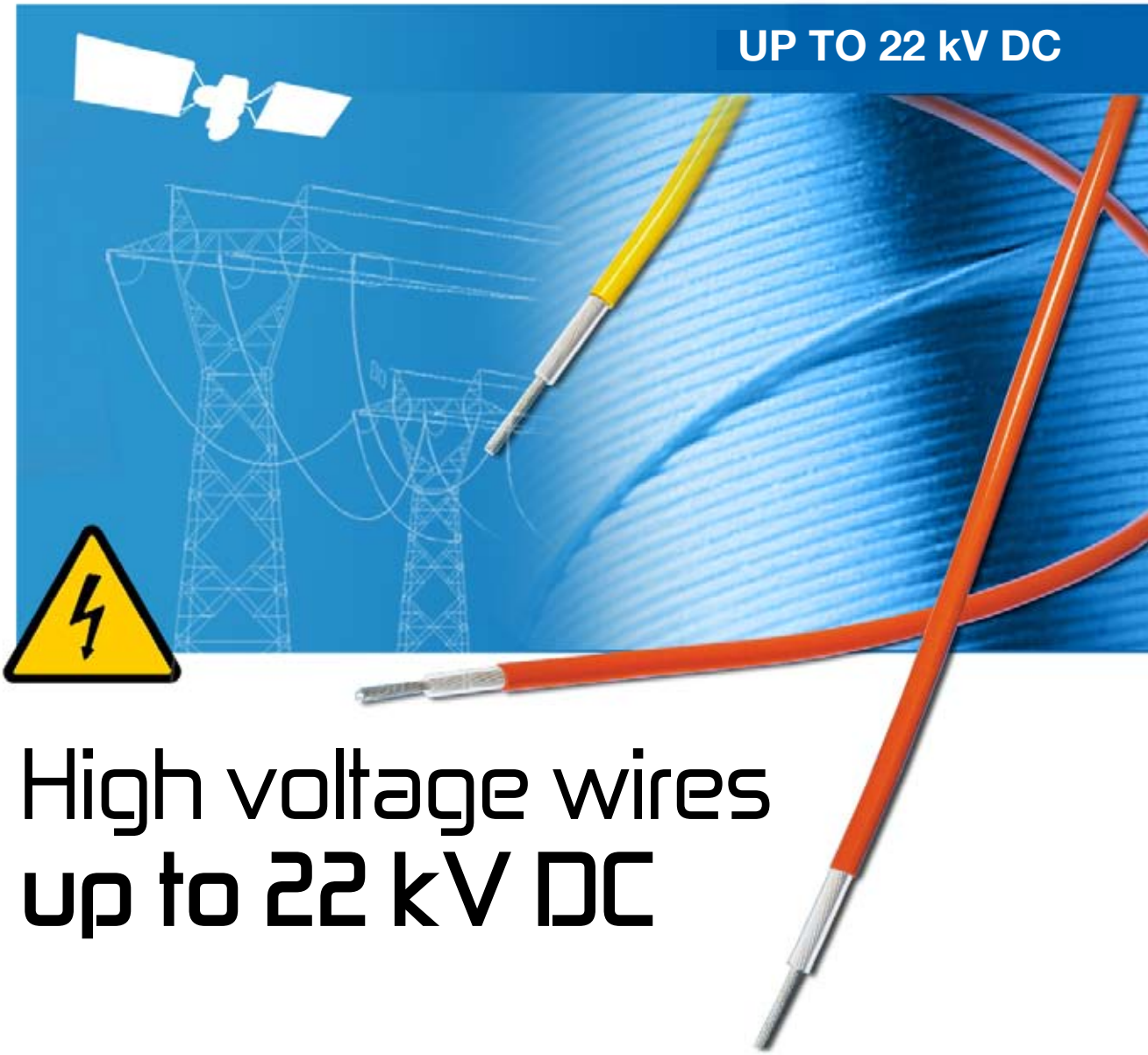

High voltage wires
up to 22 kV DC

ADVANTAGES

> Small external diameter : 1.00 to 2.50 mm.
> High voltage up to 22 kV DC.
> Operating voltage applicable from sea level to 21 000 m (70,000 ft).
> Made in Europe.

GENERAL CHARACTERISTICS

> Conductor : silver plated copper or tin plated copper.
> Insulation : FEP or FEP coating with silicone (excellent bonding with silicone potting).
> Temperature rating : -55°C to +125°C.

APPLICATIONS

> Travelling wave tubes, radar, laser systems, Cathode Ray Tubes (CRT), High energy physics research, analytical instruments.
> Airborne, Space, Military, Medical.

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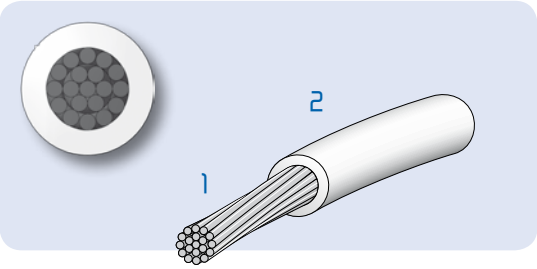
axon' CABLE & INTERCONNECT

High voltage wires
up to 22 kV DC

CONSTRUCTION EXAMPLES

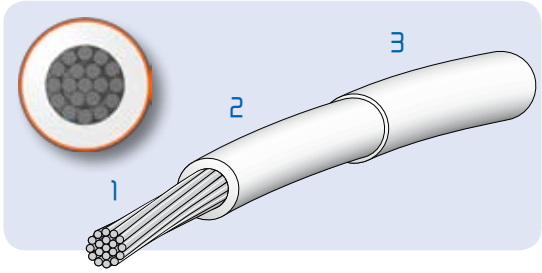
FEP INSULATED WIRES



1 - Conductor
2 – FEP insulation

AXON' REFERENCE	OPERATING VOLTAGE kV DC	CONDUCTOR		NOM. OUTER Ø mm
		AWG	CONSTRUCTION (nb x Ø mm)	
K18HV2419 CuAg	18	24	19x0.127	1.27
K20HV2219 CuAg	20	22	19x0.160	1.52

SILICONE COATED FEP INSULATED WIRES



1 - Conductor
2 – FEP insulation
3 - Silicone coating

AXON' REFERENCE	OPERATING VOLTAGE kV DC	CONDUCTOR		NOM. OUTER Ø mm
		AWG	CONSTRUCTION (nb x Ø mm)	
KSI18HV2419 CuAg	18	24	19x0.127	1.52
KSI20HV2219 CuAg	20	22	19x0.160	1.78

Other constructions are available

FEP TECHNICAL CHARACTERISTICS

> Excellent dielectric strength,
> Excellent durability & resistance to dielectric/cooling fluid degradation,
> Excellent resistance to chemical agents,
> Good mechanical resistance,
> Low coefficient of friction,
> Low flammability.

SILICONE COATED FEP WIRE ADVANTAGES
> Compatible with most silicone encapsulation materials (RTV),
> For high or low voltage terminations.

QUALIFICATION AND CONTROL

> Qualification according to customer requirements,
> Specialised quality control for high voltage,
- Partial Discharge Control (DPs), method of assessing the quality of the insulation of power cable systems. Predictive qualitative analysis that can wam of potential upcoming system failure. Tests of partial discharge measurements are conducted on all our batches by sampling to ensure the good performance of our wires
- Vacuum test for flight simulation,
- Dielectric strength.

For any custom-designed request, do not hesitate to contact us.

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