

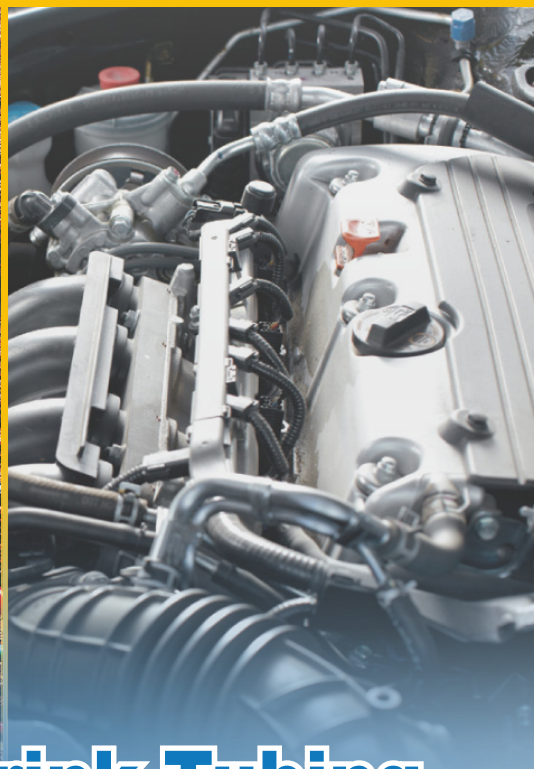


Heat Shrink Tubing And Accessories

Since 1973



Professional Terminals and Connectors Supplier



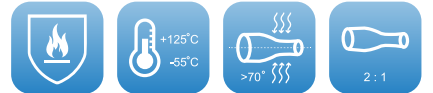
Heat Shrink Tubing And Accessories



HST-GF

通用型熱收縮套管

General purpose, flame retardant polyolefin tubing



125°C VW-1 600V



UL File no. E482352

操作溫度範圍 Operating temperature range

- 操作溫度：-55°C~125°C
- 最低收縮溫度：70°C
- 最低完全收縮溫度：110°C
- Operating temperature：-55°C ~ 125°C
- Minimum shrink temperature：70°C
- Minimum fully recovery temperature：110°C

特性 Characteristics

- 收縮率:2:1
- 非常柔軟，高阻燃性能
- 對通常的可溶解性液體有抵抗性
- 優異的物理、化學和電子性能
- Shrinkage Ratio: 2:1
- Very flexible, highly flame retardant
- Resistant to common fluids and solvents
- Excellent physical, chemical, and electrical properties

應用 Applications

被廣泛地應用於工業和商業領域，如電子絕緣，元件、終端、結合處的保護，另外還常被用於束線的包覆和電線電纜電子元件的顏色標識。
Widely used in industrial and commercial field such as electrical insulation, in-line components, disconnect terminal and splices.
Besides, used commonly to protect and cover bundles wires.
Identifies or color-codes wire, cables, terminals, and components.

顏色 Color

標準顏色: 黑、白、紅、藍、黃、綠

35mm ~ 180mm (35mm含) 以上規格無印刷字體

Standard color : black、white、red、blue、yellow、green

Size 35mm ~ 180mm (35mm included) is without printing (blank tube)

技術性能 Technical Data

特性 Property	標準 Specification Requirement	測試方法 Test Method	結果 Typical Value
縱向伸長率 Longitudinal shrinkage	5% max.	ASTM D 2671	≤ 5%
集中性 Concentricity	70%min.	ASTM D 2671	≥ 70%
擴張強度 Tensile strength	10.4MPa min.	ASTM D 638	≥ 14.0MPa
斷裂伸長率 Elongation at break	200% min.	ASTM D 638	≥ 400%
熱衝擊(250°C,4小時) Heat shock(250°C, 4hrs.)	No cracking	ASTM D 2671	Pass
冷彎曲(-55°C,4小時) Cold bend (-55°C, 4hrs.)	No cracking	ASTM D 2671	Pass
老化擴張強度 Tensile strength after aging 158°C,168 hrs.	70% of original min.	ASTM D 638	≥ 90%
老化延伸度 Elongation after aging 158°C,168 hrs.	100% min.	ASTM D 638	≥ 300%
耐壓 Dielectric voltage withstand and breakdown	2500V, 60sec, No breakdown	UL224	Pass
擊穿強度 Dielectric strength	19.7KV/mm min.	ASTM D 2671	25KV/mm
體積電阻率 Volume resistance	10 ¹⁴ Ω•cm min.	ASTM D 876	≥ 10 ¹⁴ Ω•cm
銅腐蝕性 Copper corrosion	No corrosion	ASTM D 2671	Pass
銅穩定性 Copper stability	Elongation ≥ 100%	ASTM D 2671	Pass
阻燃性 Flammability	VW-1	UL224	Pass

產品規格 Product Dimensions

產品型號 Part Number	尺寸 (米釐) Nominal Size (mm)	收縮前尺寸 (米釐) As supplied (mm)		收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
		內徑 I.D.	壁厚 W.T.	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
HST-GF0.8-BK HST-GF0.8-RE HST-GF0.8-BL HST-GF0.8-YL HST-GF0.8-WH HST-GF0.8-GN	0.8	1.0±0.2	0.15±0.05	0.55	0.25	200	1312-0001 1312-0002 1312-0003 1312-0004 1312-0005 1312-0006
HST-GF1-BK HST-GF1-RE HST-GF1-BL HST-GF1-YL HST-GF1-WH HST-GF1-GN	1.0	1.5±0.3	0.20±0.05	0.6	0.33	200	1312-0007 1312-0008 1312-0009 1312-0010 1312-0011 1312-0012
HST-GF1.5-BK HST-GF1.5-RE HST-GF1.5-BL HST-GF1.5-YL HST-GF1.5-WH HST-GF1.5-GN	1.5	2.0±0.3	0.20±0.05	0.75	0.36	200	1312-0013 1312-0014 1312-0015 1312-0016 1312-0017 1312-0018
HST-GF2-BK HST-GF2-RE HST-GF2-BL HST-GF2-YL HST-GF2-WH HST-GF2-GN	2.0	2.5±0.3	0.20±0.05	1.0	0.44	200	1312-0019 1312-0020 1312-0021 1312-0022 1312-0023 1312-0024
HST-GF2.5-BK HST-GF2.5-RE HST-GF2.5-BL HST-GF2.5-YL HST-GF2.5-WH HST-GF2.5-GN	2.5	3.0±0.3	0.25±0.05	1.25	0.44	200	1312-0025 1312-0026 1312-0027 1312-0028 1312-0029 1312-0030
HST-GF3-BK HST-GF3-RE HST-GF3-BL HST-GF3-YL HST-GF3-WH HST-GF3-GN	3.0	3.5±0.3	0.25±0.05	1.5	0.44	200	1312-0031 1312-0032 1312-0033 1312-0034 1312-0035 1312-0036
HST-GF3.5-BK HST-GF3.5-RE HST-GF3.5-BL HST-GF3.5-YL HST-GF3.5-WH HST-GF3.5-GN	3.5	4.0±0.3	0.25±0.05	1.75	0.44	200	1312-0037 1312-0038 1312-0039 1312-0040 1312-0041 1312-0042
HST-GF4-BK HST-GF4-RE HST-GF4-BL HST-GF4-YL HST-GF4-WH HST-GF4-GN	4.0	4.5±0.3	0.25±0.05	2.0	0.44	200	1312-0043 1312-0044 1312-0045 1312-0046 1312-0047 1312-0048
HST-GF4.5-BK HST-GF4.5-RE HST-GF4.5-BL HST-GF4.5-YL HST-GF4.5-WH HST-GF4.5-GN	4.5	5.0±0.3	0.25±0.05	2.25	0.44	100	1312-0049 1312-0050 1312-0051 1312-0052 1312-0053 1312-0054
HST-GF5-BK HST-GF5-RE HST-GF5-BL HST-GF5-YL HST-GF5-WH HST-GF5-GN	5.0	5.5±0.3	0.25±0.05	2.5	0.56	100	1312-0055 1312-0056 1312-0057 1312-0058 1312-0059 1312-0060

