KST™

Future Connection

Heat Shrink Tubing And Accessories

Since 1973



Professional Terminals and Connectors Supplier

Heat Shrink Tubing And Accessories

HST-GF

` E 'rA˜5 N)>K^
*HQHUDO SXUSRVH IODPH UHWDUGDQW SRO\ROHILQ

RoHS ✓ 236¨!WX.2!71 V VM!Gjmf!op/!!F593463

4´ C>'.•	- & a - &	2SHUDWLQJ WHPSHUDWXUH oÎ a oÎ
6ç 55 N >'.•	- &	0LQLPXP VKULQN WHPSHUDWXUH oÎ
6ç 5+s!O5 N >'.•	- &	0LQLPXP IXOO\ UHFRYHU\ WHPSHUDWXUH oÎ

5 N Cn	6KULQNDJH 5DWLR
gE. 7»^Æ •j¿f"Aª0 Pä	9HU\ IOH[LEOH KLJKO\ IODPH UHWDUGDQW
+ô` . Fk#Ö>•YÊ0 =™j»6ð2œ2~0	5HVLVWDQW WR FRPPRQ IOXLGV DQG VROYHQWV
! EWFkBPCí •"ý+_$sfâ+70 Pä	([FHOOHQW SK\VLFDO FKHPLFDO DQG HOHFWULFDO SURSHUWLHV

X'.Ê<Â' 1°E 5£-Ì9T$s%-9Tgÿ'Æ •)ifâ+7M<MÊ •!* Ý ÚM)JÖ ÚM7#ïV<Fk Ä[^ •#Í(ý`k. X'E 5£7FMÁFk"ìYm$sfâMÁfâNƒfâ+7!* ÝFkh;RY: [? Û
:LGHO\ XVHG LQ LQGXVWULDO DQG FRPPHUFLDO ILHOG VXFK DV HOHFWULFDO LQVXODWLR
%HVLGHV XVHG FRPPRQO\ WR SURWHFW DQG FRYHU EXQGOHV ZLUHV
,GHQWLILHV RU FRORU FRGHV ZLUH FDEOHV WHUPLQDOV DQG FRPSRQHQWV

: >}h6RY n¸ ÚFd ÚLì ÚU´ Únª ÚM‡
PP a PP PP$ Ì ñYv8#A #W" +>j»
6WDQGDUG FRORU •EODFNÚZKLWHÚUHGÚEOXHÚ\HOORZÚJUHHQ
6L]H PP a PP PP LQFOXGHG LV ZLWKRXW SULQWLQJ EODQN WXEH

A7.å 3URSHUW\	8×=T 6SHFLILFDWLRQ 5	<êY$4w;“ 7HVW 0H	L6Z 7\SLFDO 9
N#ø e^Cn /RQJLWXGLQDO VKULQNDJH	PD[	$670 '	œ
f- 0 &RQFHQWULFLW\	PLQ	$670 '	•
4Û/ / .• 7HQVLOH VWUHQJWK	03D PLQ	$670 '	• 03D
5žX© e^Cn (ORQJDWLRQ DW EUHDN	PLQ	$670 '	•
A˜XD4± oÎ +ö6) +HDW VKRFN oÎ KU1⁄VR FUDFNLQJ		$670 '	3DVV
!ž/56Ù oÎ +ö6) &ROG EHQG oÎ KUV1R FUDFNLQJ		$670 '	3DVV
Oè"ý4Û/ / .• 7HQVLOH VWUHQJWK DIWHU DJLQJ oÎ KUV	RI RULJLQDO PLQ	$670 '	•
Oè"ý.Ý .• (ORQJDWLRQ DIWHU DJLQJ oÎ KUV	PLQ	$670 '	•
O÷(º 'LHOHFWULF YROWDJH ZLWKVWDQG9DQG HFU H1DRN G RZ Q NG R ZQ			3DVV
4±Jf/ .• 'LHOHFWULF VWUHQJWK	.9 PP PLQ	$670 '	.9 PP
j»J4fâf"Cn 9ROXPH UHVLVWDQFH	ˆ FP PLQ	$670 '	• •ˆ FP
blQ7W<0 &RSSHU FRUURVLRQ	1R FRUURVLRQ	$670 '	3DVV
blJP+•0 &RSSHU VWDELOLW\	(ORQJDWLRQ •	$670 '	3DVV
f"Aª0)ODPPDELOLW\	9:	8/	3DVV

