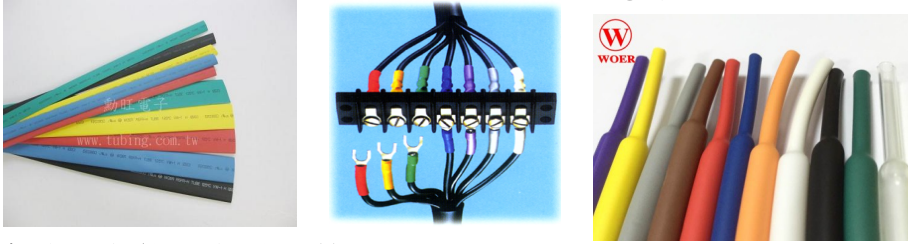


W1H2X & W1HCB2X (RSFR-H & RSFR-CB)

無鹵環保阻燃熱縮套管 (普通型&超薄型)

Zero halogen flexible Heat shrink tubing (Normal & Thin Wall)



H 無鹵環保阻燃熱縮套管：

無鹵環保阻燃熱縮套管採用優質高聚物，經科學配方，機械共混成高聚物合金，產品成型後經電子加速器輻照交聯，連續擴張而成。

產品具有環保、柔軟、阻燃、收縮快、性能穩定等特點，廣泛應用於電線連接、焊點保護、電線端部、線束及電子元器件的防護和絕緣處理，健身器材零件和鋼結構表面防護，相關產品的防銹和防腐，電線和其他產品的標識等。

Product Introduction：

The Halogen Free Heat Shrinkable Tube is newly developed environment-friendly flame retardant heat shrinkable tube, using specially designed formulation of high polymers, through cross-link by electronic accelerator and continuous expansion. The properties of environment-friendly, flexibility flame retardant, quick shrink and stable performance mark them widely used in the field of electronics, communication, automobile, and widely applied for connecting or end-handling, electric wire, insulating and harness of electric wire, corrosion and rust-proof of metallic rods or tubes, antenna protection and marking for other products.

特點：

1. 柔軟、阻燃，通過八大有害元素、鹵素元素 SGS 檢測。
2. 不含有機錫化合物（三丁基錫類/三苯基錫類）、石棉(Asbestos)、煙霧劑 (AzoCompounds)及限制其釋放的物質-甲醛。

Feature：

1. Do not contain four heavy metal elements and four halogen elements. Passed SGS test. flexible, flame retardant.
2. Do not contain organic stannum compound, Asbestos, Azo Compounds and Formaldehyde.

工作溫度範圍：

1. 適用範圍：-55 °C~125 °C
2. 開始收縮溫度 70 °C，普通型完全收縮溫度 125 °C，超薄型完全收縮溫度 110°C，軸向收縮率≤5%。

Temperature Range：

1. Operating Temperature：-55°C~125°C；
2. Shrinking Temperature：Start at 70°C，and full recovery at 125°C for normal tubes，full recovery at 110°C for thin wall tubes，longitudinal shrink ratio：≤5%。

規格：Φ0.5 ~ Φ180，亦可訂製特殊規格。

Specification：The Available sizes from Φ0.5 to Φ180mm，We can produce upon customer's special requirement。

收縮工具：用烘箱和熱風槍加熱即可收縮。

Heating Tools：Using oven or heat gun to let it shrink。

顏色：黑(B)、白(W)、紅(R)、黃(Y)、綠(G)、藍(U)為基本顏色，其他顏色，須訂做。

Standard colors：Black、White、Red、Yellow、Green、Blue、Others will be able to customized。

收縮比(Shrink ratio)：2：1

環保標準：環保性能符合歐盟 RoHs 等環保標準。

Environment Friendly Criterion：Meet RoHS standard.

