Cable fanning element for cable relief and cable sleeve support

Short profile:

Every electrical device with power cord requires for its save function according to the DIN/VDE regulations – e.g. DIN EN 60335-1 Safety of household appliances – at least:

- **one power cord with sleeve support**
  &
- **one cable relief.**

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Current situation in the field of small equipment for white goods:

A variety of manufacturer of small equipment for white goods purchase power cords from their cable supplier with plug and on the other side with partial stripping of the isolation.
The strands on the unit-side can be partial or fully stripped and with or without ferrule.
Depending on the device, the power cord must be lead through the housing provided with cable sleeve support and cable relief and must be connected.
These tasks are mostly **handwork** for the manufacturers, which causes **high costs** and a **changeable quality.**

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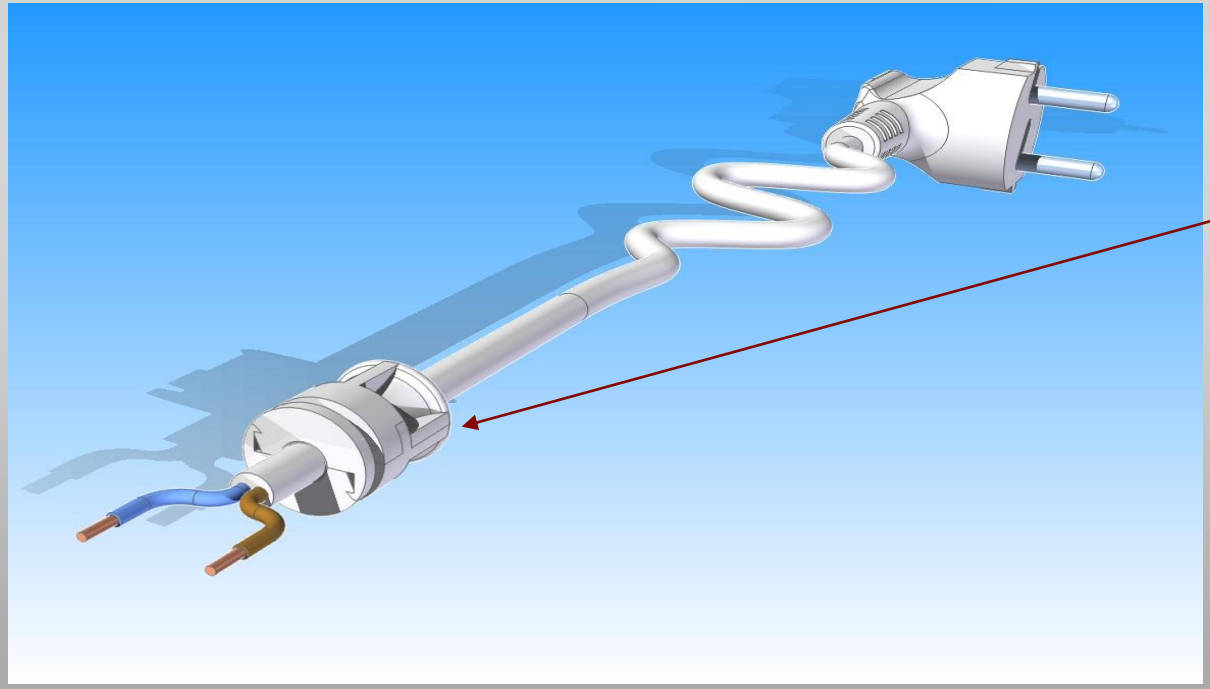
Description of the new development:

A new developed cable fanning element takes over the cable relief and cable sleeve of the power cord.
Additional it makes it easier to lead and fix the power cord in the housing under consideration of the creative features of the appliance.



