

HEAT-SHRINKABLE TUBING

IRRAX™ SLEEVE

IRRAX™ SLEEVE SNHM

Halogen Free, Flame Retardant, Medium Wall Tubing

IRRAX™ SLEEVE SNHM is irradiated cross-linked, halogen-free, polyolefin heat-shrinkable tubing which has excellent flame retardancy with reduced acid gas emission and smoke generation and has a mastic adhesive inner which can adhere even at room temperature.

■ FEATURES

- Halogen free
- Reduced acid gas emission and smoke generation in case of fire
- Flame retardant
- High shrink ratio, 3 : 1
- Excellent encapsulation

■ APPLICATIONS

- Protection of cable and pipe for mass transit vehicles, ships or in tunnels or buildings
- Encapsulation of connector and cable

■ LAYER PROPERTIES

Items	Test Method	Requirement	Typical Data
Specific Gravity	ASTM D 792	—	1.35
Tensile Strength	IEC 60684	7.8 MPa min.	11.3 MPa
Ultimate Elongation	IEC 60684	200 %	530 %
Accelerated Aging : at 140°C for 168 hours Tensile Strength (obtained with original) Ultimate Elongation	IEC 60684 IEC 60684	70 % min. 100 % min.	96 % 320 %
Low Temperature Flexibility : at -30°C for 1 hour	ASTM D 2671	No Cracking	No Cracking
Hardness	ASTM D 2240 (Type D)	—	42
Volume Resistivity	IEC 60684	$1 \times 10^{13} \Omega \cdot \text{cm}$ min.	$8 \times 10^{14} \Omega \cdot \text{cm}$
Weather Resistance : for 4,000 hours Tensile Strength (obtained with original) Ultimate Elongation (obtained with original)	JIS A 1415 (Type WS)	—	98 % 72 %
Smoke Generation Flaming Mode Non-Flaming Mode	ASTM E 662 ASTM E 662	— —	50 150
Chlorine Gas Generation	JIS No.53	—	0 mg/g
Copper Mirror Corrosion	SEA-AMS-DT+ -23053	No Corrosion	Pass
Oxygen Index	ASTM D 2863	—	26

■ SIZES

Trade Size	As Supplied	After Shrinkage		Unit Length (min.) [mm]
	Inside Diameter (min.) [mm]	Inside Diameter *1 (max.) [mm]	Wall Thickness *1 (nom.) [mm]	
11 / 25 - 900	25.0	11.0	1.70	900
16 / 40 - 900	40.0	16.0	1.70	
20 / 50 -900	50.0	20.0	1.70	
24 / 65 -900	65.0	24.0	2.30	
28 / 75 -900	75.1	28.0	2.30	
32 / 85 -900	85.0	32.0	2.30	
33 / 110 - 900	110.0	33.0	2.30	

Longitudinal Change : -10 % min.

*1 Outer layer only

■ COLOR

Black

■ MARKING

No marking

(Notice) The information contained in this catalogue is believed to be correct and in accordance with accepted engineering practices. Because of the varied nature of the uses for these products each user should make their own evaluations regarding the suitability of these products for their specific application. Sumitomo Electric Industries, Ltd. makes no warranties regarding the accuracy and completeness of the information and data contained herein, and disclaims any liability from the use or misuse of its products.

Sumitomo Electric Industries, Ltd. shall not be liable for any injury, loss or damage either directly, indirectly or as a consequence arising from the use or misuse of its products mentioned in this catalogue, other than replacement of materials considered defective.



SUMITOMO ELECTRIC INDUSTRIES, LTD.

■ Japan [Sales]

SUMITOMO ELECTRIC INDUSTRIES, LTD.

Osaka Gr., Irradiated Sales Div., Fine Polymer Sales Dept.,
Electronics Sales Unit

4-5-33, Kitahama, Chuo-ku, Osaka, 541-0041, JAPAN
Tel: +81-6-6220-4280 Fax: +81-6-6220-4104

■ Overseas [Sales & Manufacture]

SUMITOMO ELECTRIC INTERCONNECT PRODUCTS, INC.

915, Armorlite Drive, San Marcos, CA 92069-1440, USA
Tel: +1-760-761-0600 Fax: +1-760-761-0625

SUMITOMO ELECTRIC SCHRUMPF-PRODUKTE, GmbH

Oststrasse 89, D-22844 Norderstedt, GERMANY
Tel: +49-40-526-5010 Fax: +49-40-526-4808

SUMITOMO ELECTRIC INTERCONNECT PRODUCTS (HONG KONG) LTD.

Suite 2301, 23rd Fl., Caroline Centre, Lee Gardens II, 28 Yun Ping Rd.,
Causeway Bay, HONGKONG
Tel: +852-2805-6777 Fax: +852-2504-4690

[Manufacture]

SUMITOMO ELECTRIC FINE POLYMER, INC.

1-950, Asashironishi, Kumatori, Sennan, Osaka 590-0451, JAPAN
Tel: +81-724-52-1301 Fax: +81-724-53-0397

SUMI-PAC CORPORATION

8 Fl., No.34, Chung Shan North Rd., Sec.3, Taipei, TAIWAN R.O.C.
Tel: +886-2-2599-7382 Fax: +886-2-2599-7377

SUMITOMO ELECTRIC FINE POLYMER(SUZHOU) LTD.

No.232, Jinfeng Rd., SND, Suzhou, Jiangsu, CHINA
Tel: +86-512-8918-6680 Fax: +86-512-8918-6686