產品規格 Product Dimensions

產品型號 Part Number	尺寸 (米釐) Nominal Size (mm)	收縮前尺寸 (米釐) As supplied (mm)		收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
		內徑 I.D.	壁厚 W.T.	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
HST-GF6-BK HST-GF6-RE HST-GF6-BL HST-GF6-YL HST-GF6-WH HST-GF6-GN	6.0	6.5±0.3	0.28±0.05	3.0	0.56	100	1312-0061 1312-0062 1312-0063 1312-0064 1312-0065 1312-0066
HST-GF7-BK HST-GF7-RE HST-GF7-BL HST-GF7-YL HST-GF7-WH HST-GF7-GN	7.0	7.6±0.3	0.30±0.07	3.5	0.56	100	1312-0067 1312-0068 1312-0069 1312-0070 1312-0071 1312-0072
HST-GF8-BK HST-GF8-RE HST-GF8-BL HST-GF8-YL HST-GF8-WH HST-GF8-GN	8.0	8.6±0.3	0.30±0.07	4.0	0.56	100	1312-0073 1312-0074 1312-0075 1312-0076 1312-0077 1312-0078
HST-GF9-BK HST-GF9-RE HST-GF9-BL HST-GF9-YL HST-GF9-WH HST-GF9-GN	9.0	9.6±0.3	0.30±0.07	4.5	0.56	100	1312-0079 1312-0080 1312-0081 1312-0082 1312-0083 1312-0084
HST-GF10-BK HST-GF10-RE HST-GF10-BL HST-GF10-YL HST-GF10-WH HST-GF10-GN	10.0	10.7±0.4	0.30±0.07	5.0	0.56	100	1312-0085 1312-0086 1312-0087 1312-0088 1312-0089 1312-0090
HST-GF11-BK HST-GF11-RE HST-GF11-BL HST-GF11-YL HST-GF11-WH HST-GF11-GN	11.0	11.7±0.4	0.30±0.07	5.5	0.56	100	1312-0091 1312-0092 1312-0093 1312-0094 1312-0095 1312-0096
HST-GF12-BK HST-GF12-RE HST-GF12-BL HST-GF12-YL HST-GF12-WH HST-GF12-GN	12.0	12.7±0.4	0.30±0.07	6.0	0.56	100	1312-0097 1312-0098 1312-0099 1312-0100 1312-0101 1312-0102
HST-GF13-BK HST-GF13-RE HST-GF13-BL HST-GF13-YL HST-GF13-WH HST-GF13-GN	13.0	13.7±0.4	0.35±0.08	6.5	0.69	100	1312-0103 1312-0104 1312-0105 1312-0106 1312-0107 1312-0108
HST-GF14-BK HST-GF14-RE HST-GF14-BL HST-GF14-YL HST-GF14-WH HST-GF14-GN	14.0	14.7±0.4	0.35±0.08	7.0	0.69	100	1312-0109 1312-0110 1312-0111 1312-0112 1312-0113 1312-0114
HST-GF15-BK HST-GF15-RE HST-GF15-BL HST-GF15-YL HST-GF15-WH HST-GF15-GN	15.0	15.7±0.5	0.35±0.08	7.5	0.69	100	1312-0115 1312-0116 1312-0117 1312-0118 1312-0119 1312-0120

產品規格 Product Dimensions

產品型號 Part Number	尺寸 (米釐) Nominal Size (mm)	收縮前尺寸 (米釐) As supplied (mm)		收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
		內徑 I.D.	壁厚 W.T.	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
HST-GF16-BK HST-GF16-RE HST-GF16-BL HST-GF16-YL HST-GF16-WH HST-GF16-GN	16.0	16.7±0.5	0.35±0.08	8.0	0.69	100	1312-0121 1312-0122 1312-0123 1312-0124 1312-0125 1312-0126
HST-GF17-BK HST-GF17-RE HST-GF17-BL HST-GF17-YL HST-GF17-WH HST-GF17-GN	17.0	17.7±0.5	0.35±0.08	8.5	0.77	100	1312-0127 1312-0128 1312-0129 1312-0130 1312-0131 1312-0132
HST-GF18-BK HST-GF18-RE HST-GF18-BL HST-GF18-YL HST-GF18-WH HST-GF18-GN	18.0	19.0±0.5	0.40±0.10	9.0	0.77	100	1312-0133 1312-0134 1312-0135 1312-0136 1312-0137 1312-0138
HST-GF20-BK HST-GF20-RE HST-GF20-BL HST-GF20-YL HST-GF20-WH HST-GF20-GN	20.0	21.0±0.5	0.40±0.10	10.0	0.77	100	1312-0139 1312-0140 1312-0141 1312-0142 1312-0143 1312-0144
HST-GF22-BK HST-GF22-RE HST-GF22-BL HST-GF22-YL HST-GF22-WH HST-GF22-GN	22.0	23.0±0.5	0.40±0.10	11.0	0.77	100	1312-0145 1312-0146 1312-0147 1312-0148 1312-0149 1312-0150
HST-GF25-BK HST-GF25-RE HST-GF25-BL HST-GF25-YL HST-GF25-WH HST-GF25-GN	25.0	26.0±1.0	0.45±0.10	12.5	0.87	50	1312-0151 1312-0152 1312-0153 1312-0154 1312-0155 1312-0156
HST-GF28-BK HST-GF28-RE HST-GF28-BL HST-GF28-YL HST-GF28-WH HST-GF28-GN	28.0	29.0±1.0	0.45±0.10	14.0	0.87	50	1312-0157 1312-0158 1312-0159 1312-0160 1312-0161 1312-0162
HST-GF30-BK HST-GF30-RE HST-GF30-BL HST-GF30-YL HST-GF30-WH HST-GF30-GN	30.0	31.5±1.0	0.45±0.10	15.0	0.87	50	1312-0163 1312-0164 1312-0165 1312-0166 1312-0167 1312-0168
HST-GF35-BK HST-GF35-RE HST-GF35-BL HST-GF35-YL HST-GF35-WH HST-GF35-GN	35.0	36.5±1.0	0.50±0.10	17.5	0.97	50	1312-0169 1312-0170 1312-0171 1312-0172 1312-0173 1312-0174
HST-GF40-BK HST-GF40-RE HST-GF40-BL HST-GF40-YL HST-GF40-WH HST-GF40-GN	40.0	41.5±1.0	0.50±0.10	20.0	0.97	50	1312-0175 1312-0176 1312-0177 1312-0178 1312-0179 1312-0180