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Advantages for the manufacturer through the usage of the cable fanning element:

- ✓ Cable relief and cable sleeve support accordingly to the standards (*) in one element -> **Reduction in costs for the components**
- ✓ Cable relief and cable sleeve support accordingly to the standards (*) in one element -> **Reduction in costs for the assembly**
- ✓ Cable relief and cable sleeve support are designed towards the requirements of an fully automated production-> **Reduction in costs through the automation**
- ✓ Design and color of the cable fanning element are variable-> **attractive design even for the components of the appliance connection system**

*** Standards according to DIN EN 60335-1 – Safety of electrical devices for the household use-**

weight of the device (kg)	Tensile force (N)	Torsional moment (Nm)
≤ 1	30	0,1
> 1 und ≤ 4	60	0,25
> 4	100	0,35

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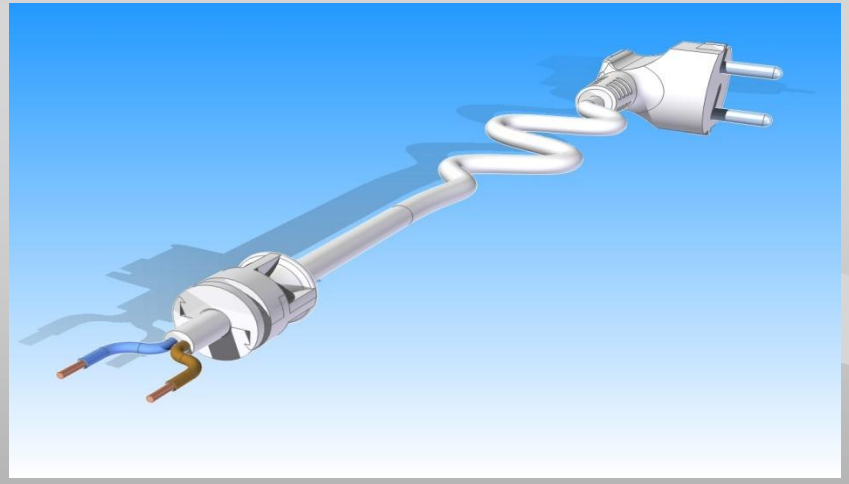
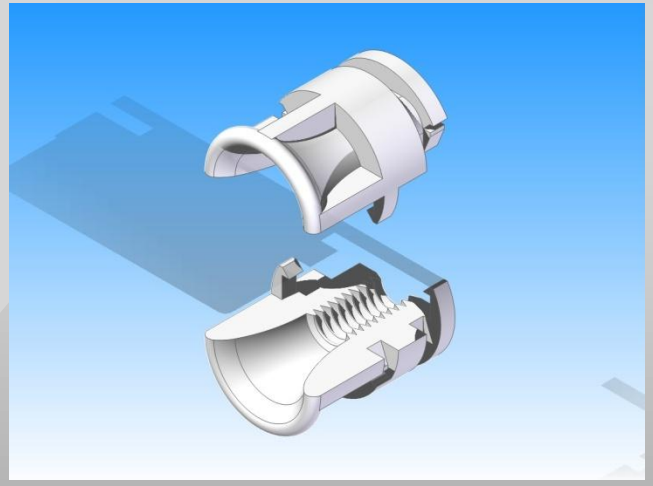
Call option of the cable fanning element:

Customers of the Unger Kabelkonfektionstechnik GmbH & Co KG can purchase their power cards as:

Mounted complete system consisting of:
cable fanning element + Schuko plug + power cord + finished unit-side



Individual components for self-assembly consisting of:
cable fanning element + power cord



