

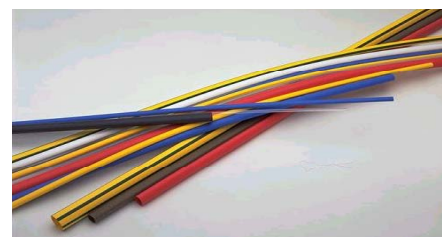


GTI 3000

Heat Shrink

Thin Wall Tubing

Data Sheet



Product Description

Flexible, thin walled heat shrink tubing, made of cross linked, halogen free polyolefin. The tubing meets the latest requirements regarding shrinking time, flexibility, and material characteristics. The tubing shrinks when heat is applied. Simple and fast installation, excellent electrical and mechanical properties. Available in a range of colours and sizes.

Applications

GTI 3000 is designed to provide excellent insulation and protection in various industrial applications. The large diameter range, and 3:1 shrink ratio offers many solutions within a small range of products. GTI 3000 is available in a wide range of colours, with a shiny, smooth, particle free surface. Suitable for cable marking and identification applications. GTI 3000 fulfills the strict requirements of many standards, including RoHS. Easy to install, little training required, saves time. Reliable product, meets domestic, commercial, and industrial needs.

Typical Data/Physical Properties

The irradiated Cross linked Polyolefin tubing is supplied in practical and convenient packaging.

Continuous Operating Temperature.....-55°C to +135°C

Base material Polyolefin

Shrink Ratio (up to 39 mm)3:1

Shrink Temperature 120°C (Min.)

Flame resistance..... not self-extinguishing

Colours

Black	White
Blue	Brown
Red	Clear
Yellow	Green/Yellow

Dimensions

Part Number	Application Cable Range diameter (mm)	Diameter Expanded, as supplied (mm)	Diameter Recovered, fully shrunk (mm)	Wall thickness Recovered, nominal (mm)
GTI-3000 1.5/0.5 *	0.6 – 1.2	1.5	0.5	0.45
GTI-3000 3/1	1.2 – 3	3.0	1.0	0.55
GTI-3000 9/3	3 – 7	9.0	3.0	0.75
GTI-3000 18/6	7 – 16	18.0	6.0	0.75
GTI-3000 39/13	16 – 31	39.0	12.7	1.15

*Not available in Green/Yellow



GTI 3000

Heat Shrink Thin Wall Tubing Data Sheet

Typical Properties

Physical	Value	Standard	Test Method
Shrink ratio	3:1		
Tensile strength	18 N/mm ² min.	-	IEC 60684-2-19
Elongation at break	400 % min.	-	IEC 60684-2-19
Longitudinal change	+0/-5 %	-	IEC 60684-2-9
Concentricity	70 % min.	-	IEC 60684-2-3
Secant Modulus	75 N/mm ²	-	IEC 60684-2-37
Relative Density	0.93 g/cm ³	-	IEC 60684-2-4

Thermal	Value	Standard	Test Method
Continuous Operating Temperature	-55°C to +135°C	-	IEC 60684-2-37
Shrink Temperature	120°C min. 350 °C max.		
Heat Shock		-	IEC 60684-2-6
Tensile strength	18 N/mm ² min.	-	IEC 60684-2-19
Elongation at break	400 % min.	-	IEC 60684-2-19
Heat Aging		-	IEC 60684-2-39
Elongation at break	350 % min.	-	IEC 60684-2-19
Low Temperature Flexibility	No cracking after bending	-	IEC 60684-2-14
Copper Corrosion	No corrosion	-	IEC 60684-2-33
Flammability (1000 °C)	Not self extinguishing	-	IEC 60684-2-26
Flame resistance (200 °C)	Good	-	IEC 60684-2-6

Electrical	Value	Standard	Test Method
Dielectric Strength	350 kV/cm	-	IEC 60684-2-21
Volume resistivity	1*10 ¹⁵ Ohm/cm	-	IEC 60684-2-23

Chemical	Value	Standard	Test Method
Chemical Resistance	Good	-	IEC 60684-2-36

Environmental	Value	Standard	Test Method
RoHS compliant	Yes	2002/95/EEC	N/a
Halogen free	Yes	BS 6853	N/a

Important Notice

Technical information provided by 3M is based on experience and/or tests believed to be reliable, but their accuracy is not guaranteed and the results may not be relevant to every user's application. For this reason 3M does not accept responsibility or liability, direct or consequential, arising from reliance upon any information provided and the user should determine the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence. All questions of liability relating to 3M products are governed by the seller's terms of sale subject where applicable to the prevailing law. If any goods supplied or processed by or on behalf of 3M prove on inspection to be defective in material or workmanship, 3M will (at its option) replace the same or refund to the Buyer the price paid for the goods or services. Except as set out above, all warranties and conditions, whether express or implied, statutory or otherwise are excluded to the fullest extent permissible at law.

3M is a trademark of the 3M Company. Printed in the UK.

© 3M United Kingdom PLC, 2005.

Electrical Products Group
3M United Kingdom PLC
Sales Office
PO Box 393
Bedford MK41 0YE
Telephone: 01234 229462
Fax: 01234 229433

3M Ireland
Sales Office
3M House, Adelphi Centre, Upper Georges Street
Dun Laoghaire, Co Dublin, Ireland
Telephone: 353 1 280 3555
Fax: 353 1 280 3509

3M United Kingdom PLC
Head Office
3M Centre, Cain Road
Bracknell, Berkshire RG12 8HT
Telephone: 01344 858000
Fax: 01344 858758