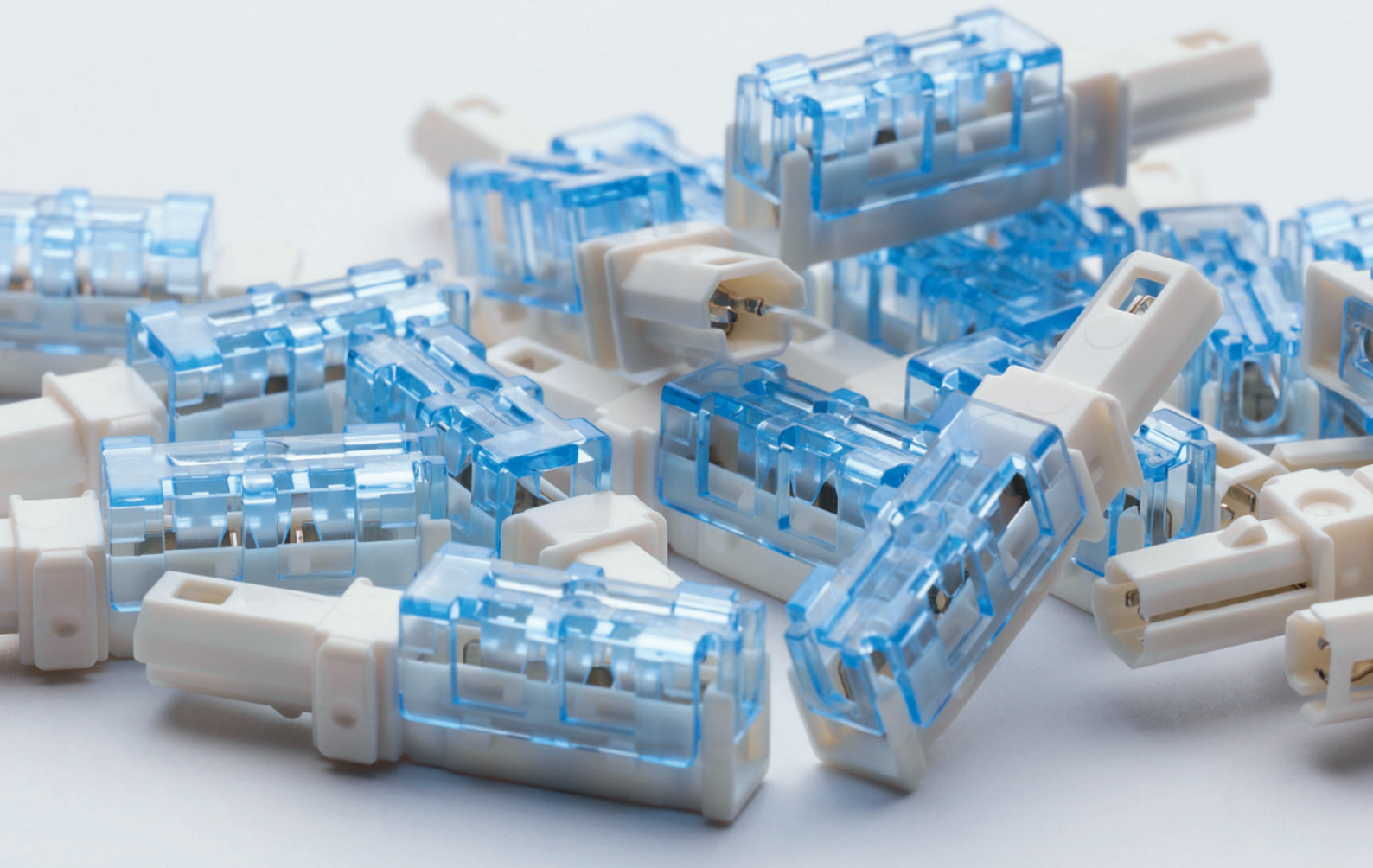




Vogt AG Verbindungstechnik creating connections



PLUG-IN AND INSULATION DISPLACEMENT CONNECTORS

Insulation displacement connector IDC, insulated

Branch terminal IDC, insulated

Plug-in connector IDC, insulated

Insulation displacement connector IDC



Connect easily in indoor areas

Thanks to the insulation-piercing contact, the IDCs are a convenient way of branching off cables. To form the connection, the cable is fed into the connector and pressed together using an ordinary pair of pliers without the need for any other special tools. The excess wire end is shortened, and the insulation on the wire is cut through by the sharp contacts in the metal cutting terminal. This provides an electrical connection.