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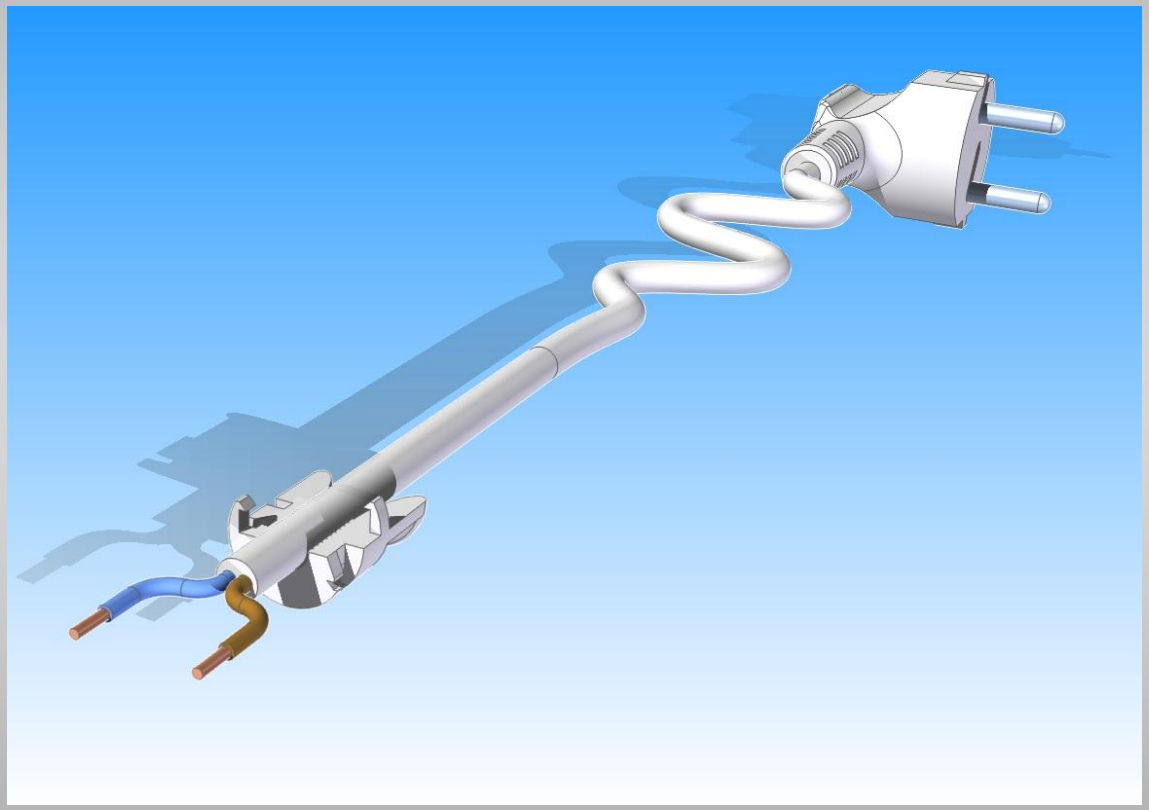
Simply assembly of the cable fanning element in just 3 steps:

1. Step: lead the power cord into the bottom of the cable fanning element



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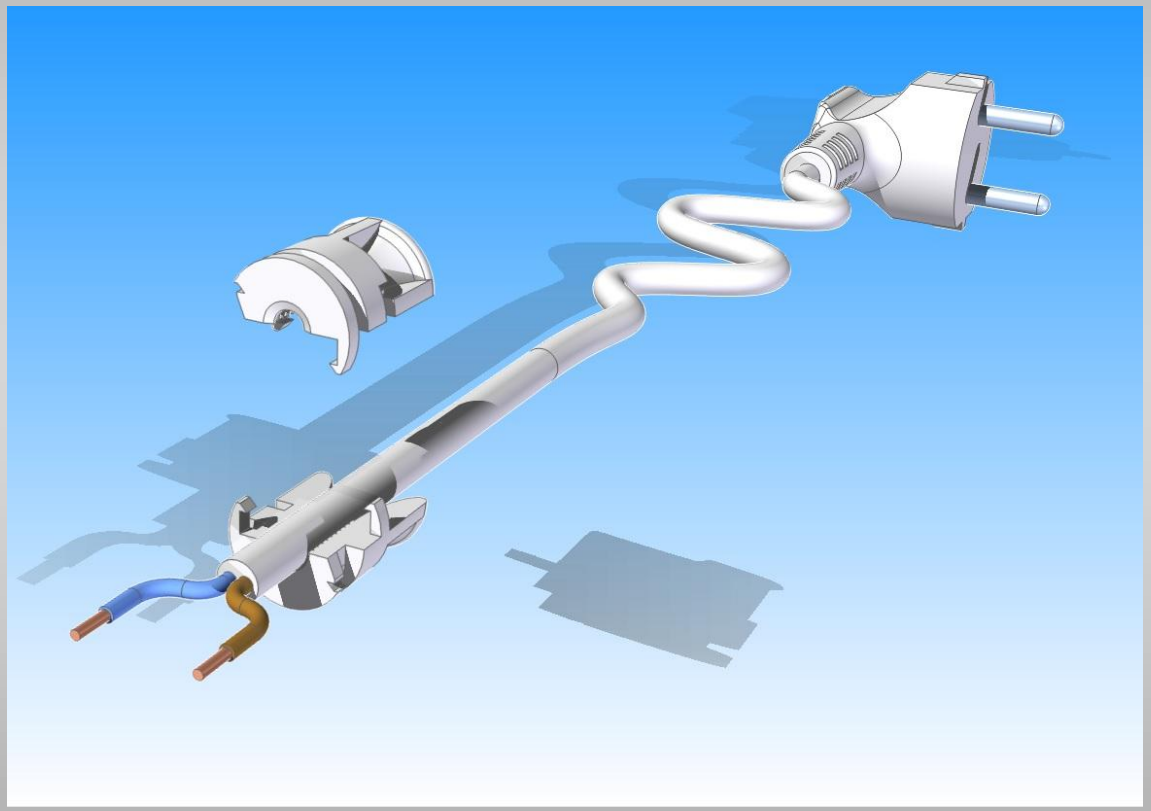
Simply assembly of the cable fanning element in just 3 steps:

2. Step: Assembly of the top cable fanning element



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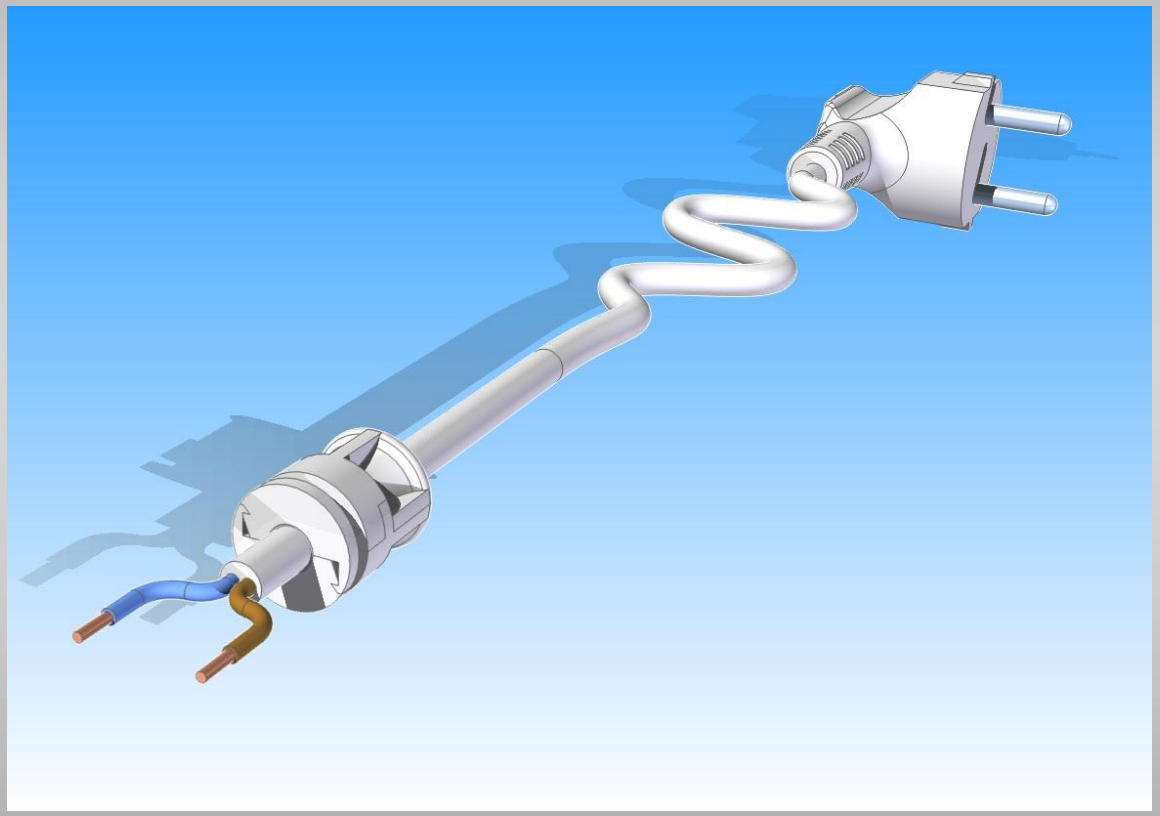
Simply assembly of the cable fanning element in just 3 steps:

3. Step: Catch mechanism of the cable fanning element



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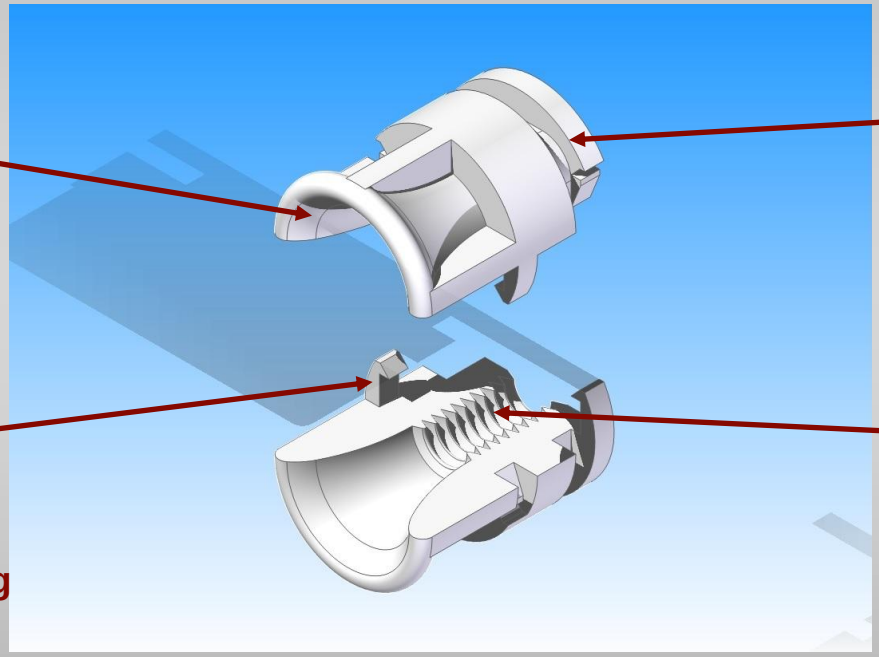
Details of the cable fanning element:

Optimized cable sleeve support through the use of the yield point under bending stress

Optimized connection of the housing with the cable fanning element through interlocking geometries



Optimized bonded connection of the bottom and top of the cable fanning element trough inner catch mechanism

Optimized force- and form-fit connection between power cord and cable fanning element through special geometries of the fixation

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Example system costs:

Preisstaffel	500.000	Stk.	0,2655 €
Clip incl. Montage	1.000.000	Stk.	0,1677 €
	1.500.000	Stk.	0,1351 €

Preisstaffel	500.000	Stk.	0,1881 €
Clip excl. Montage	1.000.000	Stk.	0,1284 €
	1.500.000	Stk.	0,1084 €

Advice:

Please pay attention to further savings:

- ✓ Less costs towards the single elements of cable relief and cable sleeve support

&

- ✓ Savings in assembly and logistics

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Do you have any further problems with connections systems towards this context which habe to be solved?

Please contact us.
We will be pleased to help you with an optimized solution.

Thank you for the attention!
Your sales team of the Unger Kabel-Konfektionstechnik GmbH & Co KG!

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