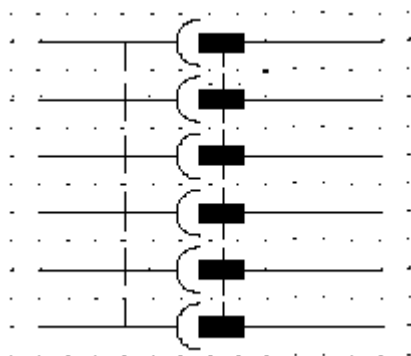
Name:	Contact, male (of a socket or plug)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-03
Alternative names:	Plug
Keywords:	connection devices, plugs
Applied in:	S00033, S00039, S00038, S00043, S00047, S00049, S00048, S01329
Application notes:	A00007
Replacing:	S01353
Shape class:	Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00033



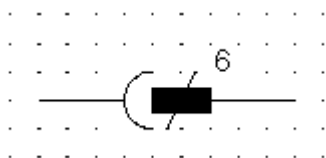
Name:	Plug and socket
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-05
Keywords:	plugs, sockets
Applied in:	S00034, S00035, S00042, S01329
Applies:	S00031; S00032
Application notes:	A00210
Replacing:	S01354
Shape class:	Half-circles, Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00034



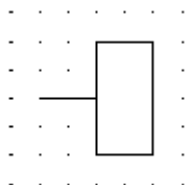
Name:	Plug and socket, multipole (multi-line representation)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-07
Keywords:	plugs, sockets
Alternative forms:	S00035
Applies:	S00033; S00144
Shape class:	Half-circles, Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams
Remarks:	The symbol "Plug and socket, multipole" is shown with 6 female and 6 male contacts in multi-line representation

S00035



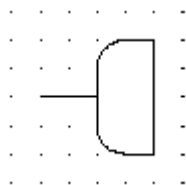
Name:	Plug and socket, multipole (single-line representation)
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-08
Keywords:	plugs, sockets
Applies:	S00033
Shape class:	Characters, Half-circles, Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams
Remarks:	The symbol "Plug and socket, multipole" represents in single-line representation 6 female and 6 male contacts

S00036



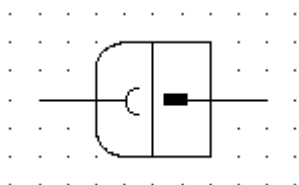
Name:	Connector, fixed portion of an assembly
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-09
Keywords:	connection devices, connectors
Applied in:	S00038
Application notes:	A00008
Shape class:	Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00037



Name:	Connector, movable portion of an assembly
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-10
Keywords:	connection devices, connections
Applied in:	S00038
Application notes:	A00008
Shape class:	Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00038



Name: Connector assembly

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-11

Keywords: connection devices, connectors

Applies: S00031; S00032; S00036; S00037

Application notes: A00008

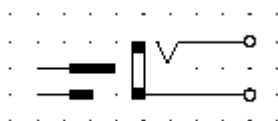
Shape class: Half-circles, Rectangles

Function class: X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

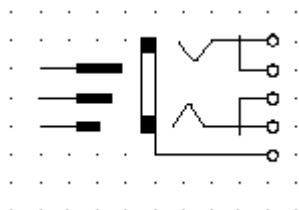
Remarks: The symbol is shown with fixed plug-side and movable socket-side.

S00039



Name:	Telephone type plug and jack
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-12
Keywords:	connection devices, plugs, jacks
Applied in:	S00040
Applies:	S00017; S00032
Application notes:	A00009
Shape class:	Circles, Depicting shapes, Lines , Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams
Remarks:	The symbol is shown with two poles.

S00040



Name: Telephone type plug and jack with break contacts

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-13

Keywords: connection devices, jacks, plugs

Applies: S00039; S00233

Application notes: A00009

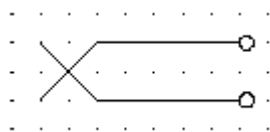
Shape class: Circles, Depicting shapes, Lines , Rectangles

Function class: X Connecting

Application class: Circuit diagrams

Remarks: The symbol is shown with three poles.

S00041



Name: Telephone type break jack, telephone type isolating jack

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-14

Keywords: connection devices

Shape class: Circles, Depicting shapes, Lines

Function class: X Connecting

Application class: Circuit diagrams

Name:	Plug and socket, coaxial
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-15
Keywords:	connection devices, connectors, plugs, sockets
Applies:	S00011; S00033
Application notes:	A00010
Shape class:	Circles, Half-circles, Lines , Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00043



Name: Butt-connector

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-16

Keywords: connection devices, connectors

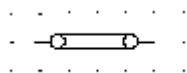
Applies: S00032

Shape class: Rectangles

Function class: X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00044



Name: Connecting link, closed

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-17

Alternative names: Test terminal, twin stud type

Keywords: connection devices, testing points

Form: Form 1

Alternative forms: S00045

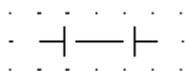
Applies: S00017

Shape class: Circles, Depicting shapes

Function class: X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams

S00045



Name: Connecting link, closed

Status level: Standard

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-18

Keywords: connection devices

Form: Form 2

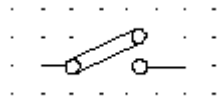
Alternative forms: S00044

Shape class: Lines

Function class: X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams

S00046



Name: Connecting link, open

Status level: **Standard**

Released on: 2001-07-01

Earlier published in: IEC 60617-3 (ed.2.0) 03-03-19

Keywords: connection devices

Applies: S00017

Shape class: Circles, Depicting shapes

Function class: X Connecting

Application class: Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams

S00047



Name:	Plug and socket-type connector, male-male
Status level:	Standard
Released on:	2001-07-01
Earlier published in:	IEC 60617-3 (ed.2.0) 03-03-20
Alternative names:	U-link
Keywords:	connection devices, connectors, plugs, sockets
Applies:	S00031; S00032
Shape class:	Half-circles, Rectangles
Function class:	X Connecting
Application class:	Circuit diagrams, Connection diagrams, Function diagrams, Installation diagrams, Overview diagrams