認證 Certificate/ Approval：UL：E203950 CSA：220127

W1H2X & W1HCB2X (RSFR-H & RSFR-CB)

無鹵環保阻燃熱縮套管 (普通型&超薄型)

Zero halogen flexible Heat shrink tubing (Normal & Thin Wall)

性能特性 Technical Data :

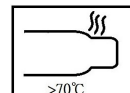
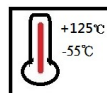
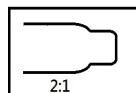
性能 Property		測試方法 Test Method	性能指標 Standard
物理特性 Physical	拉伸強度 (MPa) Tensile strength	GB/T1040	≥10.4
	斷裂伸長率 (%) Elongation	GB/T1040	≥200
	熱老化後拉伸強度(MPa) Tensile strength after aging	UL224 158 °C × 168hr	≥7.3
	熱老化後斷裂伸長率(%) Elongation after aging	UL224 158 °C × 168hr	≥100
	耐熱衝擊 Heat shock	UL224 250 °C × 4hr	不發粘 (No dripping) 不龜裂 (No cracking)
	抗冷彎曲 Cold blend	UL224 -30 °C × 1hr	不龜裂 No cracking
電氣特性 Electrical	擊穿強度 (kv / mm) Dielectric strength	GB/T1408	≥15kv/mm
	耐壓 Dielectric withstand	300V	UL224 1500V 不擊穿 No breakdown for 1500V
		600V	UL224 2500V 不擊穿 No breakdown for 2500V
	體積電阻率 (Ω.cm) Volume resistivity	GB/T1410	≥1 × 10 ¹⁴
化學特性 Chemical	抗腐蝕性 Corrosion of bare copper	UL224 158 °C × 168hr	PASS
	銅安定性 Copper stability	UL224 158 °C × 168hr	PASS
	阻燃性 Flammability	UL224	VW-1

W1H2X (RSFR-H)

無鹵環保阻燃熱縮套管規格 (普通型)

Zero halogen flexible Heat shrink tubing Specification (Normal)

