

# HILFLEX



Silicone Saturated Braid Glass Insulating Sleeveing.



## 111 SERIES

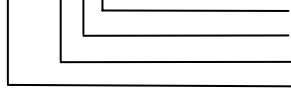
### Standard Colours & Colour Codes

0—Black	
X—Natural	

### Applications

Hilflex 111 is widely used in Class C rated traction motors and transformers for the insulation of winding lead outs and joints and as additional protection over cables. Hilflex 111X is employed as insulation on heating element leads in hot running domestic and heating appliances. Hilflex 111 is used as additional protection where plastic insulated wiring cables enter the hot region of lighting fittings.

HILFLEX-111-4.0-0-CLS



Coil (CLS) Or Pieces (PC)

Colour

Size

Material

- Hilflex 111—(Electric Strength 0.8kV Class C 220°C)
- Hilflex 111X—(Electric Strength 1.6kV Class C 220°C)

### Features and Benefits

Hilflex 111 and 111X insulating sleeveings are manufactured from braided "E" glass yarn impregnated with a silicone resin. The specially formulated silicone resin is applied as an aqueous solution and hence the manufacturing process has no significant environmental hazard.

The minimum size of the glass yarn filaments is greater than 9 microns and offers no health hazard from inhalation.

Both insulating sleeveings are capable of continuous performance at 250°C and will tolerate short term operation up to 450°C.

At temperatures greater than 300°C the silicone resin will be volatilized but will not leave a carbonaceous and conducting residue. Hence, providing the products are not subjected to excessive flexing, the glass sleeveing will continue to offer air gap electric strength in dry conditions.

Hilflex 111X is a double wall sleeveing and will provide a higher level of electric strength.

Hilflex 111 and 111X are fire resistant.

### Performance

Product Description	111	111X
	Class C 220°C	Class H 220°C
Maximum short term temperature	450°C	450°C
Electric Strength at 20°C		
Tested to IEC 684—2	0.8kV/1 min	1.6kV/1 min
ASTM D350	1.5kV	2.5kV
Specifications	IEC 684-3-402	IEC 684-3-402
ASTM D-372	Type 4	
NEMA VS-1	Grade C2	Grade C1
Flamability	Non-ignitable	Non-ignitable
Except voltage proof test		

### Format- Continuous/Cut Lengths

#### Standard Reel Lengths

0.5 – 1.5mm	500 Metres
2.0 – 3.5mm	250 Metres
4.0 – 8.0mm	100 Metres
9.0—25.0mm	50 Metres

*The data given is believed to be correct but it does not form a specification and may be subject to alteration without notification.*

*Hilltop Products (Insulation Sleeveings) Ltd cannot be aware of all the customer applications and processes for our products, hence, Hilltop Products (Insulation Sleeveings) Ltd make no warranty confirming the fitness or suitability of a product for any particular use.*

*Any proposed application of a Hilltop Products (Insulation Sleeveings) Ltd product should be tested and satisfactory performance independently confirmed*