產品規格 Product Dimensions

產品型號 Part Number	尺寸 (米釐) Nominal Size (mm)	收縮前尺寸 (米釐) As supplied (mm)		收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
		內徑 I.D.	壁厚 W.T.	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
HST-GF45-BK HST-GF45-RE HST-GF45-BL HST-GF45-YL HST-GF45-WH HST-GF45-GN	45.0	46.0±0.7	0.50±0.15	22.5	0.85	25	1312-0181 1312-0182 1312-0183 1312-0184 1312-0185 1312-0186
HST-GF50-BK HST-GF50-RE HST-GF50-BL HST-GF50-YL HST-GF50-WH HST-GF50-GN	50.0	51.5±1.0	0.55±0.10	25.0	0.97	25	1312-0187 1312-0188 1312-0189 1312-0190 1312-0191 1312-0192
HST-GF60-BK HST-GF60-RE HST-GF60-BL HST-GF60-YL HST-GF60-WH HST-GF60-GN	60.0	63.0±3.0	0.60±0.15	30.0	1.17	25	1312-0193 1312-0194 1312-0195 1312-0196 1312-0197 1312-0198
HST-GF70-BK HST-GF70-RE HST-GF70-BL HST-GF70-YL HST-GF70-WH HST-GF70-GN	70.0	71.0±3.0	0.60±0.15	35.0	1.17	25	1312-0199 1312-0200 1312-0201 1312-0202 1312-0203 1312-0204
HST-GF80-BK HST-GF80-RE HST-GF80-BL HST-GF80-YL HST-GF80-WH HST-GF80-GN	80.0	81.0±3.0	0.65±0.15	40.0	1.2	25	1312-0205 1312-0206 1312-0207 1312-0208 1312-0209 1312-0210
HST-GF90-BK HST-GF90-RE HST-GF90-BL HST-GF90-YL HST-GF90-WH HST-GF90-GN	90.0	91.0±3.0	0.75±0.15	45.0	1.3	25	1312-0211 1312-0212 1312-0213 1312-0214 1312-0215 1312-0216
HST-GF100-BK HST-GF100-RE HST-GF100-BL HST-GF100-YL HST-GF100-WH HST-GF100-GN	100	101.0±3.0	0.75±0.15	50.0	1.3	25	1312-0217 1312-0218 1312-0219 1312-0220 1312-0221 1312-0222
HST-GF120-BK HST-GF120-RE HST-GF120-BL HST-GF120-YL HST-GF120-WH HST-GF120-GN	120	121.0±4.0	0.80±0.20	60.0	1.4	15	1312-0223 1312-0224 1312-0225 1312-0226 1312-0227 1312-0228
HST-GF150-BK HST-GF150-RE HST-GF150-BL HST-GF150-YL HST-GF150-WH HST-GF150-GN	150	151.0±4.0	0.80±0.20	75.0	1.5	15	1312-0229 1312-0230 1312-0231 1312-0232 1312-0233 1312-0234
HST-GF180-BK HST-GF180-RE HST-GF180-BL HST-GF180-YL HST-GF180-WH HST-GF180-GN	180	181.0±4.0	0.85±0.20	90.0	1.6	15	1312-0235 1312-0236 1312-0237 1312-0238 1312-0239 1312-0240

HST-GF-YG

接地標示用黃綠熱收縮管

Yellow & Green striped polyolefin tubing



125°C VW-1 600V



UL File no. E482352

操作溫度範圍 Operating temperature range

- 操作溫度：-55°C~125°C
- 最低收縮溫度：70°C
- 最低完全收縮溫度：110°C
- Operating temperature：-55°C ~ 125°C
- Minimum shrink temperature：70°C
- Minimum fully recovery temperature：110°C



特性 Characteristics

- 收縮率:2:1
- 雙種顏色用於標識
- 顏色恆久，方便的用於標記
- 符合RoHS
- Shrinkage Ratio: 2:1
- Dual colors for instant identification.
- Permanent tubing colors are superior to conventional ink marking.
- Meet RoHS

應用 Applications

黃綠相間的條紋狀套管，用於標識地線。被廣泛地應用於電線標記，顏色解碼，電子絕緣等領域。

Unique yellow-green striped color used for identifying earth cables, which applying to wire marking, color coding, electrical insulation of wire harness assemblies. Comply with international electrical ground designation.

顏色 Color

標準顏色: 黃綠相間

Standard color : yellow-green

技術性能 Technical Data

特性 Property	標準 Specification Requirement	測試方法 Test Method	結果 Typical Value
長度變化率 Longitudinal change	0±10%	ASTM D 2671	Pass
集中性 Concentricity	70%min.	ASTM D 2671	≥ 70%
擴張強度 Tensile strength	10.4MPa min.	ASTM D 638	≥ 14.0MPa
斷裂伸長率 Elongation at break	200% min.	ASTM D 638	≥ 400%
熱衝擊 Heat shock(250°C, 4hrs.)	No cracking	ASTM D 2671	Pass
冷彎曲 Cold bend (-55°C, 4hrs.)	No cracking	ASTM D 2671	Pass
老化擴張強度 Tensile strength after aging 158°C,168 hrs.	70% of original (min.)	ASTM D 638	≥ 90%
老化延伸度 Elongation after aging 158°C,168 hrs.	100% min.	ASTM D 638	≥ 300%
耐壓 Dielectric voltage withstand and breakdown	2500V, 60sec, No breakdown	UL224	Pass
擊穿強度 Dielectric strength	19.7KV/mm min.	ASTM D 2671	25KV/mm
體積電阻率 Volume resistance	10 ¹⁴ Ω•cm min.	ASTM D 876	≥ 10 ¹⁴ Ω•cm
銅腐蝕性 Copper corrosion	No corrosion	ASTM D 2671	Pass
銅穩定性 Copper stability	Elongation ≥ 100%	ASTM D 2671	Pass
阻燃性 Flammability	VW-1	UL224	Pass

產品規格 Product Dimensions

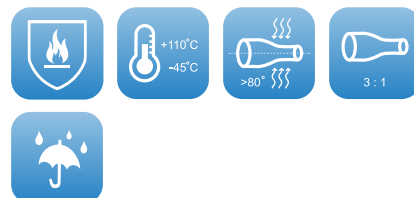
產品型號 Part Number	尺寸 Nominal Size		收縮前尺寸 (米釐) As supplied (mm)		收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	米釐 mm	英吋 inch	內徑(最小值) I.D. (min.)	壁厚 W.T.	內徑(最大值) I.D. (max.)	壁厚 W.T.		
HST-GF1.6-YG	1.6	1/16	1.6	0.20	0.8	0.43±0.08	200	1312-0350
HST-GF2.4-YG	2.4	3/32	2.4	0.25	1.2	0.51±0.08	200	1312-0351
HST-GF3.2-YG	3.2	1/8	3.2	0.25	1.6	0.51±0.08	200	1312-0352
HST-GF4.8-YG	4.8	3/16	4.8	0.25	2.4	0.51±0.08	100	1312-0353
HST-GF6.4-YG	6.4	1/4	6.4	0.30	3.2	0.64±0.08	100	1312-0354
HST-GF8-YG	8.0	5/16	8.0	0.30	4.0	0.64±0.08	100	1312-0355
HST-GF9.5-YG	9.5	3/8	9.5	0.30	4.8	0.64±0.08	100	1312-0356
HST-GF12-YG	12.7	1/2	12.7	0.35	6.4	0.64±0.08	100	1312-0357
HST-GF16-YG	16.0	5/8	16.0	0.35	8.0	0.76±0.08	100	1312-0358
HST-GF19-YG	19.1	3/4	19.1	0.40	9.5	0.76±0.08	100	1312-0359
HST-GF25-YG	25.4	1	25.4	0.45	12.7	0.89±0.12	50	1312-0360
HST-GF31-YG	31.8	1 1/4	31.8	0.45	15.9	1.02±0.15	50	1312-0361
HST-GF38-YG	38.1	1 1/2	38.1	0.50	19.0	1.02±0.15	50	1312-0362
HST-GF50-YG	50.8	2	50	0.55	25.4	1.14±0.16	25	1312-0363

