

KIRAN SRG 001



QUALITY CERTIFICATIONS

HIGH TEMPERATURE SILICON ELASTOMER COATED FIBERGLASS SLEEVING

UL File No. #E324343/E491961

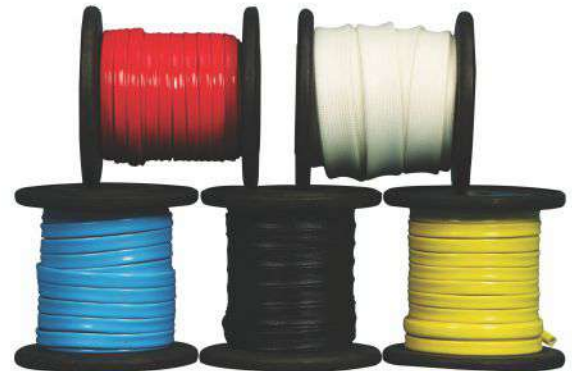
UL recognized GRADE "A" component under UL File No. # E324343 (UZFT2) and Grade-B UL File No. E491961, Silicon Elastomer Coated Fiberglass Sleeving are flexible, conforming to wires and connections, keeping its elasticity in a range between -60°C to +220°C. It can also with stand up to +250°C for a short while.

KIRAN SRG - 001 sleeving is a high temperature Silicon Rubber Elastomer that is pressure bonded to a heat stabilized fiberglass braid. Its outstanding flexibility allows to withstand severe push-back, even in lower dielectric grades. KIRAN SRG - 001 sleeving is the ideal insulation where sharp bends are encountered or the ability to expand over irregular shaped parts is required. The electrical strength stays higher even after folding and bending. The sleeving have excellent abrasion resistance, flame retardant and are physically tough. It can with stand high difference in temperatures and being moisture resistant, prevents humidity to enhance the life of the generator / motor.

PARAMETERS	DETAILS
Thermal Class	"H" Class
Thermal Temperature	-60° C to +180° C
Sizes	0.50mm to 40.0mm
Color	Available in different colors on request
Grade & Dielectric Strength	A - Above 7000 Volts
	B - 4000 Volts
	C - 2500 Volts
	C1 - 1500 Volts
	C2 - Less than 1500 Volts
Length	Continuous or Customized cut lengths available on request.

I. FEATURES :

- Excellent low temperature flexibility with outstanding flame retardant properties.
- Resistant to acids, alkalis, organic solvents and aliphatic hydrocarbon.





II. UNIQUE PROPERTIES

- Superior Electrical Properties.
- Good Expandability and Flexibility
- Chemical Resistant
- Extreme Abrasions Resistant.
- Oil Resistant
- Self Extinguishable.

III. TYPICAL APPLICATION

- Two & Four Wheeler Wiring Harness
- Alternator Core Winding
- Transformers Lead Wire Protection
- Wind Generators
- Motor and Generator Lead Wire Protection.

MANUFACTURING STANDARD



PRODUCT COMPLIANCES



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IV. TECHNICAL CHARACTERISTICS :

SL. No.	Property	Test	Result
1	Heat Resistance	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	Flammability	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	Cold Resistance	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	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes.
5	Insulation Resistance	At room Temp. as per IEC 60684	Min. 10^5 M Ω
		After damp Test as per IEC 60684	Min. 10^4 M Ω

V. DIMENSIONS as per IEC 60684 :

Part No.	Nominal Bore (AWG)	Nominal Bore (mm)	Bore Tolerance (mm)	Minimum Wall Thickness (mm)	Standard Packing (Mtrs)
0.5 SRG001	AWG # 24	0.5	± 0.20	0.25	100
1 SRG001	AWG # 18	1	± 0.20	0.25	100
2 SRG001	AWG # 12	2	± 0.40	0.25	100
3 SRG001	AWG # 09	3	± 0.40	0.35	100
4 SRG001	AWG # 06	4	± 0.50	0.5	100
5 SRG001	AWG # 04	5	± 0.50	0.5	100
6 SRG001	AWG # 03	6	± 0.50	0.5	100
7 SRG001	AWG # 01	7	± 0.50	0.5	100
8 SRG001	AWG # 00	8	± 0.50	0.5	100
9 SRG001	AWG # 1/0	9	± 0.50	0.5	100
10 SRG001	AWG # 2/0	10	± 0.50	0.65	100
12 SRG001	AWG # 3/0	12	± 0.50	0.65	50
14 SRG001	AWG # 250	14	± 1.00	0.65	50
16 SRG001	AWG # 300	16	± 1.00	0.65	50
18 SRG001	AWG # 400	18	± 1.00	0.65	50
20 SRG001	AWG # 500	20	± 1.00	0.65	50
22 SRG001	AWG # 600	22	± 1.00	0.65	25
25 SRG001	AWG # 750	25	± 1.00	0.65	25

** Other diameters supplied upon request.