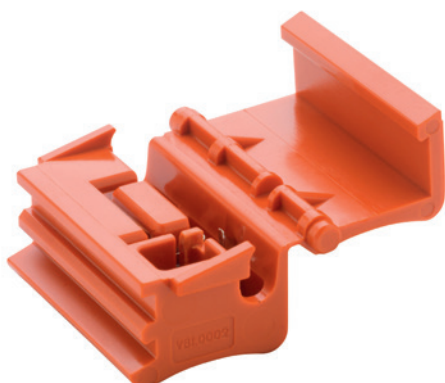
4 benefits for you

Easy assembly in a very short time

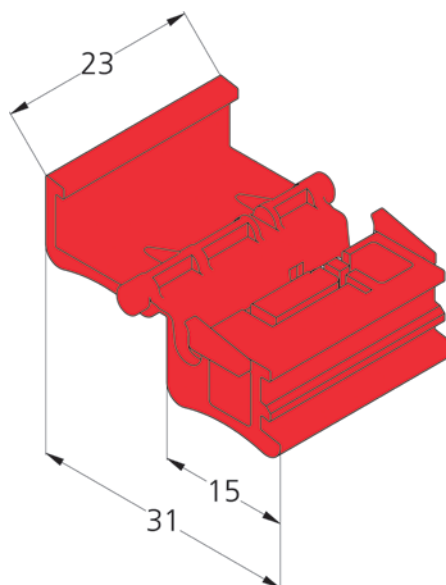
Optimum connection thanks to the integrated automatic wire-cutting function.

Tool-free connection for a wide range of wire sizes

No soldering, screwing or wire-stripping are needed



Dimensional drawing



Technical data

Insulation displacement connector IDC, insulated

Art. No.	Material	Nominal voltage	Current load capacity / max. insulation diameter	Temperature resistance	Contact	Conductor cross-section
 3927a	Polycarbonate	230 V (AC/DC)	15 A (1.5 mm ² / AWG 16)	up to max. 120°C	Tinned brass	1.5 mm ²
 3927b	Polycarbonate	230 V (AC/DC)	25 A (2.5 mm ² / AWG 14)	up to max. 120°C	Tinned brass	2.5 mm ²

Accessories

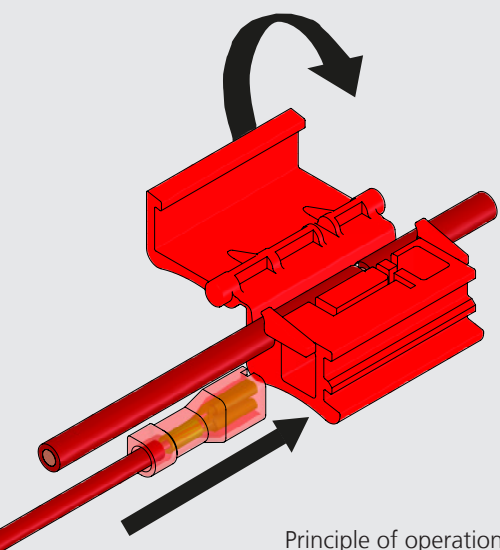


Flat connector, Art. Nr. 389908s, 2.8 mm

Applications

Insulation displacement connector IDC, insulated

Lighting	Indoor electronics	Do-it-yourself / model-making Repairs / maintenance	Contact us Telephone +41 62 285 75 75
			



Principle of operation

Instructions

1. Insert the insulated wire.
2. Press and close the lid with flat-nosed pliers to connect the wires.
3. The flat plug can be inserted at the side.

Warning: Switch off the device or remove the plug before installation. Only use insulated cables. Do not strip the insulation off the strands.