HST-A3 / HST-A4

雙壁含膠型熱收縮套管

Adhesive-lined polyolefin tubing

RoHS ✓ 125°C VW-1 600V **UL** File no. E482352



操作溫度範圍 Operating temperature range

- 操作溫度：-45°C~110°C
- 最低收縮溫度：80°C
- 最低完全收縮溫度：110°C
- Operating temperature：-45°C ~ 110°C
- Minimum shrink temperature：80°C
- Minimum fully recovery temperature：110°C

特性 Characteristics

- 收縮率: 3:1 / 4:1
- 高的擴張倍率提供了優異的電線和連接器的密封
- 用於戶內電子應用的密封和保護
- 不需要移開連接器就可以方便的修補損壞的電纜內層
- 可選用EVA熱熔膠或高溫溶點聚烯胺(PA)熱熔膠
- Shrinkage Ratio: 3:1 / 4:1
- High expansion ratio to provide excellently sealing for connector-to-cable transitions
- Environmentally seals and protects indoor electrical applications
- Conveniently repair most damaged cable jackets without removing connectors
- EVA hot melt adhesive or high melting PA adhesive are available

應用 Applications

由聚烯烴和熱熔膠共擠製造而成，用於需要防水的電線電纜，配線和連接器的保護。可以很好地應用於電子元氣件和通信工業中。
Manufactured by co-extrusion of polyolefin and hot-melt adhesive. Especially recommended for water-proofing for cable and wire harnesses, and protection of connector-to-cable transitions. Typically applied in the insulation and sealing of electrical and electronic components and communication industry.

顏色 Color

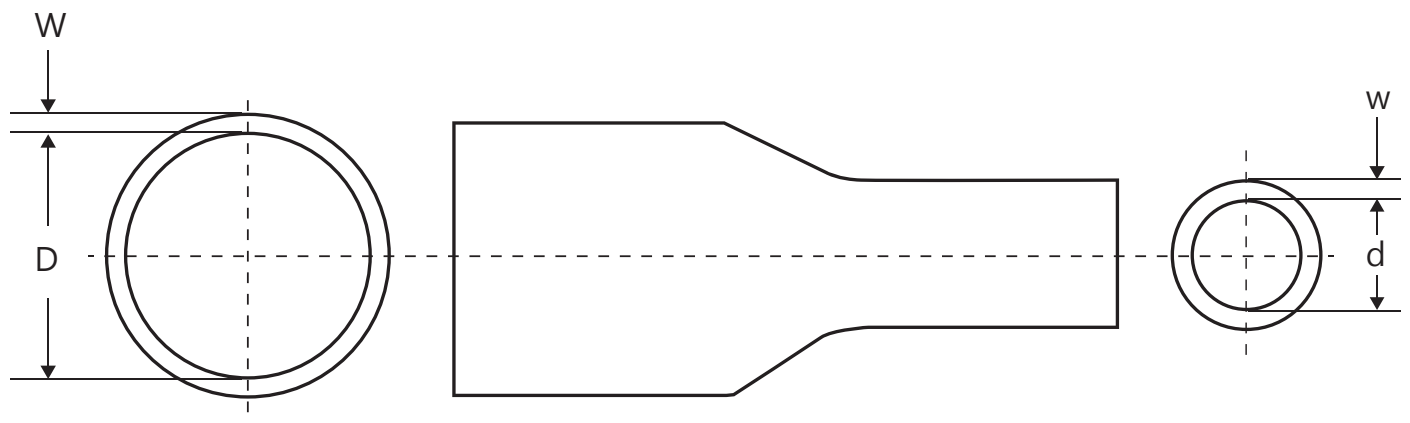
標準顏色: 黑
Standard color : black

技術性能 Technical Data

特性 Property	標準 Specification Requirement	測試方法 Test Method	結果 Typical Value
擴張強度 Tensile strength	10.3MPa min.	ASTM D 638	≥ 12MPa
老化擴張強度 Tensile strength after aging 158°C,168 hrs.	70% of original min.	ASTM D 638	≥ 90%
斷裂伸長率 Elongation at break	200% min.	ASTM D 638	≥ 400% (min.)
老化斷裂伸長率 Elongation at break after aging 158°C,168 hrs.	100% min.	ASTM D 638	≥ 300% (min.)
縱向收縮率 Longitudinal shrinkage	15% max.	UL224	0 to -10%
熱衝擊 Heat shock	No cracking	ASTM D 2671	Pass
冷彎曲 Cold bend(-30°C, 1hrs.)	No cracking	ASTM D 2671	No cracking
絕緣耐壓 Dielectric voltage withstand and breakdown	2500V, 60sec, No breakdown	ASTM D 2671	No breakdown
體積電阻率 Volume resistance	10 ¹³ Ω•cm min.	ASTM D 876	≥ 10 ¹⁴ Ω•cm (min.)
阻燃性 Flammability	All tubing flame test	UL224	Pass
銅腐蝕性 Copper corrosion(158°C, 168hrs.)	No corrosion	ASTM D 2671	Pass

產品規格 Product Dimensions

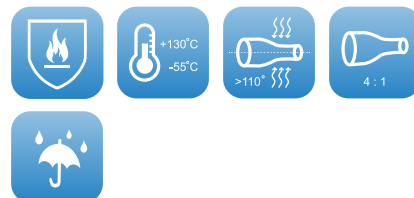
產品型號 Part Number	尺寸 Nominal Size		收縮前尺寸 (米釐) As supplied (mm)		收縮後尺寸 (米釐) After recovered (mm)			標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	米釐 mm	英吋 inch	內徑 I.D.	壁厚 W.T.	內徑(最大值) I.D. (max.)	壁厚 W.T.	膠厚(nominal) Adhesive thickness		
AIS-3X 3:1 Shrinkage Ratio 收縮率									
HST-A3X3.2	3.2	1/8	3.2	0.35	1.0	1.00±0.28	0.45±0.08	200	1312-0266
HST-A3X4.8	4.8	3/16	4.8	0.35	1.6	1.00±0.28	0.50±0.08	100	1312-0267
HST-A3X6.4	6.4	1/4	6.4	0.4	2.0	1.00±0.28	0.50±0.08	100	1312-0268
HST-A3X9.5	9.5	3/8	9.5	0.5	3.0	1.40±0.28	0.60±0.10	50	1312-0269
HST-A3X12	12.7	1/2	12.7	0.6	4.0	1.70±0.38	0.76±0.15	1.22	1312-0270
HST-A3X15	15.0	5/8	15.0	0.6	5.0	1.90±0.38	0.76±0.15	1.22	1312-0271
HST-A3X19	19.1	3/4	19.1	0.7	6.0	2.25±0.55	0.76±0.15	1.22	1312-0272
HST-A3X25	25.4	1	25.4	0.8	8.0	2.54±0.55	1.00±0.20	1.22	1312-0273
HST-A3X38	38.1	1 1/2	38.1	0.8	13.0	2.54±0.55	1.00±0.20	1.22	1312-0274
AIS-4X 4:1 Shrinkage Ratio 收縮率									
HST-A4X4	4	3/16	4.0	0.4	1.0	1.00±0.28	0.50±0.08	1.22	1312-0275
HST-A4X8	8	5/16	8.0	0.45	2.0	1.00±0.28	0.50±0.08	1.22	1312-0276
HST-A4X12	12	1/2	12.0	0.45	3.0	1.40±0.28	0.60±0.10	1.22	1312-0277
HST-A4X16	16	5/8	16.0	0.55	4.0	1.70±0.38	0.76±0.15	1.22	1312-0278
HST-A4X24	24	1	24.0	0.7	6.0	2.25±0.55	0.76±0.15	1.22	1312-0279
HST-A4X32	32	1 1/4	32.0	0.7	8.0	2.54±0.55	1.00±0.20	1.22	1312-0280
HST-A4X52	52	2	52.0	0.7	13.0	2.54±0.55	1.00±0.20	1.22	1312-0281



