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An appliance coupler system for white goods and related appliances with voltages up to 250V

UACS1

UNGER APPLIANCE CONNECTION SYSTEM

Reduce costs of your appliance coupler system up to:



- 30%

<http://www.uacs.de>

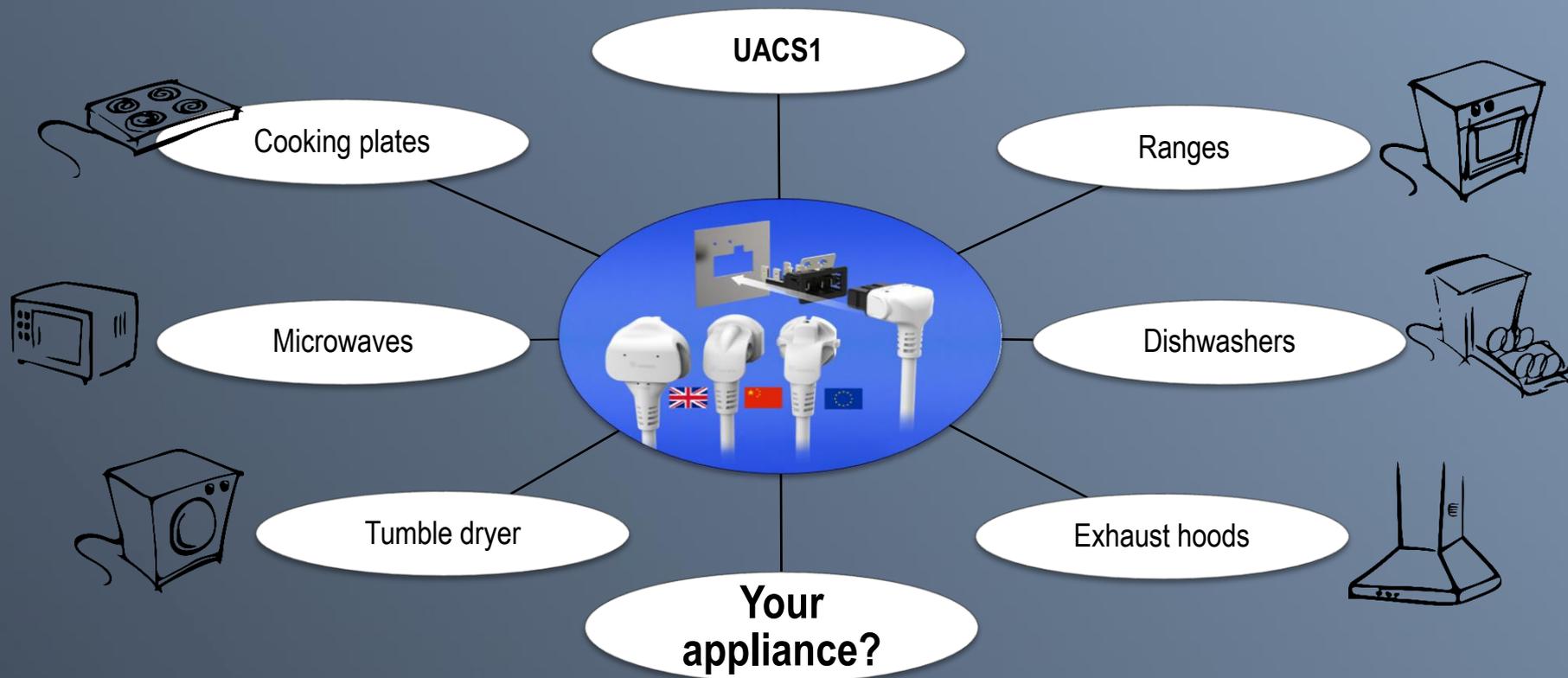
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application options
of the appliance coupler system
UACS1 by Unger KKT:

The appliance coupler system UACS1 allows its users to connect all kinds of electrical appliances of the protection class I (appliances with protective earth) to each country-specific power network up to 250V.





advantages
of the appliance coupler system
UACS1 by Unger KKT:

UACS1 – a smart universal appliance coupler system with money saving guarantee:

- ✓ **Up to 30% cost reduction** compared to conventional appliance coupler systems
- ✓ **Highest supply safety and quality class** because of fully automatic production in Germany
- ✓ **Reduction of assembly components** because of a standardized power connection
- ✓ To handle **Country-specific power cords** during the production process **can be omitted**:
unique appliance inlet + country-specific power cord = country-specific appliance connection
- ✓ Advances fully automatic appliance production and appliance check
- ✓ Substitution of the existing appliance power connection without changing the outlet by the use of an adapter
- ✓ Competent **application advice** by the development team of UACS1

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

You can connect your electrical appliances and the power socket with a standardized power cord in the required country-specific specifications. The characterization is suitable for single phase power connections up to 250V / 16A AC.



application example 01:
power connection with CEE 7/7 power plug (EU) +
appliance connection with angled appliance connector and short
appliance inlet



application example 02:
power connection with UK- plug +
appliance connection with straight appliance connector and long
appliance inlet

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

UACS1 offers you multiple country-specific variants of power plugs with a special design and additional parts for more safety.

Application example 03:
CEE 7/7 power plug Europe



Application example 04:
Type I power plug China



Application example 5:
BS 1363 power plug UK



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advantages
of the appliance coupler system
UACS1 by Unger KKT:

You can choose each country-specific power plug with a cable in a freely configurable length and a straight or angled version of the appliance connector.



Application example 06:
Connection with angled appliance connector UACS1a
for 6/10/16 A and max. cable sheath temperatures up to 70/90 ° C



Application example 06:
Connection with straight appliance connector UACS1s
for 6/10/16 A and max. cable sheath temperatures up to 70/90 ° C

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

Because of its many types of appliance inlets, UACS1 allows you to solve the power connection of your appliances in a optimal way:



Application example 08:
short appliance inlet UACS1m M1



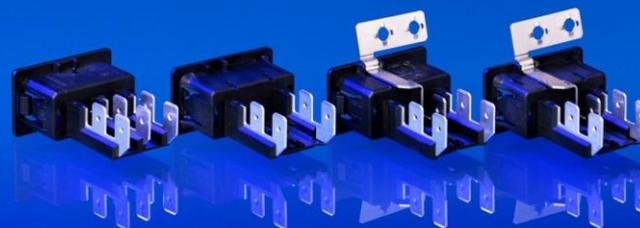
Application example 12:
short appliance inlet UACS1m M3



Application example 11:
short appliance inlet TIS for
soldering



Application example 09:
short appliance inlet UACS1k



Application example 13:
long appliance inlets from the left to the right:
TIS 3 x 6,3 ; UACS1v without PE ;
TIS with screwable PE ; UACS1v with screwable PE



Application example 10:
short appliance inlet UACS1m M2

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

The appliance coupler system UACS1 has a uniform plug face on its short and long versions. That means practically, that you can use the same power cords for several kinds of appliances together with different types of the appliance inlets.



picture 01:
angled appliance connector + long appliance inlet

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

UACS1 has a unique coding system, which allows only connections with the right current and cable temperature configuration. This ensures **electrical and thermal safety**, because it makes it for example impossible to connect an appliance, which needs a current of 16A with a power cord for max. 6A.



picture 02:
to the left: appliance inlet
with 16A / 70 °C coding

to the right: appliance connector
with 16A / 70 °C coding

	6A/250V	10A/250V	16A/250V
70 °C			
90 °C			
120 °C			

picture 03:
coding system UACS1

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

The high number of different appliance inlets allows you also to adapt the power connection to the characteristics of your appliance. There are many options:

- Soldering the appliance inlet on the internal pcb-plate
- Snap in the appliance inlet in an electrical box or in the appliance case, if it is made of metal
- Inlets with one or two flat-quick tab terminations per contact
- Options of PE-connection to the appliance case: screwing, clamping or plugging a cord set

However you choose, you will generate **a maximum of safety and lowest production costs:**



Application example 14:
appliance inlet TIS for
soldering on a pcb-plate



Application example 15:
appliance inlet UACS1i -
suitable for mounting in an
electrical box



Application example 16:
appliance inlet UACS1k -
suitable for mounting in a
small electrical box



Application example 17:
appliance inlet UACS1v -
suitable for snap in mounting into
an appliance case



Application example 18:
appliance inlet UACS1m M2 -
PE connection to the appliance
case by screwing



