

# KIRAN KVPI 200



QUALITY CERTIFICATIONS

## VPI SILICON COATED FIBERGLASS SLEEVING

UL recognized GRADE "A" component under UL File No. # E324343 (UZFT2) and NEMA TF - 1 Type 5, Silicon Elastomer Coated Fiberglass Sleeving are flexible with an outer layer of Fiberglass braid. The over braid bonding process adheres the over braid to the silicon coated substrate and minimizes end fray to improve assembly performance and eliminate the long term handling effects of operator dermatitis. KIRAN KVPI - 200 sleeving is a high temperature Silicon Rubber Elastomer that is pressure bonded to a heat stabilized fiberglass braid.

KIRAN VPI - 200 Silicon Sleeving is resistant to most acids, oils, organic solvents and water. It is also compatible with virtually all Electrical grade varnishes and Impregnation systems suitable for all VPI applications.

### I. FEATURES :

- This double wall sleeving provides higher abrasion resistance and for vacuum pressure impregnation.
- Overlap braid on sleeving being saturated has high resin absorption properties and are highly protective.

PARAMETERS	DETAILS
Thermal Class	"H" Class
Thermal Temperature	-60° C to +200° C
Sizes	2.0mm to 20.0mm
Braid Color	White
Sleeving Color	Natural / Black
Grade & Dielectric Strength	A - 7000 Volts B - 4000 Volts
Length	Continuous or Customized cut lengths available on request.

### II. UNIQUE PROPERTIES :

- Superior Electrical Properties.
- Good Expandability and Flexibility.
- Chemical Resistance.
- Extreme Abrasion Resistance.
- Oil Resistance.
- Self Extinguishable.

### III. TYPICAL APPLICATION :

- Aero Space and Aircraft Wiring.
- Wind Turbines, Solar Panels and Alternator Core Winding.
- High Voltage Transformers.
- Heat Generating Appliances.
- VPI Application.

### STANDARD SPECIFICATIONS

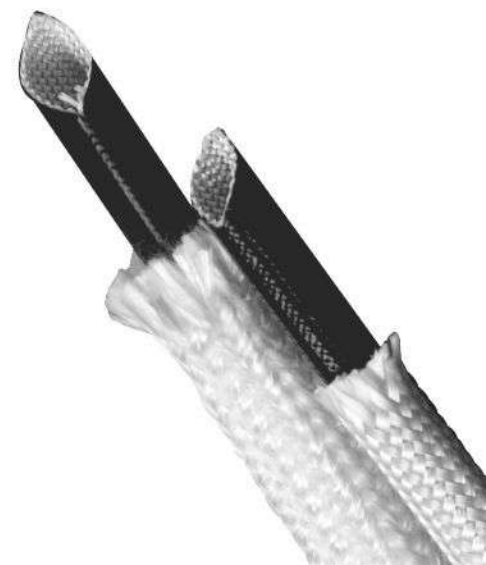


### PRODUCT COMPLIANCES



# KIRAN

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## IV. TECHNICAL CHARACTERISTICS :

SL. No.	Property	Test	Result
1	<b>Heat Resistance</b>	Bending after heating IEC 60684 part 2 Clause 13, 48hrs at +180°C	No Cracking or detachment of coating shall be visible and the original colors shall be clearly recognized.
1.a		UL 1441 – 60days at +190°C	Dielectric Strength after ageing : average break down voltage 5000Volts
2	<b>Flammability</b>	Flame Propagation : IEC 60684 part 2 Clause 26 Method A Vertical with Mandrel	Self Extinguish (within 60 Sec).
2.a		UL 1441 Vertical with Mandrel	Passes
3	<b>Cold Resistance</b>	Bending at Low temperature IEC 60684 part 2 clause 14 at -70°C	No Cracking or detachment of coating shall be visible
3.a		UL 1441 -1Hr at -10°C	No Cracking
4	<b>Chemical Resistance</b>	Simulation of real operating conditions	Compatible with most insulating varnishes.
5	<b>Insulation Resistance</b>	At room Temp. as per IEC 60684	Min. 10 <sup>5</sup> MΩ
		After damp Test as per IEC 60684	Min. 10 <sup>4</sup> MΩ

## V. DIMENSIONS as per IEC 60684:

Part No.	Nominal Bore (AWG)	Nominal Bore (mm)	Bore Tolerance (mm)	Minimum Wall Thickness (mm)	Standard Packing (Mtrs)
2 KVPI200	AWG # 12	2	± 0.40	0.25	100
3 KVPI200	AWG # 09	3	± 0.40	0.35	100
4 KVPI200	AWG # 06	4	± 0.50	0.5	100
5 KVPI200	AWG # 04	5	± 0.50	0.5	100
6 KVPI200	AWG # 03	6	± 0.50	0.5	100
7 KVPI200	AWG # 01	7	± 0.50	0.5	100
8 KVPI200	AWG # 00	8	± 0.50	0.5	100
9 KVPI200	AWG # 1/0	9	± 0.50	0.5	100
10 KVPI200	AWG # 2/0	10	± 0.50	0.65	100
12 KVPI200	AWG # 3/0	12	± 0.50	0.65	50
14 KVPI200	AWG # 250	14	± 1.00	0.65	50
16 KVPI200	AWG # 300	16	± 1.00	0.65	50
18 KVPI200	AWG # 400	18	± 1.00	0.65	50
20 KVPI200	AWG # 500	20	± 1.00	0.65	50

\*\* Other diameters supplied upon request.