HST-AU

車用線束含膠熱縮套管

High shrink ratio semirigid polyolefin tubing



操作溫度範圍 Operating temperature range

- 操作溫度：-55°C~130°C
- 最低收縮溫度：110°C
- 最低完全收縮溫度：135°C
- Operating temperature：-55°C ~ 130°C
- Minimum shrink temperature：110°C
- Minimum fully recovery temperature：135°C

特性 Characteristics

- 4:1 高倍收縮
- 優異的完全密封防水性能
- 半硬耐磨阻燃材質
- High shrink ratio 4:1
- Absolutely seal and water proof
- Semi-rigid flame retardant and abrasion resistance.

應用 Applications

AIS-ES汽車線束防水熱縮套管，專為汽車工業電子元件、線束絕緣保護及防水所設計，有較高的4:1收縮比配合耐高溫的聚醯胺熱熔膠(Polyamide)，能對水分做充分阻隔保護線束必免受腐蝕及受潮，外壁為半硬耐磨材質聚烯烴，對於汽車嚴格的環境提供充分的保護。

Specifically designed to insulate, seal and protect wire splices, terminations and components in automotive industrial. High shrink ratio 4:1 and high temperature resistant Polyamide adhesive liner can be against water, moisture and corrosion. Semi-rigid outer wall provides excellent abrasion protection and strain relief for strict environment requirement.

顏色 Color

標準顏色: 黑

Standard color : black

技術性能 Technical Data

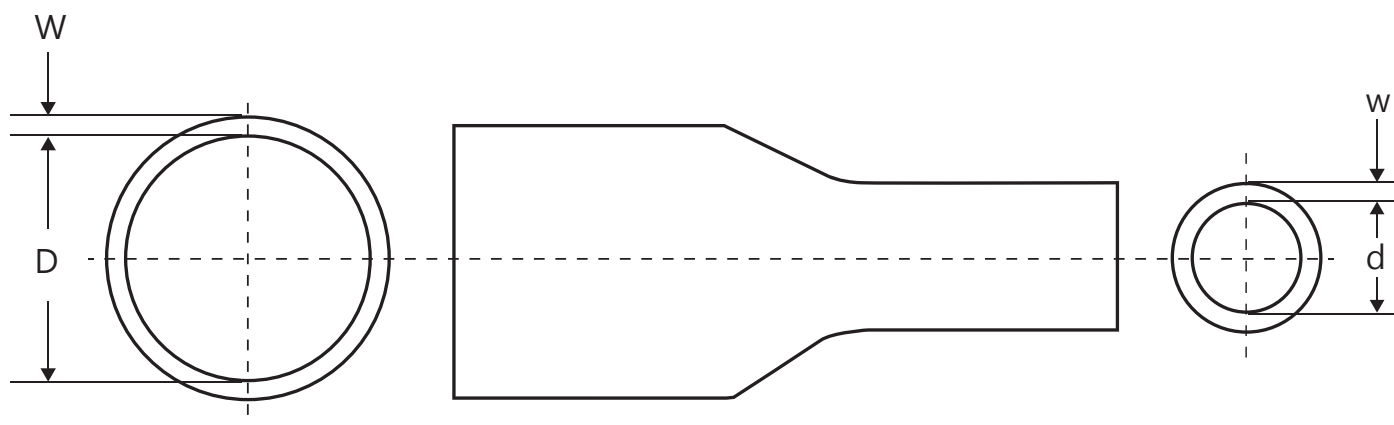
特性 Property	測試方法 Test Method	結果 Typical Value
擴張強度 Tensile strength	ASTM D 2671	10.4MPa (min.)
老化擴張強度 Tensile strength after aging 158°C,168 hrs.	ASTM D 2671	Remains 70%
斷裂伸長率 Elongation at break	ASTM D 2671	200% (min.)
老化斷裂伸長率 Elongation at break after aging 158°C,168 hrs.	ASTM D 2671	100% (min.)
縱向收縮率 Longitudinal shrinkage	UL224	0 to -10%
熱衝擊 Heat shock(250°C, 4hrs.)	ASTM D 2671	No cracking, no dropping
冷彎曲 Cold bend(-40°C, 1hrs.)	ASTM D 2671	No cracking
絕緣耐壓 Dielectric voltage withstand and breakdown	2500V, 60sec, ASTM D 2671	No breakdown
體積電阻率 Volume resistance	ASTM D 876	10 ¹⁴ Ω·cm (min.)
阻燃性 Flammability	SAE-AMS-DTL-23053/5	Self extinguish in 30 sec.
銅腐蝕性 Copper corrosion(158°C, 168hrs.)	UL224	Pass
吸水率 Water absorption	ASTM D 570	< 0.5%

熱熔膠 Thermoplastic Adhesive

軟化溫度 Softening point	ASTM D E28	105°C
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產品規格 Product Dimensions

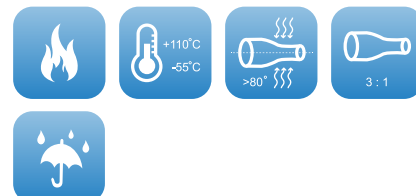
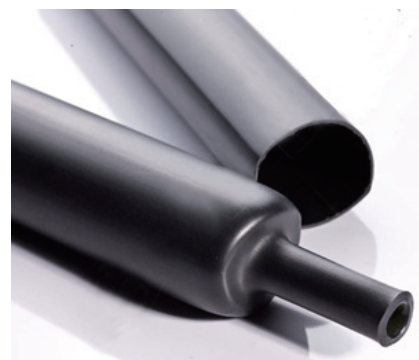
產品型號 Part Number	收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚 W.T.		
HST-AU5.7	5.72	1.27	1.2	1.22	1312-0282
HST-AU7.4	7.44	1.65	1.52	1.22	1312-0283
HST-AU10	10.85	2.41	1.91	1.22	1312-0284
HST-AU17	17.78	4.45	2.41	1.22	1312-0285



HST-AG

通用型中壁含膠熱收縮套管

Medium wall tubing with hot melt adhesive



操作溫度範圍 Operating temperature range

- 操作溫度：-55°C~110°C
- 最低收縮溫度：80°C
- 最低完全收縮溫度：120°C
- Operating temperature：-55°C ~ 110°C
- Minimum shrink temperature：80°C
- Minimum fully recovery temperature：120°C

特性 Characteristics

- 收縮率：3:1
- 可以應用於不規則的連接上
- 能抵抗UV，防水
- 良好的電氣絕緣性能
- shrinkable ratio: 3:1
- Easily fit over irregular shape and large connectors
- Resistant to UV and waterproof
- Excellent electrical insulation

應用 Applications

大的擴張倍率和內有熱熔膠提供了良好的絕緣和保護電纜連接和終端的性能，另外高抗磨性能和抗腐蝕性能可以很好的應用於通信電纜和管道。
High shrink ratio and hot melt adhesive, which provide excellent properties of insulation and protection to cable joints and terminations.
And high abrasion and corrosion resistance for applying in communication cable and chemical pipe.

