

# SCG Thin Wall Flame Retarded Tubing



## APPLICATIONS:

Light duty wire harnessing for electrical and electronic applications. Provides electrical insulation and protection for in-line components. Bundles wires and cables. Used as strain relief for electrical wire connection. Bus-bar insulation for switchgear. Color coding for wires, cables, terminals and components.

## GENERAL PROPERTIES OF PRODUCT:

- Shrink ratio 2:1
- Flame retarded and self-extinguishing
- For Electrical Insulation up to 600 volts
- Resistance to chemical, copper corrosion and fungus
- UV stabilized
- Standard Colors: Black, White, Yellow, Red, Blue, Green and Clear
- Meet ROHS Compliance

## SPECIFICATIONS:

**Spec:** MIL-1-23053/5 Class 2 & 3, UL224 125 deg. C VW1, CSA C22.2 No. 198.1 OFT

Part Number/Size	Internal Diameter (mm)		Recovered Wall Thickness (mm)	Packing Configurations		
	Supplied	Recovered		Spools Meters/Spool	Cut Lengths 1.2 meter/box	Dispenser Box Meters/box
SCG 1.0/0.5	1.0 mm	0.5 mm	0.36 mm	200 m		
SCG 1.5/0.75	1.5 mm	0.75 mm	0.36 mm	200 m	1000	20 m
SCG 2.0/1.0	2.0 mm	1.0 mm	0.44 mm	200 m		
SCG 2.5/1.2	2.5 mm	1.2 mm	0.44 mm	200 m	600	20 m
SCG 3.0/1.5	3.0 mm	1.5 mm	0.44 mm	200 m		
SCG 3.5/1.7	3.5 mm	1.7 mm	0.44 mm	200 m	500	20 m
SCG.04/2.0	4.0mm	2.0 mm	0.44 mm	200 m		
SCG 5.0/2.5	5.0 mm	2.5 mm	0.56 mm	100 m	250	10 m
SCG 6.0/3.0	6.0 mm	3.0 mm	0.56 mm	100 m		
SCG 7.0/3.5	7.0 mm	3.5 mm	0.56 mm	50 m	200	10 m
SCG 8.0/4.0	8.0 mm	4.0 mm	0.56 mm	50 m		
SCG 9.0/4.5	9.0 mm	4.5 mm	0.56 mm	50 m		
SCG 10.0/5.0	10.0 mm	5.0 mm	0.56 mm	50 m	100	10 m
SCG 12.0/6.0	12.0 mm	6.0 mm	0.56 mm	50 m		
SCG 13.0/6.5	13.0 mm	6.5 mm	0.69 mm	50 m	120	5 m
SCG 14.0/7.0	14.0 mm	7.0 mm	0.69 mm	50 m		
SCG 16.0/8.0	16.0 mm	8.0 mm	0.69 mm	50 m		
SCG 18.0/9.0	18.0 mm	9.0 mm	0.78 mm	50 m		
SCG 20.0/10.0	20.0 mm	10.0 mm	0.78 mm	50 m	65	5 m
SCG 22.0/11.0	22.0 mm	11.0 mm	0.78 mm	50 m		
SCG 25.0/12.5	25.0 mm	12.5 mm	0.86 mm	50 m	40	5 m
SCG 30.0/15.0	30.0 mm	15.0 mm	0.86 mm	50 m		
SCG 40.0/20,0	40.0 mm	20.0 mm	0.96 mm	25 m	20	
SCG 50.0/25.0	50.0 mm	25.0 mm	0.96 mm	25 m	15	
SCG 76.0/38.0	76.0 mm	38.0 mm	1.27 mm	25 m	10	
SCG 100/50.0	100.0 mm	50.0 mm	1.40 mm	25 m	5	

Note: Tubes with I.D sizes: SCG 7.0/3.5mm to SCG 22.0/11.0mm are packed in 100 meters per spool for the Asia Pacific Market

## Product Technical Data

PROPERTIES	TEST METHOD	TYPICAL VALUE
Tensile Strength	ASTM-D-638	16 N/mm <sup>2</sup>
Water Absorption	ASTM-D-570	.15% Max.
Elongation	ASTM-D-638	300%
Low Temperature Flexibility	ASTM-D-2671	-55 °C
Specific Gravity	ASTM-D-792	1.4
Longitudinal Change	ASTM-D-638	>3%
Flammability	UL224-VW1	Pass
<b>Thermal:</b>		
Operating Temperature	IEC216	-55°C to +125°C
Heat Shock@ 250 °C 4 hrs		No dripping, cracking or flowing
<b>Chemical:</b>		
Fungus Resistance	MIL-1-7444	Inert
Copper Corrosion	ASTM D 2671 B	XX
Chemical Resistance		XX
<b>Electrical :</b>		
Dielectric Strength	ASTM-D-2671	>20kV / mm
Dielectric Constant	ASTM-D-150	3.0 Max.
Volume Resistance	ASTM-D-257	10 <sup>16</sup> Ohm/cm

### Flamability:

Not Self Extinguishing	1
Flame Retarded	2
Self Extinguishing	3

### Chemical Resistance and Copper Corrosion:

X	Satisfactory
XX	Good
XXX	Excellent

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