Cà#•&IU 3DUW 1XPE	*ø*¶ K1`Ž H1UR PLQDO 6L]	3ôLì! *ø*¶ K1`Ž $V VXSSOLHG		3ôLì.J*ø*¶ K1`Ž P$P WHU UHFRYHU		8×=TdŠ-d K1 6WDQGDUG /H	W»^Þ4WU 0)* 3 1
		%.O , '	'•"X W.T.	%.O 5¾å ú , ' PD	'•"X 5¾*Í ú : 7 PLQ		
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				

Cà#•&IU 3DUW 1XPEH1UR	*ø*¶ K1`Ž PLQDO 6L]H	3ôLì! *ø*¶ K1`Ž $V VXSSOLHG		3ôLì.J*ø*¶ K1`Ž P$PWHU UHFRYHUHG		8×=TdŠ-d K1 6WDQGDUG /H	W»^Þ4WU 0)* 3 1
		%.O , '	'•"X W.T.	%.O 5¾'å ú , '	'•"X 5¾*Í ú PDL : 7 PLQ		
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		◦	◦				

Cà#•&IU 3DUW 1XPE	*ø*¶ K1`Ž H1UR PLQDO 6L]H	3ôLì! *ø*¶ K1`Ž $V VXSSOLHG		3ôLì.J*ø*¶ K1`Ž P$P WHU UHFRYHU		8×=Td5-d K1 6WDQGDUG /H	W»^Þ4WU 0)* 3 1
		%.O , '	'•"X W.T.	%.O 5¾'å ú , ' PDX	'•"X 5¾*Í ú : 7 PLQ		
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				
+67 *) +67 *) +67 *) +67 *) +67 *) +67 *)	%. 5(%/ </ :+ *1	◦	◦				

Cà#•&IU 3DUW 1XPE	*ø*¶ K1`Ž 1UPLQDO 6L]	3ôLì! *ø*¶ K1`Ž $V VXSSOLHG		3ôLì.J*ø*¶ K1`Ž P$P WHU UHFRYHU		8×=Td5-d K1 6WDQGDUG /H	W»^Þ4WU 0)* 3 1
		%.O , '	'•"X W.T.	%.O 5¾'å ú , ' PD	'•"X 5¾*Í ú [: 7 PL		
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				
+67 *) %. +67 *) 5(+67 *) %/ +67 *) </ +67 *) :+ +67 *) *1		°	°				

HST-GF-YG

3Œ' : I!E nªM‡A˜5 N Kˆ
<HOORZ *UHHQ VWULSHG SRO\ROHILQ WXELQJ

RoHS ✓ 236¨!WX.2!71 VM!Gjmf!op/!!F593463

4´ C>'.•	- & a - &	2SHUDWLQJ WHPSHUDWXUH oÎ a oÎ
6ç 55 N >'.•	- &	0LQLPXP VKULQN WHPSHUDWXUH oÎ
6ç 5+s!O5 N >'.•	- &	0LQLPXP IXOO\ UHFRYHU\ WHPSHUDWXUH oÎ

5 N Cn	6KULQNDJH 5DWLR
fÀJ h6RYE 5£: [?	'XDO FRORUV IRU LQVWDQW LGHQWLILFDWLRQ
h6RY0- , •5 ¦FkE 5£: Yÿ	3HUPDQHQW WXELQJ FRORUV DUH VXSHULRU WR FRQYHQWLRQDO L
K #ï 5 R + 6	0HHW 5R+6

nªM‡FßezFk8„LòB§)>Kˆ •E 5£: [?' MÁ ÛX'.Ê<Â' 1°E 5£fâMÁ: Yÿ •h6RYYÊH£ •fâ+7M<MÊK0gÿ'Æ Û
8QLTXH \HOORZ JUHHQ VWULSHG FRORU XVHG IRU LGHQWLI\LQJ HDUWK FDEOHV ZKLFK DS
HOHFWULFDO LQVXODWLRQ RI ZLUH KDUQHVV DVVHPEOLHV &RPSO\ ZLWK LQWHUQDWLRQD