顏色 Color

標準顏色：黑
Standard color：black

技術性能 Technical Data

特性 Property	測試方法 Test Method	結果 Typical Value
擴張強度 Tensile strength	ASTM D 2671	≥ 14MPa
斷裂伸長率 Elongation at break	ASTM D 2671	≥ 400%
密度 Density	ASTM D 792	1.05g/cm ³
縱向收縮率 Longitudinal shrinkage	UL224	0 to -10%
偏壁率 Eccentricity	ASTM D 2671	< 30%
老化斷裂伸長率 Elongation at break after aging	150°C, 168 hrs.	≥ 300%
絕緣強度 Dielectric strength	IEC 243	≥ 20KV/mm
體積電阻率 Volume resistance	IEC 93	≥ 10 ¹⁴ Ω·cm
銅穩定性 Copper stability	ASTM D 2671	Pass
壓力破裂抵抗性 Resistance to stress cracking(50°C)	ASTM D 1693	No cracking
吸水率 Water absorption	ISO 62	< 0.15%
熱熔膠 Thermoplastic Adhesive		
吸水率 Water absorption	ISO 62	< 0.2%
軟化溫度 Softening point	ASTM D E28	85°C
剝離強度 Peel strength(PE)	DIN 30672	4N/cm
銅穩定性 Copper stability	ASTM D 2671	Non-corrosive
細菌腐蝕抵抗性 Resistance to fungus and decay	ISO 846	Pass

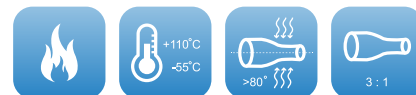
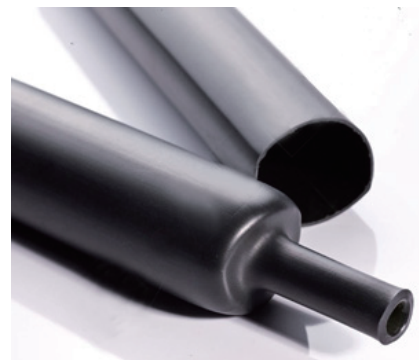
產品規格 Product Dimensions

產品型號 Part Number	收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
ATM medium wall tubing with hot melt adhesive 中壁含膠					
HST-AG8	8	2	1.7	1.22	1312-0286
HST-AG12	12	3	1.8	1.22	1312-0287
HST-AG16	16	5	2	1.22	1312-0288
HST-AG19	19	5	2.2	1.22	1312-0289
HST-AG22	22	6	2.2	1.22	1312-0290
HST-AG28	28	6	2.5	1.22	1312-0291
HST-AG33	33	8	2.5	1.22	1312-0292
HST-AG40	40	12	2.5	1.22	1312-0293
HST-AG44	44	14	2.5	1.22	1312-0294
HST-AG55	55	16	2.7	1.22	1312-0295
HST-AG65	65	19	2.8	1.22	1312-0296
HST-AG75	75	22	3	1.22	1312-0297
HST-AG85	85	25	3	1.22	1312-0298
HST-AG95	95	25	3	1.22	1312-0299
HST-AG115	115	34	3.3	1.22	1312-0300
HST-AG140	140	42	3.5	1.22	1312-0301
HST-AG160	160	50	3.5	1.22	1312-0302
HST-AG180	180	58	3.5	1.22	1312-0303
HST-AG235	235	65	3.7	1.22	1312-0305
HST-AG265	265	75	4	1.22	1312-0306
HST-AG350	350	100	4.3	1.22	1312-0308

HST-GG

通用型中壁不含膠熱收縮套管

Medium wall tubing without hot melt adhesive



操作溫度範圍 Operating temperature range

- 操作溫度：-55°C~110°C
- 最低收縮溫度：80°C
- 最低完全收縮溫度：120°C
- Operating temperature：-55°C ~ 110°C
- Minimum shrink temperature：80°C
- Minimum fully recovery temperature：120°C

特性 Characteristics

- 收縮率: 3:1
- 可以應用於不規則的連接上
- 能抵抗UV
- 良好的電氣絕緣性能
- shrinkable ratio: 3:1
- Easily fit over irregular shape and large connectors
- Resistant to UV
- Excellent electrical insulation

應用 Applications

大的擴張倍率提供了良好的絕緣和保護電纜連接和終端的性能。另外高抗磨性能和抗腐蝕性能可以很好的應用於通信電纜和管道。
High shrink ratio which provide excellent properties of insulation and protection to cable joints and terminations.
And high abrasion and corrosion resistance for applying in communication cable and chemical pipe.

顏色 Color

標準顏色: 黑
Standard color : black

技術性能 Technical Data

特性 Property	測試方法 Test Method	結果 Typical Value
擴張強度 Tensile strength	ASTM D 2671	≥ 14MPa
斷裂伸長率 Elongation at break	ASTM D 2671	≥ 400%
密度 Density	ASTM D 792	1.05g/cm ³
縱向收縮率 Longitudinal shrinkage	UL224	0 to -10%
偏壁率 Eccentricity	ASTM D 2671	< 30%
老化斷裂伸長率 Elongation at break after aging	150°C, 168 hrs.	≥ 300%
絕緣強度 Dielectric strength	IEC 243	≥ 20KV/mm
體積電阻率 Volume resistance	IEC 93	≥ 10 ¹⁴ Ω·cm
銅穩定性 Copper stability	ASTM D 2671	Pass
壓力破裂抵抗性 Resistance to stress cracking(50°C)	ASTM D 1693	No cracking
吸水率 Water absorption	ISO 62	< 0.15%

產品規格 Product Dimensions

產品型號 Part Number	收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
ATM medium wall tubing without hot melt adhesive 中壁不含膠					
HST-GG8	8	2	1.7	1.22	1312-0241
HST-GG12	12	3	1.8	1.22	1312-0242
HST-GG16	16	5	2.0	1.22	1312-0243
HST-GG19	19	5	2.2	1.22	1312-0244
HST-GG22	22	6	2.2	1.22	1312-0245
HST-GG28	28	6	2.5	1.22	1312-0246
HST-GG33	33	8	2.5	1.22	1312-0247
HST-GG40	40	12	2.5	1.22	1312-0248
HST-GG44	44	14	2.5	1.22	1312-0249
HST-GG55	55	16	2.7	1.22	1312-0250
HST-GG65	65	19	2.8	1.22	1312-0251
HST-GG75	75	22	3.0	1.22	1312-0252
HST-GG85	85	25	3.0	1.22	1312-0253
HST-GG95	95	25	3.0	1.22	1312-0254
HST-GG115	115	34	3.3	1.22	1312-0255
HST-GG140	140	42	3.5	1.22	1312-0256
HST-GG160	160	50	3.5	1.22	1312-0257
HST-GG180	180	58	3.5	1.22	1312-0258
HST-GG205	205	65	3.5	1.22	1312-0259
HST-GG235	235	65	3.7	1.22	1312-0260
HST-GG265	265	75	4.0	1.22	1312-0261
HST-GG300	300	85	4.0	1.22	1312-0262
HST-GG350	350	100	4.3	1.22	1312-0263
HST-GG380	380	150	4.3	1.22	1312-0264
HST-GG410	410	150	4.3	1.22	1312-0265

