

# Heat Shrink



Eland Product Group: **FCA**

## APPLICATION

Heat shrink tubing is used on wiring assemblies, splices, terminals, connectors and to moisture proof electrical parts. The product has excellent properties of insulation, abrasion resistance and environmental protection.

## STANDARDS

UL224 105°C, CSA C22.2 No 198.1 OFT, MIL-DTL-23053/5/1



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

## CONSTRUCTION

### Material

Flame retardant Polyolefin to ULVW-1, UL22Y/MIL-1-23053

## DIMENSIONS

ELAND PART NO.	MINIMUM OD SUPPLIED mm	MAXIMUM OD RECOVERED mm	RECOVERED WALL THICKNESS mm
FHS1.2	1.2	0.6	0.41
FHS1.6	1.6	0.8	0.43
FHS2.4	2.4	1.2	0.51
FHS3.2	3.2	1.6	0.51
FHS4.8	4.8	2.4	0.51
FHS6.4	6.4	3.2	0.65
FHS9.5	9.5	4.7	0.65
FHS12.7	12.7	6.4	0.65
FHS19.1	19.1	9.5	0.77
FHS25.4	25.4	12.7	0.89
FHS38.1	38.1	19.1	1.00
FHS50.8	50.8	25.4	1.10
FHS76.2	76.2	38.1	1.30
FHS101.6	101.6	50.8	1.40

PROPERTIES	TEST METHOD	TYPICAL VALUE
<b>Physical</b>		
Tensile Strength	ASTM D 638	13N/mm <sup>2</sup>
Elongation at Break	ASTM D 638	400%
Longitudinal Change	ASTM D 2671	+5%, -10%
Water Absorption	ASTM D 570	0.15%
Specific Gravity	ASTM D 792	1.35
<b>Thermal</b>		
Continuous Operating Temperature		-55°C to +125°C
Minimum Shrink Temperature		<100°C
Heat Shock 4 hours at 250°C	ASTM D 2671	No dripping, cracking or flowing
Heat Ageing 168 hours at 175°C	ASTM D 638	Elongation 250%
Low Temperature Flexibility -55°C	ASTM D 2671C	No cracking
Flammability	UL 224	Pass (colours only)
FHS101.6	101.6	50.8
<b>Chemical</b>		
Fungus Resistance	MIL-DTL-7444	Inert
Fluid Resistance	MIL-DTL-23053/5	Good
Copper Corrosion	ASTM D 2671B	Good
<b>Electrical</b>		
Dielectric Strength	ASTM D 2671	20kV / mm
Volume Resistivity	ASTM D 257	1014 ohm.cm