: >}h6RY nªM‡Fßez
6WDQGDUG FRORU •\HOORZ JUHHQ

A7.å 3URSHUW\	8×=T 6SHFLILFDWLRQ 5	<êY$4w;“ 7HVW 0H	L6Z 7\SLFDO 9
e^.•[q"ýCn /RQJLWXGLQDO FKDQJH	±10%	$670 '	3DVV
f- 0 &RQFHQWULFLW\	PLQ	$670 '	•
4Û/ / .• 7HQVLOH VWUHQJWK	03D PLQ	$670 '	• 03D
5žX© e^Cn (ORQJDWLRQ DW EUHDN	PLQ	$670 '	•
A˜XD4± +HDW VKRFN oÎ KUV	1R FUDFNLQJ	$670 '	3DVV
!ž/56Ù &ROG EHQG oÎ KUV	1R FUDFNLQJ	$670 '	3DVV
Oè"ý4Û/ / .• 7HQVLOH VWUHQJWK DIWHU DJLQJ oÎ KUV	RI RULJLQDO PLQ	$670 '	•
Oè"ý.Ý .• (ORQJDWLRQ DIWHU DJLQJ oÎ KUV	PLQ	$670 '	•
O÷(º 'LHOHFWULF YROWDJH ZLWKVWDQG9DQG'HFUHDVH1RWGHWHFWHGZLWKLQ6HFRQGV			3DVV
4±Jf/ .• 'LHOHFWULF VWUHQJWK	.9 PP PLQ	$670 '	.9 PP
j»J4fâf"Cn 9ROXPH UHVLVWDQFH	ˆ FP PLQ	$670 '	• •ˆ FP
blQ7W<0 &RSSHU FRUURVLRQ	1R FRUURVLRQ	$670 '	3DVV
blJP+•0 &RSSHU VWDELOLW\	(ORQJDWLRQ •	$670 '	3DVV
f"Aª0)ODPPDELOLW\	9:	8/	3DVV

Cà#•&IU 3DUW 1XPEHU	*ø*¶ 1RPLQDO 6L]H$V VXSSOLHG		3ôLì! *ø*¶ K1`Ž VXSSOLHG		3ôLì.J*ø*¶ K1`Ž PąWHU UHFRYHUHG		8×=Td5-d K1 6WDQGDUG /H	W»^Þ4WU 0)* 3 1
	K1`Ž PP	Q¯"É LQFK	%.O 5¾*Í ú , ' PLQ	'•"X W.T.	%.O 5¾'å ú , ' PDX	'•"X W.T.		
+67 *) <*				0.20	0.8	0.43±0.08	200	
+67 *) <*	2.4		2.4			°	200	
+67 *) <*	3.2		3.2			°	200	
+67 *) <*	4.8		4.8		2.4	°		
+67 *) <*				0.30	3.2	°		
+67 *) <*	8.0		8.0	0.30	4.0	°		
+67 *) <*				0.30	4.8	°		
+67 *) <*						°		
+67 *) <*					8.0	°		
+67 *) <*				0.40		°		
+67 *) <*						°		
+67 *) <*						°		
+67 *) <*						°		
+67 *) <*		2				°		

+67 $ +67 $

fÀ(¨$ Q‡'rA˜5 N)>Kˆ
$GKHVLYH OLQHG SRO\ROHILQ WXELQJ

RoHS ✓ 236¨!WX.2!71 V VM!Gjmf!op/!!F593463

4´ C>'.•	- & a - &	2SHUDWLQJ WHPSHUDWXUH oÎ a ‹Î
6ç 55 N >'.•	- &	0LQLPXP VKULQN WHPSHUDWXUH oÎ
6ç 5+s!O5 N >'.•	- &	0LQLPXP IXOO\ UHFRYHU\ WHPSHUDWXUH oÎ

5 N Cn	6KULQNDJH 5DWLR
j¿Fk4Û/ ôCn3· , m! EWFkfâMÁ$s` 3Œ&OFk+-+è	+LJK H[SDQVLRQ UDWLR WR SURYLGH H[FHOOHQWO\ VHD
E 5£2 !Nfâ+71°E Fk+-+è$s Ä[^	(QYLURQPHQWDOO\ VHDOV DQG SURWHFWV LQGRRU HOHF
ôfçYhIâer` 3Œ&O, #Ö Ì5 ¦Fk ÕXÃ3ô(ÅFkfâNƒ!N,K	&RQYHQLHQWO\ UHSDLU PRVW GDPDJHG FDEOH MDFNHW\
#Ö`_E (9$A˜A{Q‡1ýj¿>'>•nÅPA@ÖPá 3$ A˜A{Q‡	(9$ KRW PHOW DGKHVLYH RU KLJK PHOWLQJ 3$ DGKHVLYE