規格 Size (mm)	收縮前尺寸 As Supplied (mm)		收縮後尺寸 After Recovery(mm)		標準包裝 Standard Package			適用範圍 Application Range(mm)
	最大內徑 Max. I.D.	平均壁厚 Average W.T.	最大內徑 Max. I.D.	平均壁厚 Average W.T.	米/盤 M/spool	盤/箱 Spool/ctn	包裝箱規格 Carton Size(cm)	
	Φ0.5	0.8 ± 0.2	0.18 ± 0.05	≤ 0.30	0.33 ± 0.10	400	18	
Φ0.6	0.9 ± 0.2	0.18 ± 0.05	≤ 0.40	0.33 ± 0.10	400	18	31 x 31 x 44.5	0.4 ~ 0.7
Φ0.8	1.1 ± 0.2	0.18 ± 0.05	≤ 0.50	0.33 ± 0.10	400	18	31 x 31 x 44.5	0.6 ~ 0.8
Φ1.0	1.5 ± 0.2	0.20 ± 0.05	≤ 0.65	0.36 ± 0.10	400	10	31 x 31 x 44.5	0.75 ~ 0.9
Φ1.5	2.0 ± 0.2	0.20 ± 0.05	≤ 0.85	0.36 ± 0.10	400	8	31 x 31 x 44.5	0.95 ~ 1.4
Φ2.0	2.5 ± 0.2	0.20 ± 0.05	≤ 1.00	0.45 ± 0.10	400	10	46 x 46 x 44.5	1.1 ~ 1.8
Φ2.5	3.0 ± 0.2	0.20 ± 0.05	≤ 1.30	0.45 ± 0.10	400	8	46 x 46 x 44.5	1.35 ~ 2.3
Φ3.0	3.5 ± 0.2	0.23 ± 0.05	≤ 1.50	0.45 ± 0.10	400	6	46 x 46 x 44.5	1.6 ~ 2.7
Φ3.5	4.0 ± 0.2	0.23 ± 0.05	≤ 1.80	0.45 ± 0.10	400	5	46 x 46 x 44.5	1.85 ~ 3.2
Φ4.0	4.7 ± 0.2	0.25 ± 0.05	≤ 2.00	0.45 ± 0.10	400	4	46 x 46 x 44.5	2.1 ~ 3.6
Φ4.5	5.0 ± 0.2	0.28 ± 0.05	≤ 2.30	0.56 ± 0.10	200	6	46 x 46 x 44.5	2.35 ~ 4.0
Φ5.0	5.5 ± 0.2	0.28 ± 0.05	≤ 2.5	0.56 ± 0.10	200	5	46 x 46 x 44.5	2.6 ~ 4.5
Φ5.5	6.0 ± 0.2	0.28 ± 0.05	≤ 2.80	0.56 ± 0.10	200	5	46 x 46 x 44.5	2.9 ~ 5.0
Φ6.0	6.5 ± 0.2	0.28 ± 0.05	≤ 3.0	0.56 ± 0.10	200	4	46 x 46 x 44.5	3.1 ~ 5.4
Φ7.0	7.5 ± 0.3	0.30 ± 0.05	≤ 3.5	0.56 ± 0.10	100	14	46 x 46 x 31	3.7 ~ 6.3
Φ8.0	8.5 ± 0.3	0.30 ± 0.08	≤ 4.0	0.56 ± 0.10	100	13	46 x 46 x 31	4.2 ~ 7.2
Φ9.0	9.5 ± 0.3	0.30 ± 0.08	≤ 4.5	0.56 ± 0.10	100	12	46 x 46 x 31	4.7 ~ 8.0
Φ10	10.5 ± 0.3	0.30 ± 0.08	≤ 5.0	0.56 ± 0.10	100	11	46 x 46 x 31	5.2 ~ 9.0
Φ11	11.5 ± 0.3	0.30 ± 0.08	≤ 5.5	0.56 ± 0.10	100	11	46 x 46 x 31	5.7 ~ 10