HST-HV

PVDF熱收縮套管

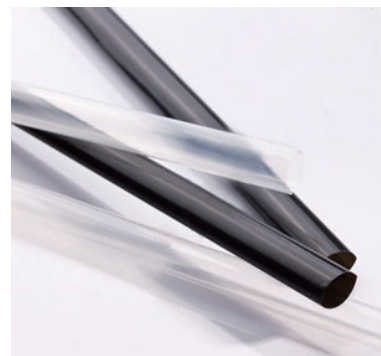
Flexible PVDF heat shrinkable tubing



AMS-DTL-23053/18



UL File no. E482352



操作溫度範圍 Operating temperature range

- 操作溫度：-55°C~175°C
- 最低收縮溫度：125°C
- 最低完全收縮溫度：150°C
- Operating temperature：-55°C ~ 175°C
- Minimum shrink temperature：125°C
- Minimum fully recovery temperature：150°C

特性 Characteristics

- 收縮率: 2:1
- 優異的阻燃性
- 柔軟・耐高溫
- Shrinkage Ratio: 2:1
- Excellent flame retardant
- Flexible and high temperature performance

應用 Applications

用於需要耐高溫・耐磨擦的場合・有很強的化學和溶解的抵抗性能。柔軟及透明特性可以方便應用於電線和電纜的標識・更容易操作包覆物品。
150°C PVDF tube for applications requiring high-temperature, outstanding abrasion, superior chemical and solvent resistant properties.
Flexible and transparent tube is easily for identification of wire, and packaging components.

顏色 Color

標準顏色: 黑、透明
Standard color : black and clear

技術性能 Technical Data

特性 Property	標準 Specification Requirements	測試方法 Test Method	結果 Typical Value
擴張強度 Tensile strength	17.3MPa min.	ASTM D 638	≥ 25MPa
伸長率 Elongation	150% min.	ASTM D 638	≥ 300%
熱衝擊 Heat shock(275°C, 4hrs.)	No cracking, dripping or flowing	ASTM D 2671	Pass
低溫柔軟性 Low temperature flexibility(-55°C, 4hrs.)	No cracking	ASTM D 2671	Pass
老化伸長率 Elongation after aging	100%	ASTM D 638	≥ 100%
耐電壓 Dielectric voltage withstand	2500V, 60sec, No breakdown	ASTM D 2671	Pass
體積電阻率 Volume resistivity	10 ¹¹ Ω•cm min.	ASTM D 876	≥ 10 ¹¹ Ω•cm
耐腐蝕性 Corrosion	No corrosion	ASTM D 2671	Pass
阻燃性 Flammability	VW-1	UL224	Pass

產品規格 Product Dimensions

產品型號 Part Number	尺寸 Nominal Size		收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	米釐 mm	英吋 inch	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚 W.T.		
HST-HV1.2-BK KST-HV1.2-CL	1.2	3/64	1.2	0.6	0.25±0.05	1.2	1312-0311 1312-0312
HST-HV1.6-BK HST-HV1.6-CL	1.6	1/16	1.6	0.8	0.25±0.05	1.2	1312-0313 1312-0314
HST-HV2.4-BK KST-HV2.4-CL	2.4	3/32	2.4	1.2	0.25±0.05	1.2	1312-0315 1312-0316
HST-HV3.2-BK HST-HV3.2-CL	3.2	1/8	3.2	1.6	0.25±0.05	1.2	1312-0317 1312-0318
HST-HV4.8-BK KST-HV4.8-CL	4.8	3/16	4.8	2.4	0.25±0.05	1.2	1312-0319 1312-0320
HST-HV6.4-BK HST-HV6.4-CL	6.4	1/4	6.4	3.2	0.30±0.08	1.2	1312-0321 1312-0322
HST-HV9.5-BK KST-HV9.5-CL	9.5	3/8	9.5	4.8	0.30±0.08	1.2	1312-0323 1312-0324
HST-HV12-BK HST-HV12-CL	12.7	1/2	12.7	6.4	0.30±0.08	1.2	1312-0325 1312-0326
HST-HV19-BK KST-HV19-CL	19.1	3/4	19.1	9.5	0.43±0.08	1.2	1312-0327 1312-0328
HST-HV25-BK HST-HV25-CL	25.4	1	25.4	12.7	0.48±0.08	1.2	1312-0329 1312-0330
HST-HV38-BK KST-HV38-CL	38.1	1 1/2	38.1	19	0.51±0.08	1.2	1312-0331 1312-0332
HST-HV50-BK HST-HV50-CL	50.8	2	50.8	25.4	0.58±0.08	1.2	1312-0333 1312-0334

KBS-SR

PET剖開捲式編織管

Semi-rigid wrappable split braided sleeving

RoHS 



操作溫度範圍 Operating temperature range

- 操作溫度：-40°C~125°C
- Operating temperature：-40°C ~ 125°C

特性 Characteristics

- 抗紫外線
- 對大部分的化學和溶解性物質有抵抗性
- PET材質具有很好的耐用性
- 優異的抗磨擦性能
- UV light resistant polyester yarn
- Not affected by most chemicals and solvents
- PET material has excellent durability property
- Excellent abrasion and cut-through resistance



應用 Applications

由PET單絲編織而成，剖開捲式設計方便施工及應用在不規格的形狀並可以很方便在雙端封閉的場合安裝和卸除，可以做取代波紋管(浪管)的功能。 Designed from PET monofilament yarns, unique construction and split makes it simply self-closes around a group of wires. It's flexible and lightweight enough to bend to a tight radius without distorting and splitting for allowing coverage around inline plugs, connectors and splices without the need for any additional fasteners (Velcro, tape, etc.), which can instead of slit loom and spiral wrap.

顏色 Color

標準顏色: 黑

Standard color : black

技術性能 Technical Data

特性 Property	測試方法 Test Method	結果 Typical Value
拉伸強度 Tensile strength	ASTM D-876	100,000 psi
伸長率 Elongation	ASTM D-876	20%
比重 Specific gravity	ASTM D-876	1.31
吸濕性 Moisture absorption(24 hours)	ASTM D-570	0.08%
最大操作溫度 Max. operating temperature	UL224	125°C
熔解溫度 Melt temperature	ASTM D-2117	250°C
低溫柔軟性 Low temperature flexibility	MIL I 23053/5	-70°C
彎曲係數 Flexural modulus	ASTM D-790	400
抗菌性 Fungus resistance	MIL STD 810 (508)	不滋生 No Growth
銅腐蝕性 Copper corrosivity	MIL I 23053	不影響 No effect

產品規格 Product Dimensions

產品型號 Part Number	尺寸 Nominal Size		張開寬度(米釐) Opening expansion width (mm)	包裝 Packing		製造料號 MFG P/N
	米釐 mm	英吋 inch		英尺/每卷 Feet/Roll	公尺/每卷 Meter/Roll	
KBS-SR3.2	3.2	1/8"	23±4	100'	30.5	1313-0019
KBS-SR6.4	6.4	1/4"	45±4	100'	30.5	1313-0020
KBS-SR12	12.7	1/2"	60±4	75'	22.8	1313-0021
KBS-SR19	19.1	3/4"	89±4	50'	15.2	1313-0022
KBS-SR25	25.4	1"	110±4	25'	7.6	1313-0023
KBS-SR38	38.1	1-1/2"	150±4	25'	7.6	1313-0024
KBS-SR50	50.8	2"	205±5	25'	7.6	1313-0025