E PA@Ö@Û$sA˜A{Q‡!X4ÇXä` Oó1÷ •E 5£fçYhf < FkfâMÁfâNƒ •a4MÁ$s` 3Œ&OFk Ä[^ Û#Ö Ì/o)d' 1°E 5£fâ+7!*< Ý$s` È-Ì9T Û
0DQXIDFWXUHG E\ FR H[WUXVLRQ RI SRO\ROHILQ DQG KRW PHOW DGKHVLYH (VSHFLDOO\ U
KDUQHVVHV DQG SURWHFWLRQ RI FRQQHFWRU WR FDEOH WUDQVLWLRQV 7\SLFDOO\ DSSO
HOHFWURQLF FRPSRQHQWV DQG FRPPXQLFDWLRQ LQGXVWU\

: >}h6RY n¸
6WDQGDUG FRORU •EODFN

A7.å 3URSHUW\	8×=T 6SHFLILFDWLRQ 5	<êY$4w;“ 7HVW 0H	L6Z 7\SLFDO 9
4Û//.• 7HQVLOH VWUHQJWK	03D PLQ	$670 '	• 03D
Oè"ý4Û//.• 7HQVLOH VWUHQJWK DIWHU DJLQJ oÎ KUV	RI RULJLQDO PLQ	$670 '	•
5žX© e^Cn (ORQJDWLRQ DW EUHDN	PLQ	$670 '	• PLQ
Oè"ý5žX© e^Cn (ORQJDWLRQ DW EUHDN DIWHU DJLQJ oÎ KUV	PLQ	$670 '	• PLQ
N#ø5 N Cn /RQJLWXGLQDO VKULQNDJH	PD[	8/	WR
A˜XD4± +HDW VKRFN	1R FUDFNLQJ	$670 '	3DVV
!ž/56Ù &ROG EHQG oÎ KUV	1R FUDFNLQJ	$670 '	1R FUDFNLQJ
M<MÊO÷(º 'LHOHFWULF YROWDJH ZLWKVWDQG	1R EUHDNGRZQ	$670 '	1R EUHDNGRZQ
j»J4fâf"Cn 9ROXPH UHVLVWDQFH	ˆ FP PLQ	$670 '	• •ˆ FP PLQ
f"Aª0)ODPPDELOLW\	$OO WXELQJ IODPH WHVW	8/	3DVV
blQ7W<0 &RSSHU FRUURVLRQ oÎ	K1UV FRUURVLRQ	$670 '	3DVV

Cà#•&IU 3DUW 1XP	*ø*¶ 1RPLQDO		3ôLì! *ø*¶ K1`Ž 6L$HV VXSSOLHG		3ôLì.J*ø*¶ K1`Ž PP $IWHU UHFRYHUHG PP		8×=Td5-d K1 6WDQGDUG /H	W»^Þ4WU 0)* 3 1
	K1`Ž PP	Q¯"É LQFK	%.O , '	'•"X W.T.	%.O 5¾'å ú , ' PD	'•"X W.T.	P^"X QRPLQDO $GKHVLYH WK	LQNQHVV
+67 $;						°	°	
+67 $;						°	°	
+67 $;						°	°	
+67 $;						°	°	
+67 $;						°	°	
+67 $;						°	°	
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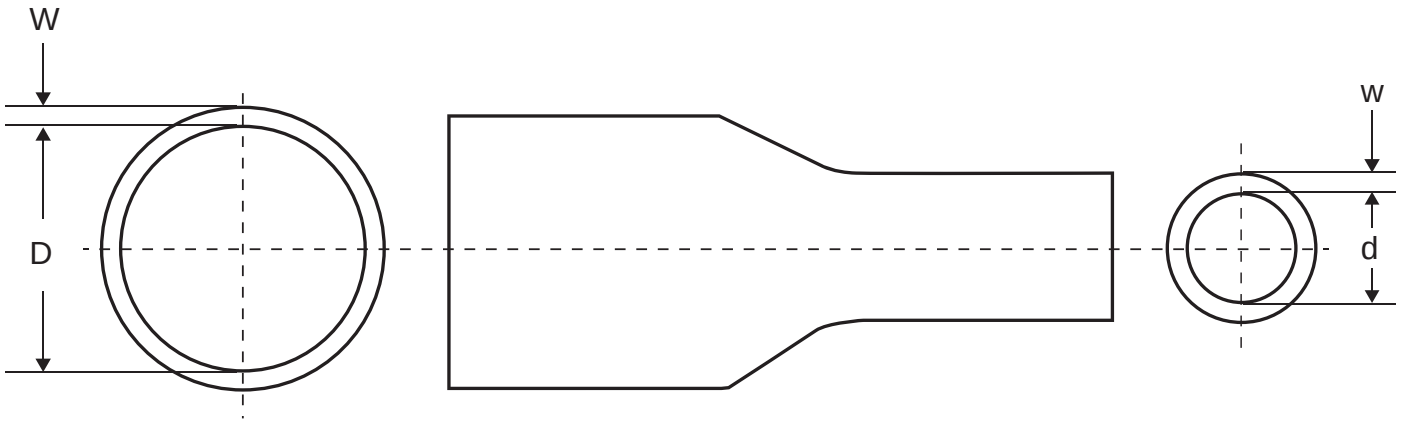
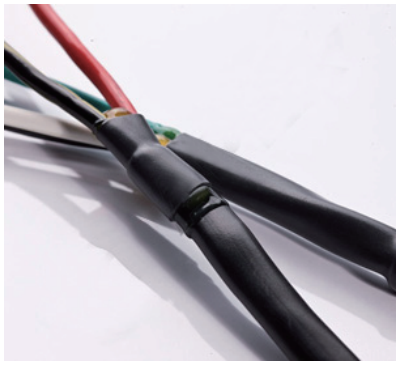
+67 $;						°	°	

