

HILFLEX



Silicone Elastomer Coated Braided
Glass Insulating Sleeving Class H
(180°C).



500 SERIES

Standard Colours & Colour Codes

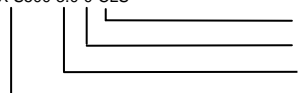
0—Black	4—Yellow
1—Brown	6—Blue
2—Red	X—Natural

(S520 is also available in 8—Grey)

Applications

The Hilflex S500 series find extensive use in high temperature rated domestic appliances, heating appliances and central heating boilers. Their use is for primary and secondary insulation and for the protection of cables and components in high heat zones. The Hilflex S500 series are employed in Class H rated rotating machines for winding lead out and joint insulation and the mechanical toughness ensures their suitability for the insulation of winding leadouts, enabling the enamelled winding wire to be led directly to the terminal box. The Hilflex S500 series are used extensively in the construction of wiring harnesses for use in motor vehicles.

HILFLEX-S500-3.0-0-CLS



Coil (CLS) Or Pieces (PC)

Colour

Size

Material

- Hilflex S500 - 2.0kV grade
- Hilflex S567 (wall thickness 0.7mm) - 4.0kV grade
- Hilflex S520—1.0kV grade
- Hilflex S550/SD550—4.0kV grade
- Hilflex S560 (wall thickness 1.0mm) - 6.0kV grade
- Hilflex S575 - 10.0kV grade

Features and Benefits

The Hilflex S500 series of high temperature insulating sleeveings are manufactured by coating braided "E" glass yarn with a solventless silicone elastomer. The process has no significant environmental hazard. The minimum size of the glass yarn filaments is greater than 9 micron and hence offers no hazard from inhalation.

All Hilflex S500 grades display a high degree of flexibility over the temperature range -60°C to +250°C and will operate continuously at 180°C with a short term rating of 250°C.

Grades are available with electric strengths from 1.0 to 10.0kV.

Hilflex types S567 and S560 have guaranteed minimum wall thickness of 0.7 and 1.0mm respectively to meet Approval Authority Standards.

Hilflex S560 employs a heavy braided glass base and is characterised by extreme mechanical toughness.

The Hilflex S500 series of insulating sleeveings are classed as self-extinguishing .

Performance

Product Description	S500	SD550	S575	S567	S560
Thermal Classification	Class H 180°C	Class H 180°C	Class H 180°C	Class H 180°C	Class H 180°C
Maximum Short Term Tempera-	250°C	250°C	250°C	250°C	250°C
Bore Sizes	1.0 - 25.0mm	1.0 - 25.0mm	4.0 - 20.0mm	1.0 - 25.0mm	2.0 - 22.0mm
Wall Thickness (Min)					
Bore Sizes 1.0 - 7.0mm	0.6mm	0.6mm			
> 8.0mm	0.8mm	0.8mm			
Electric Strength @ 20°C					
Tested to IEC 684 - 2	2.0kV/1 min	4.0kV/1 min	10kV/1 min	4.0kV/1 min	6.0kV/1 min
ASTM D350	2500V				

Format—Continuous/Cut
Lengths

Standard Reel Lengths

1.0 – 3.5mm	250 Metres
4.0 – 8.00mm	100 Metres
9.0 – 25.0mm	50 Metres

Product Description	S550	S520
Specification	UL Recognition CSA Approval UL Rating 200°C	Not Applicable Class H 180°C
Maximum Short Term Temperature	250°C	250°C
Electric Strength @ 20°C	4.0kV/min	1kV/min
UL Rating	600V	
ASTM D350 NEMA US-1	7000V	
Flammability		
SE – Self Extinguishing		SE

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