Φ12	12.5 ± 0.3	0.30 ± 0.08	≤ 6.0	0.56 ± 0.10	100	10	46 x 46 x 31	6.2 ~ 11
Φ13	13.5 ± 0.3	0.35 ± 0.08	≤ 6.5	0.56 ± 0.10	100	9	46 x 46 x 29.5	6.7 ~ 12
Φ14	14.5 ± 0.3	0.35 ± 0.10	≤ 7.0	0.70 ± 0.10	100	9	46 x 46 x 31	7.3 ~ 13
Φ15	15.5 ± 0.4	0.35 ± 0.10	≤ 7.5	0.70 ± 0.10	100	8	46 x 46 x 29.5	7.8 ~ 14
Φ16	16.5 ± 0.4	0.35 ± 0.10	≤ 8.0	0.70 ± 0.10	100	8	46 x 46 x 31	8.3 ~ 15
Φ17	17.5 ± 0.4	0.35 ± 0.10	≤ 8.5	0.70 ± 0.10	100	7	46 x 46 x 29.5	8.8 ~ 16
Φ18	19.0 ± 0.5	0.35 ± 0.10	≤ 9.0	0.70 ± 0.10	100	7	46 x 46 x 29.5	9.3 ~ 17
Φ20	22.0 ± 0.5	0.35 ± 0.10	≤ 10.0	0.83 ± 0.10	100	6	46 x 46 x 29.5	10.4 ~ 19
Φ22	24.0 ± 0.5	0.40 ± 0.12	≤ 11.0	0.83 ± 0.15	100	6	46 x 46 x 31	11.4 ~ 21
Φ25	26.0 ± 0.5	0.45 ± 0.12	≤ 12.5	0.90 ± 0.15	50	6	46 x 46 x 31	12.8 ~ 24
Φ28	29.0 ± 0.5	0.45 ± 0.12	≤ 14.0	0.90 ± 0.15	50	5	46 x 46 x 29.5	14.4 ~ 29
Φ30	31.5 ± 1.0	0.45 ± 0.12	≤ 15.0	1.00 ± 0.15	50	5	46 x 46 x 31	16 ~ 29
Φ35	36.5 ± 1.0	0.45 ± 0.12	≤ 17.5	1.00 ± 0.15	50	4	46 x 46 x 29.5	18 ~ 34
Φ40	41.5 ± 1.0	0.50 ± 0.12	≤ 20.0	1.00 ± 0.15	50	4	46 x 46 x 31	21 ~ 39
Φ45	46.5 ± 1.0	0.50 ± 0.15	≤ 22.5	1.00 ± 0.20	25	5	31 x 31 x 40.5	23.5 ~ 44
Φ50	≥ 50	0.50 ± 0.15	≤ 25.0	1.00 ± 0.20	25	5	31 x 31 x 43.5	26 ~ 49
Φ60	≥ 60	0.60 ± 0.15	≤ 30.0	1.20 ± 0.15	25	4	31 x 31 x 42	35 ~ 55
Φ70	≥ 70	0.65 ± 0.15	≤ 35.0	1.30 ± 0.20	25	3	31 x 31 x 37	40 ~ 65
Φ80	≥ 80	0.65 ± 0.15	≤ 40.0	1.30 ± 0.20	25	3	31 x 31 x 42	45 ~ 75
Φ90	≥ 90	0.65 ± 0.15	≤ 45.0	1.30 ± 0.20	25	2	31 x 31 x 32	50 ~ 85
Φ100	≥ 100	0.65 ± 0.20	≤ 50.0	1.30 ± 0.20	25	2	31 x 31 x 34.5	55 ~ 95
Φ120	≥ 120	0.65 ± 0.20	≤ 60.0	1.30 ± 0.20	25	2	31 x 31 x 40.5	65 ~ 115
Φ150	≥ 150	0.65 ± 0.20	≤ 75.0	1.30 ± 0.20	25	2	31 x 31 x 49.5	80 ~ 145
Φ180	≥ 180	0.65 ± 0.30	≤ 90.0	1.30 ± 0.20	25	1	31 x 31 x 31	95 ~ 175