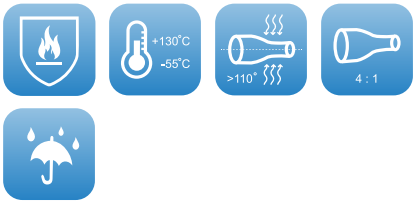


HST-AU

車用線束含膠熱縮套管
High shrink ratio semirigid polyolefin tubing

RoHS ✓





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℃ ~ 130℃
- Minimum shrink temperature : 110℃
- Minimum fully recovery temperature : 135℃

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 Polymaide adhesive liner can be against water, moisture and corrosion. Sem-rigid outer wall provides excellent abrasion protection and strain relief for strict environment requirement.

顏色 Color

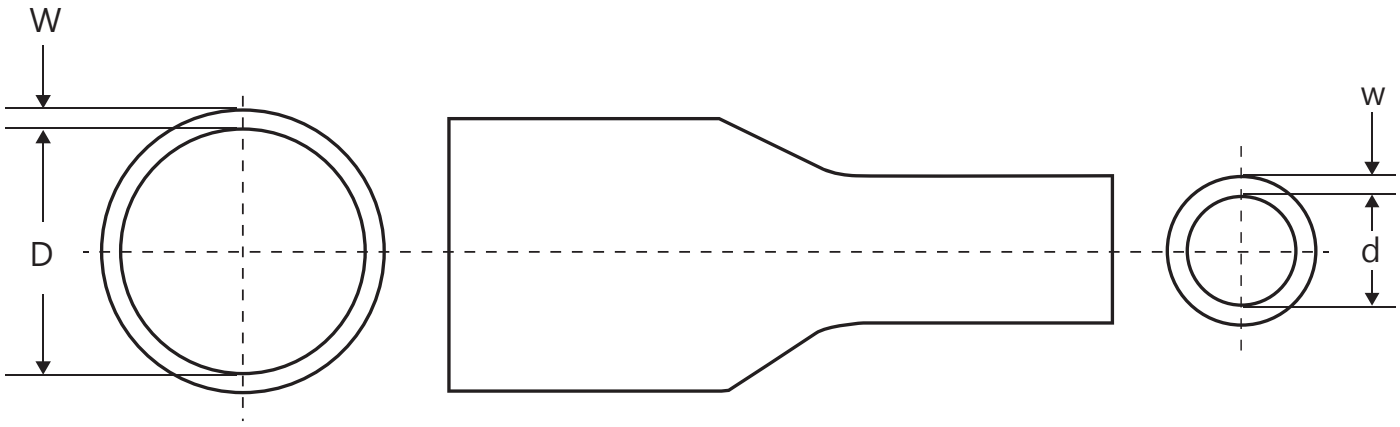
標準顏色: 黑
Standard color ：black

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℃,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℃,168 hrs.	ASTM D 2671	100% (min.)
縱向收縮率 Longitudinal shrinkage	UL224	0 to -10%
熱衝擊 Heat shock(250℃, 4hrs.)	ASTM D 2671	No cracking, no dropping
冷彎曲 Cold bend(-40℃, 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℃, 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℃

