

UNSHIELDED HIGH VOLTAGE / WIDE TEMPERATURE RANGE WIRE 6 - 30kV_{DC} – FEP – INTERNAL USE

FEATURES

- Operating Temperature: -65°C up to +200°C
- FEP Dielectric
- High Flexibility
- Silver Plated Stranded Copper Wires
- Resistant to UV, Ozone, Weather and Oil
- RoHS Compliant

TYPICAL APPLICATIONS

- Wiring in Hot or Cold Environments
- Wiring in Chemically Aggressive Environments
- Wiring in Confined Spaces

Fluorinated Ethylene Propylene (FEP) offers an excellent combination of properties that are similar to those of polytetrafluoroethylene (PTFE). FEP 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.

The HPB series includes unshielded high voltage wires with conductors made of stranded silver-plated copper wires and FEP dielectric, resulting in a high operating temperature range of -65 to +200°C.

TECHNICAL DATA

Conductor	Silver plated stranded copper wires
Dielectric	FEP
min. Bend Radius	8 * Outer Diameter (moving) 4 * Outer Diameter (fixed installation)
Operating Temperature	-65°C - +200°C (fixed installation)
RoHS Compliant	Yes

TYPE OVERVIEW

TYPE	RATED VOLTAGE [kV _{DC}]	TEST VOLTAGE SPARK TEST [kV _{AC}]	SIZE [AWG]	STRANDS [n/AWG]	OUTER DIAMETER [mm]
HPB-0620-19-AG-9	6	10	20	19/32	2.15 ±0.15
HPB-1018-19-AG-10	10	5	18	19/30	1.75 ±0.1
HPB-1022-19-AG-10	10	5	22	19/34	1.26 ±0.1
HPB-1822-19-AG-10	18	6	22	19/34	1.40 ±0.1
HPB-1824-19-AG-10	18	6	24	19/36	1.27 ±0.1
HPB-3020-19-AG-10	30	20	20	19/32	2.54 ±0.15

Other conductor sizes are available on request.

■ ORDERING INFORMATION

Part number example: **HPB-3020-19-AG-10**

HPB	-	30	20	-	19	-	AG	-	10
Base Part Designation		Voltage Rating [kV _{DC}]	Conductor Size [AWG]		No. of Strands		Conductor Plating		Color Code

The HPB series wires are not usually stocked. Minimum order quantity may apply to certain types.

■ COLOR CODE

0 black	1 brown	2 red	3 orange	4 yellow	5 green
6 blue	7 violet	8 grey	9 white	10 natural	

Preferred colors shown in **bold**.

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 must verify by appropriate testing that the product is suitable for the intended application in terms of safety and technical requirements. 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 appropriately trained and qualified personnel. Appropriate safety rules and directives must be complied with. Improper handling of high voltage can result in severe injury or death and may cause serious collateral damage!