KBS-CF / KBS-CN

汽車線束用捲式編織管

wraparound braided sleeving for automotive wire assembly



操作溫度範圍 Operating temperature range

- 操作溫度：-40°C~125°C (非阻燃)
-40°C~150°C (阻燃)
- Operating temperature：-40°C ~ 125°C (Non-flame retardant)
-40°C~150°C (Flame retardant)



Non-flame
retardant

Flame
retardant

特性 Characteristics

- 阻燃
- 抗紫外線、柔軟
- 對大部分的化學和溶解性物質有抵抗性
- 高耐磨擦性能
- 優異的降噪音功能
- Flame retardant
- UV resistance, flexible
- Not affected by most chemicals and solvents
- Excellent abrasion property
- Outstanding noise reduction

應用 Applications

由單絲和多絲纖維聚酯編織而成，剖開捲式設計，方便快速將線組集線施工，並可以方便在兩端封閉狀況下安裝和卸載，極為柔軟的材質提供抗磨損保護及良好的避震和吸音作用，可以做取代波紋管(浪管)的功能。

Designed from monofilament and multifilament polyester yarns. The unique split and self-closes construction makes it quick and easily to wrap around a group of wires. Very convenient to install and remove from a completed assemblies.

Flexible material provides abrasion resistance as well as diminish noise and vibration, can instead of slit loom and spiral wrap.

顏色 Color

標準顏色: 黑

Standard color : black

技術性能 Technical Data

特性 Property	測試方法 Test Method	結果 Typical Value
耐溫 Temperature rating	150°C / 240hrs	pass
耐溫(非阻燃) Temperature rating(Non-flame retardant)	125°C / 240hrs	pass
熔解溫度 Melt temperature	ASTM D 2117	250°C
低溫柔軟性 Low temperature flexibility	MIL 123053/5	-40°C
多絲伸長率 Multifilament Elongation	ASTM D 2256	35-44%
單絲伸長率 Monofilament Elongation	ASTM D 2256	15-31%

產品規格 Product Dimensions

產品型號 Part Number	尺寸 Nominal Size	張開寬度(米釐) Opening expansion width (mm)	包裝 Packing	製造料號 MFG P/N
	米釐 mm		公尺/每卷 Meter/Roll	
Flame retardant material 阻燃材質				
KBS-CF5	5	29±5	30.5	1313-0031
KBS-CF8	8	45±5	30.5	1313-0032
KBS-CF10	10	55±5	22.8	1313-0033
KBS-CF13	13	68±5	22.8	1313-0034
KBS-CF16	16	75±5	15.2	1313-0035
KBS-CF19	19	95±5	15.2	1313-0036
KBS-CF25	25	102±5	7.6	1313-0037
KBS-CF29	29	114±5	7.6	1313-0038
KBS-CF32	32	131±5	7.6	1313-0039
KBS-CF38	38	160±5	7.6	1313-0040
KBS-CF48	48	202±5	7.6	1313-0041
Non-flame retardant material 非阻燃材質				
KBS-CN5	5	29±5	30.5	1313-0042
KBS-CN8	8	45±5	30.5	1313-0043
KBS-CN10	10	55±5	22.8	1313-0044
KBS-CN13	13	68±5	22.8	1313-0045
KBS-CN16	16	75±5	15.2	1313-0046
KBS-CN19	19	95±5	15.2	1313-0047
KBS-CN25	25	102±5	7.6	1313-0048
KBS-CN29	29	114±5	7.6	1313-0049
KBS-CN32	32	131±5	7.6	1313-0050
KBS-CN38	38	160±5	7.6	1313-0051
KBS-CN48	48	202±5	7.6	1313-0052

KBS-PF

PET 編織擴充管
PET expandable braided sleeving

RoHS ✓ **UL** File no. E482353



操作溫度範圍 Operating temperature range

- 操作溫度：-40°C~150°C (阻燃)
- Operating temperature : -40°C~150°C (Flame retardant)

特性 Characteristics

- 抗紫外線
- 對大部分的化學和溶解性物質有抵抗性
- 輕・柔軟・高倍擴充比
- 優異的抗磨擦性能
- UV light resistant polyester yarn
- Not affected by most chemicals and solvents
- Light weight and flexible and high tensile strength
- Excellent abrasion and cut-through resistance



Non-flame
retardant



Flame
retardant

應用 Applications

由PET單絲編織而成，可以快速方便地安裝在線材上。主要用於工業中的電線捆束，自動化中軟管電纜的保護，重型機器、汽車工業及魚桿保護運用。Designed from durable environment friendly PET monofilament yarns and the unique braided construction enables quick and easy installation over large connectors. It's used in wire bundle, hose and cable protection for the automotive, heavy equipment and marine industries. And generally commercial applications such as personal computers, motorcycling, bicycling, fishing rod protection.

顏色 Color

標準顏色: 黑

Standard color : black

技術性能 Technical Data

特性 Property	測試方法 Test Method	結果 Typical Value
拉伸強度 Tensile strength	ASTM D-876	100,000 psi
伸長率 Elongation	ASTM D-876	20%
比重 Specific gravity	ASTM D-876	1.31
吸濕性 Moisture absorption(24 hours)	ASTM D-570	0.08%
最大操作溫度 Max. operating temperature	UL224	125°C
熔解溫度 Melt temperature	ASTM D-2117	250°C
低溫柔軟性 Low temperature flexibility	MIL I 23053/5	-70°C
彎曲係數 Flexural modulus	ASTM D-790	400
抗菌性 Fungus resistance	MIL STD 810 (508)	不滋生 No Growth
銅腐蝕性 Copper corrosivity	MIL I 23053	不影響 No effect

產品規格 Product Dimensions

產品型號 Part Number	折徑尺寸 Nominal Size		Expansion range DIA (mm)		編數 Ends	包裝 Packing	製造料號 MFG P/N
	米釐 mm	英吋 inch	最小值 min.	最大值 max.		Feet(M) / R	
Flame retardant material 阻燃材質							
KBS-PF3.2	3.2	1/8"	2.37	6.35	1	1000ft(305 M) / R	1313-0001
KBS-PF6.4	6.4	1/4"	3.17	9.53	3	1000ft(305 M) / R	1313-0002
KBS-PF9.5	9.5	3/8"	4.76	15.88	3	500ft(153 M) / R	1313-0003
KBS-PF12	12.7	1/2"	6.35	19.05	3	500ft(153 M) / R	1313-0004
KBS-PF19	19.1	3/4"	12.7	31.75	3	250ft(77 M) / R	1313-0005
KBS-PF32	32	1-1/4"	19.05	38.1	3	250ft(77 M) / R	1313-0006
KBS-PF38	38.1	1-1/2"	25.4	57.15	4	200ft(61 M) / R	1313-0007
KBS-PF44	44.5	1-3/4"	31.75	69.85	4	200ft(61 M) / R	1313-0008
KBS-PF50	50	2"	44.5	75	5	200ft(61 M) / R	1313-0009



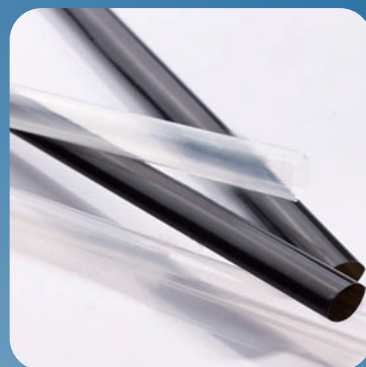
Web



eDM

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B009A1-EN-2016.07.05