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Branch terminal IDC

> For strands

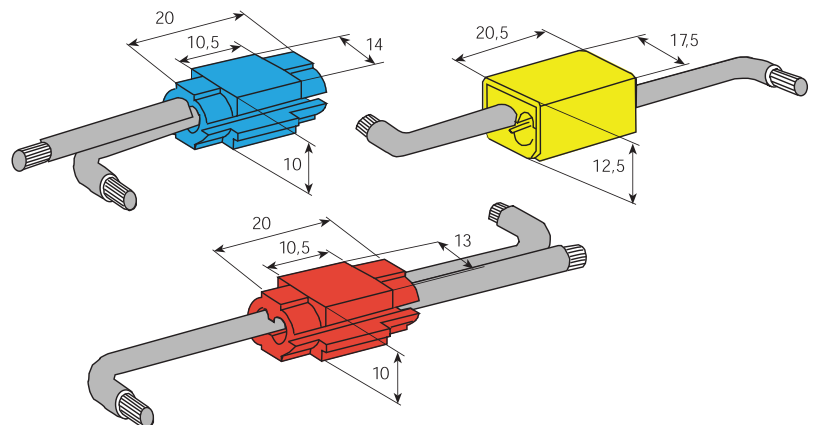


> For tab connectors



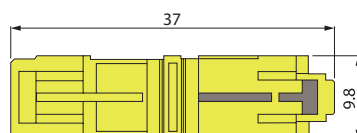
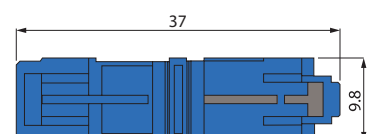
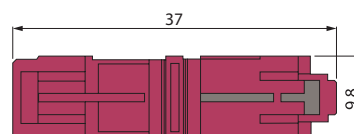
Versatile connection options

Branch terminals for low-voltage power cables are suitable for establishing an electrical connection by mechanical fastening. The conduction of current through the main cable is ensured by compressing the conductors of the branch cable with a conventional pair of pliers. The main cable is positioned in such a way that the upper tooth edge in the housing cuts through the insulation of the cable when the connector is pressed together, so that the contacts embedded in the housing establish the electrical connection of the branch cables.



3 advantages for you

- Suitable for voltage tapping of main supply lines
- Easy branching without special tools
- No soldering, screwing or wire-stripping are needed



Technical data

Branch terminal IDC for strands

Art. No.	Material / contact	Nominal voltage	Current load capacity / max. insulation diameter	Temperature resistance	UL	Conductor cross-section
3924	 Polypropylene/ tinned brass	600 V (AC/DC)	AWG 22 20 18 AMP 3 4 7	to +105°C	E235797	AWG 22–18 0.3 mm ² –1 mm ²
3927	 Polypropylene/ tinned brass	600 V (AC/DC)	AWG 18 16 14 AMP 17 18 30	to +105°C	E235797	AWG 18–14 1.5 mm ² –2.5 mm ²
3929	 Polypropylene/ tinned brass	600 V (AC/DC)	AWG 12 10 AMP 35 50	to +105°C	E235797	AWG 12–10 4 mm ² –6 mm ²

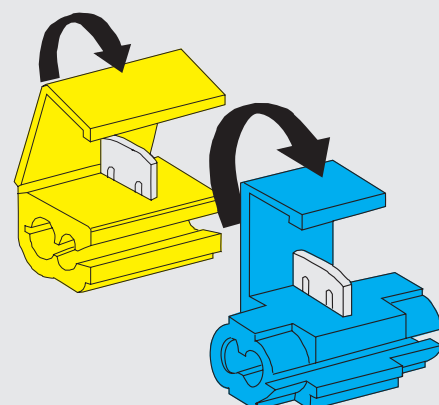
Branch terminal IDC for tab connectors

Art. No.	Material / contact	Nominal voltage	Current load capacity / max. insulation diameter	Temperature resistance	UL	Conductor cross-section
3924f	 Polyamide/ tinned brass	600 V (AC/DC)	AWG 22 20 18 AMP 3 4 7	to +105°C	E235797	AWG 22–18 0.5 mm ² –1 mm ²
3927f	 Polyamide/ tinned brass	600 V (AC/DC)	AWG 18 16 14 AMP 7 10 15	to +105°C	E235797	AWG 18–14 1.5 mm ² –2.5 mm ²
3929f	 Polyamide/ tinned brass	600 V (AC/DC)	AWG 12 AMP 20	to +105°C	E235797	AWG 12 4 mm ²

Applications

Insulation displacement connector IDC, insulated

Lighting	Electronics	Mechanical engineering	Contact us Telephone +41 62 285 75 75
			



Principle of operation

Instructions

- Place insulated wires in the openings.
- Connect with pliers held perpendicular to the wires.
- Press the pliers together until the copper fasteners engage.
- for strands:
Close the cover.
 - for tab connectors:
Insert the tab connector fully into the slot.

