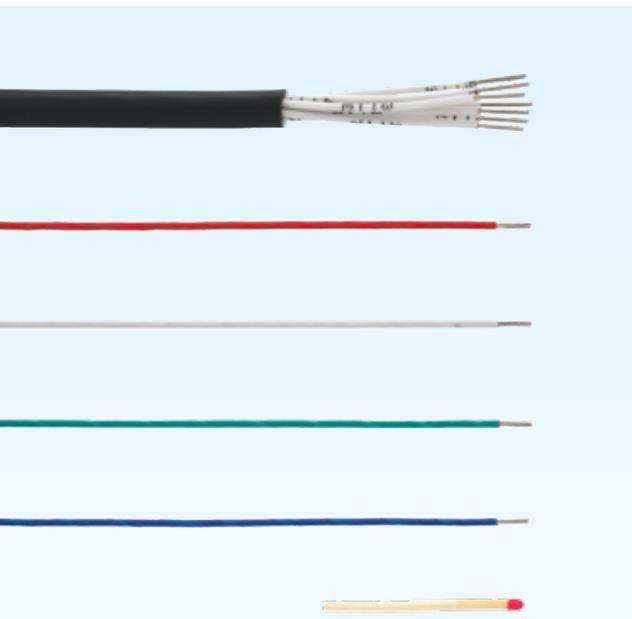


## HEW-FILO® therm 105, 125, 180, 180 HT



### Compact solution for sensitive areas

– halogen-free and flame-resistant

Higher performance in less space: HEW-FILO® therm optimally meets this double demand. The halogen-free and flame-resistant innovation was developed especially for sensitive areas of utilization and offers new prospects for more compact and more powerful modes of construction.

HEW-FILO® therm combines a dielectric material with a newly developed adhesive formula. The result is a unique insulant with outstanding mechanical qualities. It moreover features such excellent chemical resistance that the cables in this series can endure even the harshest environments. Further important properties are extreme abrasion resistance and the e-module.

### Wall thickness reduced to one third

In comparison to conventional insulation materials such as PVC, HEW-FILO® therm allows the reduction of the wall thickness to one third! The desire for maximum flexibility could not be better fulfilled: the savings in volume makes way for especially compact designs and improved power density.

In order to cover a wide range of utilization, the conductors are available in every conceivable make – tinned copper, silver and/or nickel-plated, metric and AWG.

As a yardstick for this product's requirement profile, we used the rigorous standards of the German military. In keeping with VG 95218, the cables were put to the acid test. The results of an independent testing lab are outstanding and confirm HEW-FILO® therm unrestricted operability. It is thus predestined for utilization in the following areas:

- > railway technology
- > military technology
- > control cabinet connection
- > automation
- > fossil oil exploration

In these and other sensitive areas, HEW-FILO® therm gives all users the reassuring sense of the greatest possible safety.

### The advantages of the new product series:

- > extreme mechanical stability (even superior to materials such as ETFE)
- > high resistance to chemicals
- > ideal solution as small-scale cable and conductors for high packing and power densities
- > compact design for greater flexibility of cables and conductors (example: a conductor of 50% smaller dimensions is over 90% more flexible)
- > depending on requirement profile, combination with further elements such as transmission and bus lines possible

HEW-FILO® therm is the result of forty-five years of experience in the manufacture of special cable types at HEW. Take advantage of this innovative strength and tell us about your individual requirement profile. We'll get right back to you with an offer.

#### Material properties HEW-FILO® therm

	105	125	180	180 HT
Temperature index 20.000 h*	105 °C	125 °C	180 °C	180 °C
Temperature index 3.000 h*	125 °C	150 °C	205 °C	215 °C
Abrasion resistance	++	++	+	+
Notch impact strength	+	++	++	++
Resistance to chemicals	+	+	++	++
Hydrolysis resistance	o	+	++	++
Oil resistance	++	++	++	++
Flame retardant	++	++	+	+
Halogen-free	✓	✓	✓	✓
RoHS compliant	✓	✓	✓	✓
REACH compliant	✓	✓	✓	✓
* Acc. to DIN EN 60216 & ASTM-D 3032				
Construction	Cu conductor (solid or stranded), insulated with a special coated film			
Conductor cross-sections	AWG and metric in blank tinned copper or plated with silver, nickel or an alloy			
Colour coding	10 colours			
Operating voltage	600V (depending on requirements)			