W1HCB2X (RSFR-CB)

無鹵環保阻燃熱縮套管規格(超薄型)

Zero halogen flexible Heat shrink tubing Specification(Thin Wall)

規格 Size (mm)	收縮前尺寸 As Supplied (mm)		收縮後尺寸 (mm) After Recovery		標準包裝 Standard Package			適用範圍 Application Range(mm)
	內徑 I.D.	平均壁厚 Average W.T.	最大內徑 Max. I.D.	平均壁厚 Average W.T.	米/盤 M/ spool	盤/箱 Spools/ carton	包裝箱規格 Carton size(cm)	
Φ0.6 CB	0.90 ± 0.2	0.13 ± 0.05	≤ 0.40	0.20 ± 0.10	200	23	31 x 31 x 44.5	0.4 ~ 0.7
Φ0.8 CB	1.10 ± 0.2	0.13 ± 0.05	≤ 0.50	0.20 ± 0.10	200	23	31 x 31 x 44.5	0.6 ~ 0.8
Φ1.0 CB	1.40 ± 0.2	0.13 ± 0.05	≤ 0.65	0.20 ± 0.10	200	19	31 x 31 x 44.5	0.7 ~ 1.0
Φ1.5 CB	1.90 ± 0.2	0.13 ± 0.05	≤ 0.85	0.20 ± 0.10	200	13	31 x 31 x 44.5	0.9 ~ 1.4
Φ2.0 CB	2.40 ± 0.2	0.13 ± 0.05	≤ 1.00	0.22 ± 0.10	200	18	46 x 46 x 44.5	1.1 ~ 1.8
Φ2.5 CB	2.90 ± 0.2	0.13 ± 0.05	≤ 1.30	0.25 ± 0.10	200	15	46 x 46 x 44.5	1.4 ~ 2.3
Φ3.0 CB	3.40 ± 0.2	0.13 ± 0.05	≤ 1.50	0.28 ± 0.10	200	13	46 x 46 x 44.5	1.6 ~ 2.7
Φ3.5 CB	3.90 ± 0.2	0.13 ± 0.05	≤ 1.80	0.28 ± 0.10	200	10	46 x 46 x 44.5	1.9 ~ 3.2
Φ4.0 CB	4.40 ± 0.2	0.15 ± 0.05	≤ 2.00	0.30 ± 0.10	200	8	46 x 46 x 44.5	2.1 ~ 3.6
Φ4.5 CB	4.90 ± 0.2	0.15 ± 0.05	≤ 2.30	0.30 ± 0.10	100	10	46 x 46 x 44.5	2.4 ~ 4.0
Φ5.0 CB	5.50 ± 0.2	0.15 ± 0.05	≤ 2.5	0.32 ± 0.10	100	10	46 x 46 x 44.5	2.6 ~ 4.5
Φ6.0 CB	6.50 ± 0.2	0.15 ± 0.05	≤ 3.0	0.32 ± 0.10	100	8	46 x 46 x 44.5	3.1 ~ 5.4
Φ7.0 CB	7.5 ± 0.3	0.15 ± 0.05	≤ 3.5	0.32 ± 0.10	200	14	46 x 46 x 31	3.7 ~ 6.3
Φ8.0 CB	8.5 ± 0.3	0.15 ± 0.05	≤ 4.0	0.32 ± 0.10	200	13	46 x 46 x 31	4.2 ~ 7.2
Φ9.0 CB	9.5 ± 0.3	0.15 ± 0.05	≤ 4.5	0.35 ± 0.10	200	12	46 x 46 x 31	4.7 ~ 8.0
Φ10 CB	10.5 ± 0.3	0.15 ± 0.05	≤ 5.0	0.35 ± 0.10	200	11	46 x 46 x 31	5.2 ~ 9.0
Φ11 CB	11.5 ± 0.3	0.18 ± 0.05	≤ 5.5	0.40 ± 0.10	200	11	46 x 46 x 31	5.7 ~ 10.0
Φ12 CB	12.5 ± 0.3	0.20 ± 0.05	≤ 6.0	0.40 ± 0.10	200	10	46 x 46 x 31	6.2 ~ 11.0
Φ13 CB	13.5 ± 0.3	0.20 ± 0.05	≤ 6.5	0.40 ± 0.10	200	9	46 x 46 x 29.5	6.7 ~ 12.0
Φ14 CB	14.5 ± 0.3	0.20 ± 0.05	≤ 7.0	0.40 ± 0.10	200	9	46 x 46 x 31	7.3 ~ 13.0
Φ15 CB	15.5 ± 0.4	0.20 ± 0.05	≤ 7.5	0.40 ± 0.10	200	8	46 x 46 x 29.5	7.8 ~ 14.0
Φ16 CB	16.5 ± 0.4	0.22 ± 0.05	≤ 8.0	0.40 ± 0.10	200	8	46 x 46 x 31	8.3 ~ 15.8
Φ17 CB	17.5 ± 0.4	0.22 ± 0.05	≤ 8.5	0.40 ± 0.10	200	7	46 x 46 x 29.5	8.8 ~ 16.0
Φ18 CB	18.5 ± 0.4	0.22 ± 0.05	≤ 9.0	0.42 ± 0.10	200	7	46 x 46 x 29.5	9.3 ~ 17.0
Φ20 CB	20.5 ± 0.5	0.25 ± 0.05	≤ 10.0	0.45 ± 0.10	200	6	46 x 46 x 29.5	10.5 ~ 19.0
Φ22 CB	22.5 ± 0.5	0.25 ± 0.05	≤ 11.0	0.45 ± 0.10	200	6	46 x 46 x 31	11.5 ~ 20.5
Φ25 CB	25.5 ± 0.5	0.25 ± 0.05	≤ 12.5	0.45 ± 0.10	100	6	46 x 46 x 31	13.0 ~ 24.0
Φ28 CB	28.5 ± 0.5	0.30 ± 0.08	≤ 14.0	0.60 ± 0.10	100	5	46 x 46 x 29.5	14.5 ~ 27.0