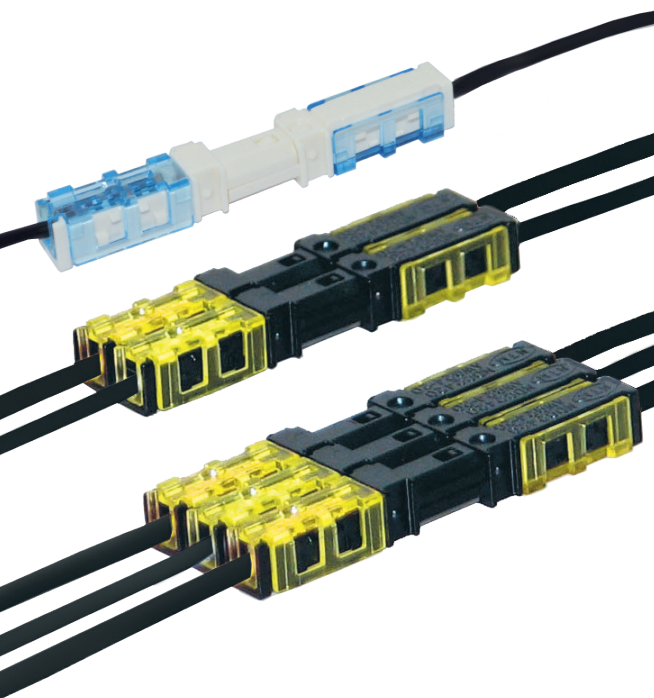
Warning: Switch off the device or remove the plug before installation.

Only use insulated strands. Do not strip the insulation off the strands.

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Plug-in connector IDC, insulated



Easy connection without special tools

Instead of having to strip the insulation off each individual wire, the user can simply insert the cable into the IDC connector. The connector has its own cutting tool. The blades are positioned so that the sharp sections are aligned precisely to the position of the various cables. The components in the robust polycarbonate housing allow a wide range of applications in the low-voltage range from 100 V to 300 V (AC/DC) and 1A to 8A. For multiple lines, too, they enable a convenient and safe mechanical grouping of the connectors by means of the connection plates.

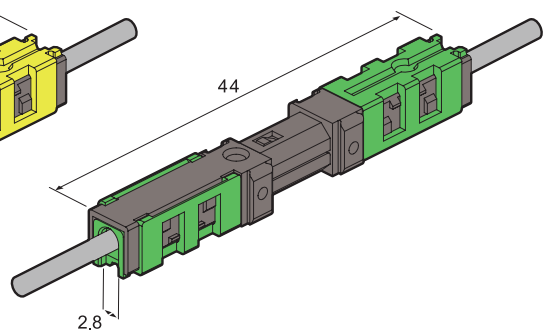
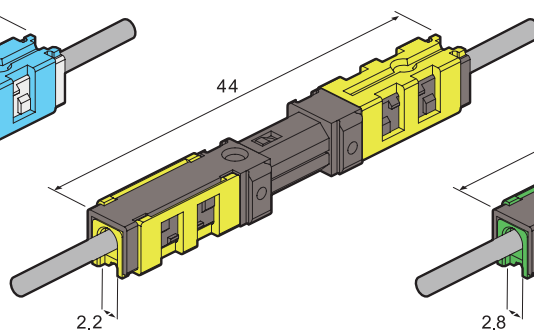
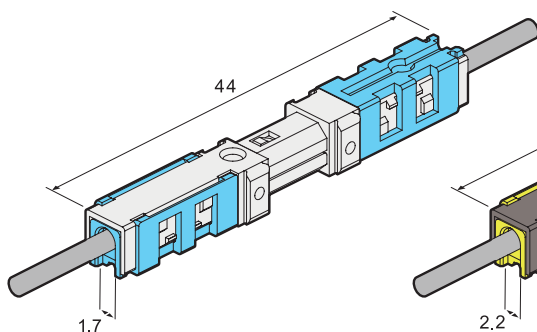
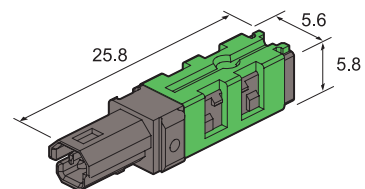
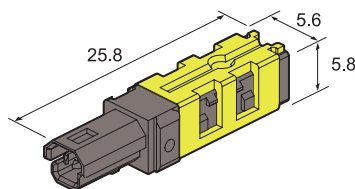
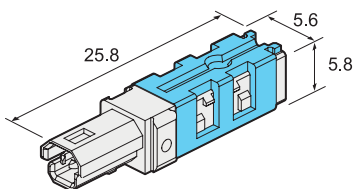
4 benefits for you

UL-certified connection without special tools

No soldering, screwing or wire-stripping are needed

Pluggable, fast, safe and fault-free electrical installation

Detachable connection, tool-free assembly



Technical data

IDC plug-in connector for cables

Art. No.	Material / contact	Nominal voltage	Current load capacity / max. insulation diameter	Temperature resistance	UL	Conductor cross-section
3924p	Polycarbonate / tinned bronze	100 V (AC/DC)	AWG 28 26 24 AMP 1 1 2	-20° C to +75° C	E136883	AWG 28–24 0.08 mm ² –0.2 mm ²
3924n	Polycarbonate / tinned bronze	100 V (AC/DC)	AWG 24 20 AMP 2 3	-20° C to +75° C	E136883	0.2 mm ² –0.5 mm ²
3924r	Polycarbonate / tinned bronze	300 V (AC/DC)	AWG 20 18 AMP 6 8	-20° C to +120° C	-----	AWG 20–18 0.5 mm ² –0.75 mm ²

