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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SFTW-202 GYS Tubing

2:1 Green & Yellow Striped, Very Flexible Polyolefin

Data Sheet

Product Description

3M™ SFTW-202 GYS is a 2:1 shrink ratio, yellow and green striped tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. GYS is made of very flexible, heat-shrinkable polyolefin which is mechanically tough, chemically resistant, and can be easily surface printed. The tubing is manufactured using a special coextrusion process.

GYS tubing has been engineered to offer a low shrink temperature of 100°C (212°F). This allows the tubing to shrink rapidly, and minimizes heat exposure and possible damage to temperature sensitive substrates.

GYS tubing meets the performance requirements of MIL-DTL-23053/5 Class 1, and is ULRecognized (File No. E48398) for flame retardance. It is rated for continuous operation from -55°C (-67°F) to 135°C (275°F), and withstands elevated temperatures of 300°C (572°F) for brief periods.

Standard Sizes and Dimensions

Ordering Size	Expanded I.D. (Minimum) in. (mm)		Recovered I.D. (Maximum) in. (mm)		Recovered Wall Thickness (Nominal) in. (mm)	
1/8	.125	(3,18)	.059	(1,5)	.020	(0,51)
3/16	.187	(4,76)	.099	(2,5)	.022	(0,55)
1/4	.250	(6,35)	.118	(3,0)	.026	(0,65)
3/8	.375	(9,53)	.177	(4,5)	.030	(0,76)
1/2	.500	(12,70)	.236	(6,0)	.030	(0,76)
3/4	.750	(19,05)	.355	(9,0)	.030	(0,76)

Note: Dimensions in inches are approximate.

Typical Applications

The tubing is primarily used for ground wire identification. The extra flexibility and low shrink temperature of GYS tubing make it ideal for shrink-fit jacketing and insulation of flexible wire bundles and temperature sensitive components.

Shrink Ratio

GYS has a 2:1 shrink ratio. When freely recovered, the tubing will shrink to 50% of its as-supplied internal diameter. The recovered wall thickness of the tubing is proportional to the degree of recovery.

Standard Colors

Green and yellow striped.

Standard Packaging

Spools. Cut pieces subject to factory quotation.

Ordering Information

Order SFTW-202 GYS by product name, size equivalent to expanded inner diameter, and package type. Always order the largest size that will shrink-fit snugly over the item to be covered. Example: SFTW-202 GYS, 1/4" spool.

Typical Properties

Applicable Specifications MIL-DTL-23053/5, Class 1; UL File E48398; **CSA LR 38227**

Physical Tensile Strength 2600 PSI Ultimate Elongation 400% Longitudinal Change ±5% Secant Modulus (2% elong.) 8700 PSI Corrosive effect Non-corrosive Specific Gravity 1.29 No cracking, Heat Shock (4 hrs. @ 250°C) flowing or dripping Water Absorption 0.2% Heat Aging Elongation (168 hrs. @ 158°C) Low Temperature Flexibility (4 hrs. @ -55°C) No cracking Flammability Self extinguishing

Electrical

Dielectric Strength 700 V/mil Volume Resistivity 1014 ohm-cm

Chemical

Solvent Resistance 1100 PSI Tensile Strength Dielectric Strength 400 V/mil Fungus Resistance Inert

Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

Limited Warranty – 3M expressly warrants that for a period of ninety days from the date of purchase, 3M static control products will be free of defects in materials (parts) and workmanship (labor). Defects occurring during the warranty period will be repaired or products will be replaced at 3M's option and expense, if 3M receives notice during the warranty period. Defective products must be returned to 3M with proof of purchase date. Warranty Exclusions - THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALLOTHER PRODUCT WARRANTIES, EXPRESS AND IMPLIED, INCLUDING FITNESS AND MERCHANTIBILITY. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean, or repair products. Limit of Liability – In no event will 3M or Seller be responsible or liable for special, incidental, or consequential losses or damages, whether based in tort or contract. Fulfillment of 3M's warranty obligations will be Customer's exclusive remedy and 3M's and Seller's limit of liability for any breach of warranty or otherwise. For your nearest distributor or to order, call 1-800-328-1368

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