產品規格 Product Dimensions

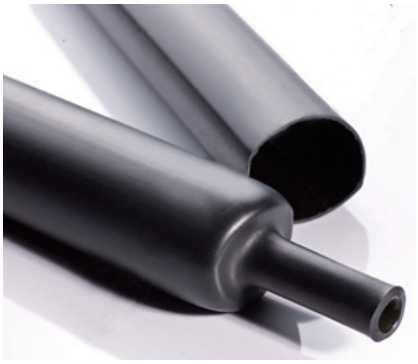
產品型號 Part Number	收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚 W.T.		
HST-AU5.7	5.72	1.27	1.2	1.22	1312-0282
HST-AU7.4	7.44	1.65	1.52	1.22	1312-0283
HST-AU10	10.85	2.41	1.91	1.22	1312-0284
HST-AU17	17.78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

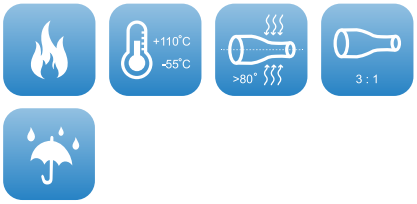


HST-AG

通用型中壁含膠熱收縮套管
Medium wall tubing with hot melt adhesive

RoHS ✓





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℃ ~ 110℃
- Minimum shrink temperature : 80℃
- Minimum fully recovery temperature : 120℃

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℃, 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℃)	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℃
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

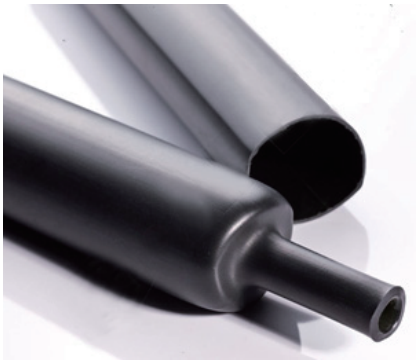
產品規格 Product Dimensions

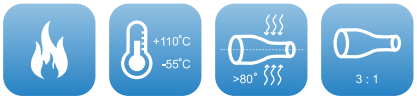
產品型號 Part Number	收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
ATM medium wall tubing with hot melt adhesive 中壁含膠					
HST-AG8	8	2	1.7	1.22	1312-0286
HST-AG12	12	3	1.8	1.22	1312-0287
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-AG205	205	65	3.5	1.22	1312-0304
HST-AG235	235	65	3.7	1.22	1312-0305
HST-AG265	265	75	4	1.22	1312-0306
HST-AG300	300	85	4	1.22	1312-0307
HST-AG350	350	100	4.3	1.22	1312-0308
HST-AG380	380	150	4.3	1.22	1312-0309
HST-AG410	410	150	4.3	1.22	1312-0310

HST-GG

通用型中壁不含膠熱收縮套管
Medium wall tubing without hot melt adhesive

RoHS ✓





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℃ ~ 110℃
- Minimum shrink temperature : 80℃
- Minimum fully recovery temperature : 120℃

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℃, 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℃)	ASTM D 1693	No cracking
吸水率 Water absorption	ISO 62	< 0.15%

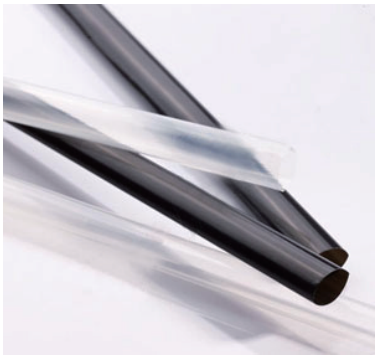
產品規格 Product Dimensions

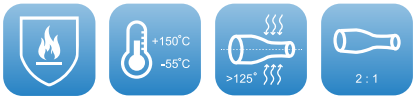
產品型號 Part Number	收縮前尺寸 (米釐) As supplied (mm)	收縮後尺寸 (米釐) After recovered (mm)		標準長度 (米) Standard Length (M)	製造料號 MFG P/N
	內徑(最小值) I.D. (min.)	內徑(最大值) I.D. (max.)	壁厚(最小值) W.T. (min.)		
ATM medium wall tubing without hot melt adhesive 中壁不含膠					
HST-GG8	8	2	1.7	1.22	1312-0241
HST-GG12	12	3	1.8	1.22	1312-0242
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