Accessories for 3924n / 3924 p



Connecting plate, Art. Nr. 3924n.10

Accessories for 3924r

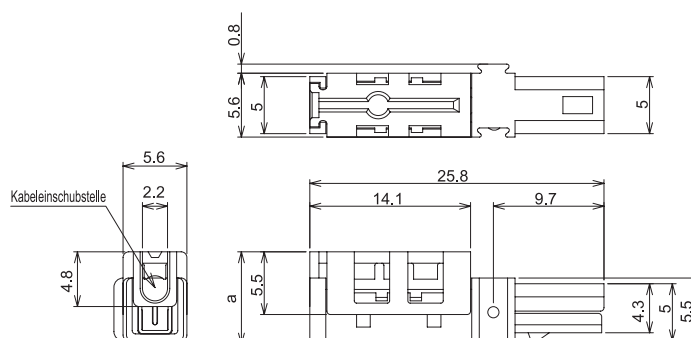


Connecting plate, Art. Nr. 3924r.1

Dimensional drawing

Dimension a: before fastening the IDC (8.1 mm),
after fastening the IDC (5.8 mm)

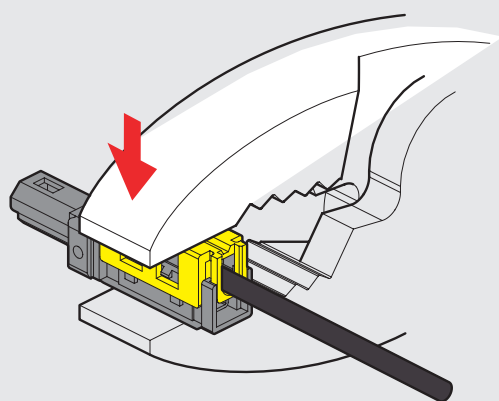
Dimension b: 3924p = 1.7 mm / 3924n = 2.2 mm / 3924r = 2.8 mm
RoHS compliant | dimensions in mm



Applications

IDC plug-in connector for cables

Lighting	Indoor electronics	Do-it-yourself & model-making	Contact us at Tel. +41 62 285 75 75



Operating Guide

Instructions

Insert the cable into the connector.

By pressing and closing the connector with a conventional pair of pliers, the blade comes into contact with the cable.

These blades cut through the insulation and form a connection with the cable. Only use the connector for standard cables.

Use the connector with the specified rated voltage, rated current, temperature resistance and operating temperature.

The work with cables and contacts must only be carried out when the device is switched off.

The connector is not suitable for outdoor use.

The insulation displacement connector may only be used once.

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creating connections

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Facts & Figures

Vogt AG produces single parts and components for electromagnetic applications. It employs more than 100 workers in the fabrication of stamped and fine-tube parts and the manufacture of plastic and wire items, producing around 2 billion articles every year. Vogt AG is an internationally renowned supplier of the electric and electronics industry and is recognised as a reliable, competent, and long-term partner. More than 20,000 parts can be delivered off the shelf from the standard items division. Customised production including design and our own toolmaking completes our sales program. We have been ISO 9001 certified since 1994. Meanwhile, we also hold the ISO 14001, OHSAS 18001, and AEO certificates. Our customers appreciate our fast and reliable global delivery service.



Standard Products

The product range of Vogt AG consists of standard products from the areas of mechanical components and riveting technology, contact parts for printed circuit boards and solder terminals, cable connections as well as associated processing tools. The range is constantly being adapted to market requirements and therefore new technologies such as SMD are automatically being introduced into our product range.

Customer requirements such as the renowned reliable product quality are a matter of course for us, with our high warehouse availability giving us a clear competitive edge. Our professional customer consultancy is as individual and precise as the requirements themselves.



Special Products

In the areas of tube and wire manufacture, stamping and injection moulding, we work with you to create the appropriate product. We specialise in complex hybrid components (plastic/metal components), tube and wire parts and stamped products.

Our products are designed and the associated tools made in-house; this ensures that they can be manufactured reliably using machinery, some of which we have developed or upgraded ourselves. The range of services we provide extends to labelling, packaging, inland and overseas delivery, etc.



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