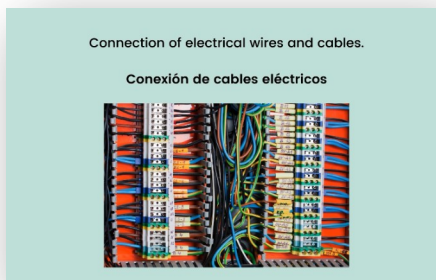


SCRIPT

SECTOR: CONNECTION PLANS IN ELECTRONIC ENGINEERING
IN SPAIN

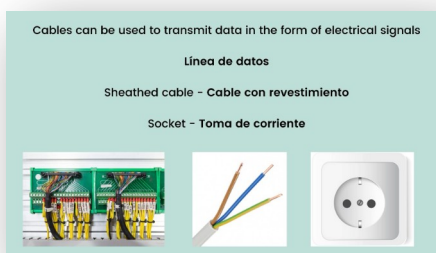
TOPIC: LEARN THE MOST IMPORTANT FACTS ABOUT THE
CABLING SYSTEM IN SPAIN
AND LEARN THE MOST IMPORTANT VOCABULARY.



Connection of electrical wires and cables.

Conexión de cables eléctricos.

This is what you should know, when you connect or join wires in electrical installations.



Cables can be used to transmit data in the form of electrical signals: **Línea de datos.**

Or they can be used to supply electrical energy to sockets or luminaires: **Cable con revestimiento.**



Let's take a closer look at two sheathed cables for electrical power supply. We remove the sheath insulation with a stripper – **stripper** – without damaging the cores.

One of the cables has single-wire rigid copper cores. The other has finely stranded flexible copper cores.

Hilos de cobre rígidos monofilares

Hilos de cobre flexibles trenzados

The cores of both cables have the same cross section: **Sección transversal.**

Distribution cabinet

Gabinete de distribución



Cables with rigid copper cores are used for fixed installations, for example in the wall. Cables with flexible copper cores are used for connecting movable devices or as individual cores in a distribution cabinet: [Gabinete de distribución](#).

What must be observed when connecting the cores?

Núcleos



What must be observed when connecting the cores: [Núcleos](#)?

Earthing contact plug
Clavija de contacto de tierra

Wire end sleeves
Manguitos para los extremos de los cables



Rule 1 - Connection to screw connections:

Rigid copper wires can be connected directly to the screw connections of the earthing contact plug.

Earthing contact plug – colloquially [Clavija de contacto de tierra](#).

Flexible copper cores must NOT be connected directly to the screw connections of the Schuko plug.

Wire end sleeves must be pressed onto flexible copper wires with crimping pliers: [Manguitos para los extremos de los cables](#).

This ensures a permanent connection!

Connecting terminals - Terminales de conexión

There are special connecting terminals for flexible copper wires

Hilos de cobre flexibles



Rule 2 - Connection in plug-in terminals:

Rigid copper wires can be plugged directly into connecting terminals: [Terminales de conexión](#).

There are special connecting terminals for flexible copper wires: [Hilos de cobre flexibles](#).

Create a secure connection and stay connected!

¡MANTENTE CONECTADO!

Create a secure connection and stay connected!

[¡Mantente conectado!](#)

LIST OF VOCABULARY

SECTOR: CONNECTION PLANS IN ELECTRONIC ENGINEERING
IN SPAIN

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| SPANISH | YOUR LANGUAGE |
|--|----------------------|
| <i>Conexión de cables eléctricos</i> | |
| <i>Línea de datos</i> | |
| <i>Cable con revestimiento</i> | |
| <i>stripper</i> | |
| <i>Hilos de cobre rígidos monofilares</i> | |
| <i>Hilos de cobre flexibles trenzados</i> | |
| <i>Sección transversal</i> | |
| <i>Gabinete de distribución</i> | |
| <i>Núcleos</i> | |
| <i>Clavija de contacto de tierra</i> | |
| <i>Manguitos para los extremos de los cables</i> | |
| <i>Terminales de conexión</i> | |
| <i>¡Mantente conectado!</i> | |