RoHS ✓ 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℃ ~ 175℃
- Minimum shrink temperature : 125℃
- Minimum fully recovery temperature : 150℃

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℃ 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℃, 4hrs.)	No cracking, dripping or flowing	ASTM D 2671	Pass
低溫柔軟性 Low temperature flexibility(-55℃, 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℃ ~ 125℃

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

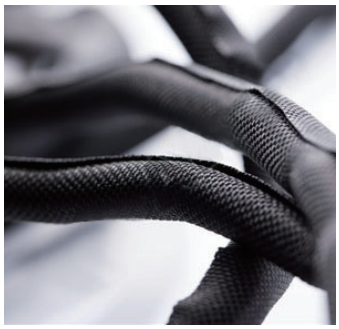
產品規格 Product Dimensions

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		英呎/每卷 Feet/Roll	公尺/每卷 Mater/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

RoHS ✓





Non-flame retardant　Flame retardant

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℃ ~ 125℃ (Non-flame retardant)
  -40˚C~150˚C (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%

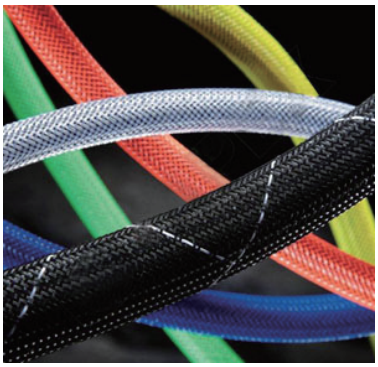
產品規格 Product Dimensions

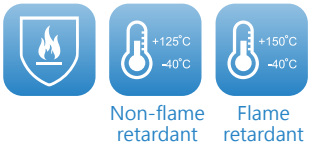
產品型號 Part Number	尺寸 Nominal Size 米釐 mm	張開寬度(米釐) Opening expansion width (mm)	包裝 Packing 公尺/每卷 Mater/Roll	製造料號 MFG P/N
Flame retardant material 阻燃材質				
KBS-CF5	5	29±5	30.5	1313-0031
KBS-CF8	8	45±5	30.5	1313-0032
KBS-CF10	10	55±5	22.8	1313-0033
KBS-CF13	13	68±5	22.8	1313-0034
KBS-CF16	16	75±5	15.2	1313-0035
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





Non-flame retardant　Flame retardant

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

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

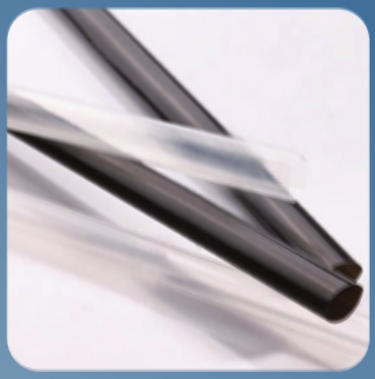
產品型號 Part Number	折徑尺寸 Nominal Size		Expansion range DIA (mm)		編數 Ends	包裝 Packing	製造料號 MFG P/N
	米釐 mm	英吋 inch	最小值 min.	最大值 max.		Feet(M) / R	
Flame retardant material 阻燃材質							
KBS-PF3.2	3.2	1/8"	2.37	6.35	1	1000ft(305 M) / R	1313-0001
KBS-PF6.4	6.4	1/4"	3.17	9.53	3	1000ft(305 M) / R	1313-0002
KBS-PF9.5	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

KST™
Future Connection

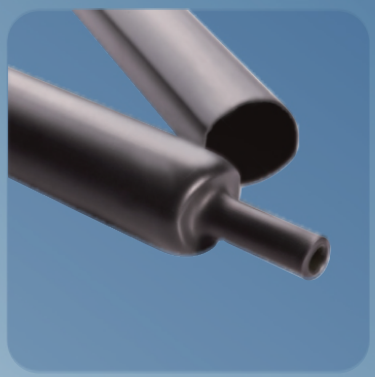
Web

eDM Website

公司官網：www.ksterminals.com
產品目錄：edm.ksterminals.com
http://sbm.kwaegtrade.com







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