Application example 19:
appliance inlet UACS1m M3 -
PE connection to the appliance
case by clamping

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advantages
of the appliance coupler system
UACS1 by Unger KKT:

The reliability of the appliance coupler system is guaranteed up to an operating current of 16 A due to the optimal geometry, material and surface matching of the contacts:

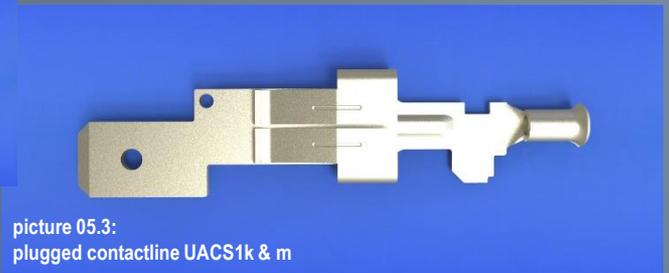
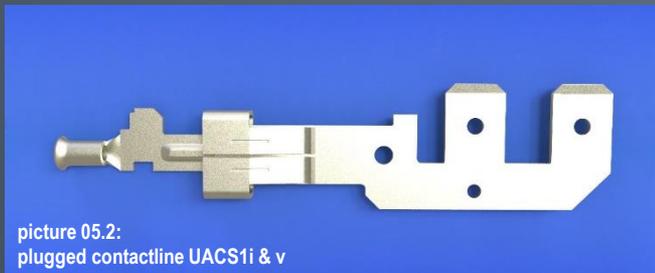
picture 04:

The Inlets with flat-quick tab terminations consist of solid brass (CuZn 36/37). It's surface is silver/nickel-plated. This guarantees **maximum of current carrying capacity** with **the lowest contact resistance** and **highest mechanical stability**.



picture 05:

The Timer-contacts of the appliance connector consist of a copper-nickel alloy (CuNiSi). It's surface is silvered. Because of this optimal material-geometry matching the Timer-contact comes with an **excellent current carrying capacity**, **lowest transition resistance** and **contact resistance**.



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advantages
of the appliance coupler system
UACS1 by Unger KKT:

Not only your purchasing, production and logistics profit by use of the appliance coupler system UACS1. Your **quality department** will also generate sustainable **advantages** by using the complete system.



Application example 20:

The appliance inlet UACS1v has an innovative 4-point snap in system . This leads to an easier **mounting** (plug in force < 40N) and a **permanent safe fixation** (pull out forces of the appliance inlet out of the appliance case > 200N).

The appliance inlet UACS1 has also an additional plug in lock, which prevents for connecting the power cord when the appliance inlet isn't mounted properly.

So we can guarantee you 100% safety for your appliance and the appliance users.

Application example 21:

UACS1 offers you multiple choices to realize the connection between the PE-contact of the appliance inlet and the appliance case. Of course you can use an internal cord set for plugging on flat-quick tab terminations or you can fix the PE contact with screws. But these two possibilities of fixing the **PE-connection** are causing problems to guaranteeing a permanent high quality level during the production process.

The so called „**Powerkontaktklemmfeder (PKKF)**“ is a **new certified variant**, which has been developed by UNGER KKT. The PKKF is designed to combine an easy mounting (The PE-connection is realized only by plugging the appliance inlet) and a PE connection with a **permanent low electrical resistance**. So it has **clearly lower risk priority numbers** than screwing or plugging an internal cord set.



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advantages
of the appliance coupler system
UACS1 by Unger KKT:

The main advantage of UACS1 during the production and logistics process is about producing your **appliances in high batches** without considering power network connection. So **country-unspecific** appliances can be produced and checked with the help of a testing adapter. In the best case the country-specific power cord is enclosed at the logistics center.



Picture 04:
testing adapter for UACS1 appliance coupler system

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advantages
of the appliance coupler system
UACS1 by Unger KKT:



We offer you:

- ✓ VDE certificated appliance coupler system
- ✓ Highest quality and supply reliability
- ✓ Best price guaranty
- ✓ Support by our development team
- ✓ Longtime experience in assembling cables and plugs for many notable producers of electric and electronic appliances
- ✓ Additional accessories/documents at our homepage:
<http://www.unger-kabelkonfektion.de> or on demand

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Thanks a lot FOR YOUR TRUST!



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