

UNSHIELDED HIGH VOLTAGE / WIDE TEMPERATURE RANGE PFA WIRE 2kV_{DC} / AWG26 - AWG24

FEATURES

- Operating Temperature: -100°C up to +250°C
- PFA Dielectric
- High Flexibility
- 26 AWG - 24 AWG Conductors
- Silver Plated or Nickel Plated Stranded Copper Wires
- Resistant to UV, Ozone, Weather and Oil
- RoHS Compliant

TYPICAL APPLICATIONS

- Wiring in Hot or Cold Environment
- Wiring in Abrasive Environment, eg. Moisture or Chemicals
- Wiring in Confined Spaces

Perfluoroalkoxy Alkane (PFA) offers an excellent combination of properties that are similar to those of polytetrafluoroethylene (PTFE). PFA wires have better anti-stick properties and higher chemical resistance. They are preferred when extended service is required in hostile environments involving chemical, thermal, and mechanical stress. Compared to FEP, they are more capable to withstand repeated bending without fracture.

The HPA series includes unshielded high voltage wires with conductor made of stranded copper wires and PFA dielectric. The copper wires are silver plated or nickel plated, resulting in two different operating temperature ranges: up to 205°C or 250°C respectively.

TECHNICAL DATA

Rated Voltage	2kV _{DC}
Test Voltage	4kV _{DC}
Conductor ..-AG-.. types	Silver plated stranded copper wires
Conductor ..-NI-.. types	Nickel plated stranded copper wires
Dielectric	PFA
min. Bend Radius	8 * Outer Diameter (moving) 4 * Outer Diameter (fixed installation)
Operating Temperature ..-AG-.. types	-100°C - +205°C (fixed installation)
Operating Temperature ..-NI-.. types	-100°C - +250°C (fixed installation)
RoHS Compliant	Yes

TYPE OVERVIEW

TYPE	RATED VOLTAGE [kV _{DC}]	SIZE [AWG]	STRANDS [n/AWG]	CONDUCTOR PLATING	OUTER DIAMETER [mm]
HPA-0226-7-AG-0	2	26	7/34	Ag	1.30 ±0.10
HPA-0224-19-AG-0	2	24	19/36	Ag	3.10 ±0.15
HPA-0224-19-NI-0	2	24	19/36	Ni	3.10 ±0.15

Other conductor constructions are available on request.

▪ ORDERING INFORMATION

Ordering example for part number: **HPA-0226-7-AG-0**

HPA	-	02		26	-	7	-	AG	-	0
Base Part Designation		Voltage Rating [kV _{DC}]		Conductor Size [AWG]		No. of Strands		Conductor Plating		Color Code (black)

The HPA series wires are normally not stocked. Minimum order quantity may apply for certain types.

It is recommended to derate the operating voltage for continuous operation. The user has to ensure by adequate tests that the cable is suitable for his application.

▪ HPA SERIES CROSS SECTION VIEWS



HPA-0226-7-AG-0



HPA-0224-19-AG-0



HPA-0224-19-NI-0

Disclaimer

The information given in this data sheet is technical data, not assured product characteristics. It has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. The user has to ensure by adequate tests that the product is suitable for his application regarding safety and technical aspects. hivolt.de GmbH & Co. KG does not assume any liability arising out of the application or use of any product described.

Safety Advice

Design, installation and inspection of machinery and devices carrying high voltage require accordingly trained and qualified personnel. Appropriate safety rules and directives must be complied with. Improper handling of high voltage can mean severe injuries or death and may cause serious collateral damage!