

ST-E Series

Shift Cable Chain - Enclosed type



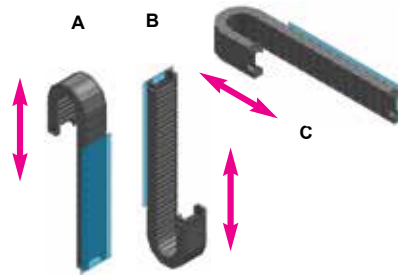
Ordering Information

ST 044 E . 100 . R120 / F - (XXXmm)
 ① ② ③ ④ Length

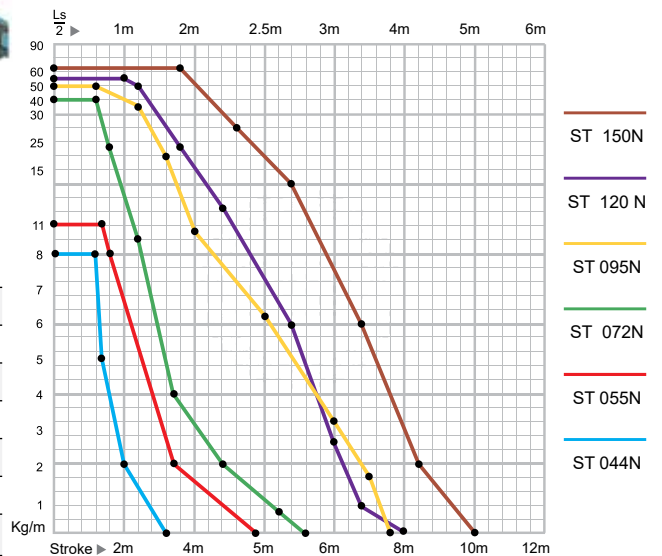
① Pitch (mm)	② Inner Width	③ Bending Radius	④ Bracket Type	Size (Unit : mm)				Frame type	Weight (kg/m)
				A	B	C	D		
044	35	70	F Free End Bracket	56	38	35	24.5		1.03
	55	90		76		55			1.21
	75	120		96		75			1.37
	100	150		121		100			1.58
055	50	100	FT Bracket With Tie Wrap	71	52	50	38.5		1.36
	75	125		96		75			1.56
	100	150		121		100			1.76
	125	200		146		125			1.97
	150			171		150			2.21
072	50	120	FST Bracket With System Tie Wrap	82	66	50	44		2.37
	75	145		107		75			2.61
	100	200		132		100			2.85
	125	250		157		125			3.09
	150	300		172		150			3.33
095	100	150		138	82	100	55		3.55
	125	200		163		125			3.79
	150	230		188		150			4.04
	175	280		213		175			4.29
	200	400		238		200			4.53
120	150	200		192	108	150	76		5.79
	200	250		242		200			6.43
	250	300		292		250			7.07
	290	400		342		290			7.71
	300	500				300			
150	200	305		246	140	200	110		8.16
	250	405		296		250			8.76
	300	505		346		300			10.50
	350	605		396		350			12.33
	400			446		400			14.16

Other Length Restrictions

Type	Vertical standing (Max) A	Vertical Hanging (Max) B	Side Mounted Unsupported (Max) C
ST 044N	2.0m	40m	1.0m
ST 055N	3.0m	50m	1.0m
ST 072N	6.0m	100m	2.5m
ST 095N	6.0m	100m	3.0m
ST 120N	6.0m	120m	3.0m
ST 150N	7.0m	150m	4.0m



Unsupported Length



Specifications

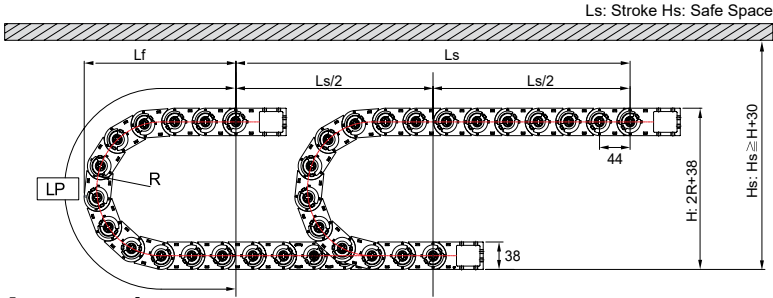
Material	CPS-Amid(PA6+GF)
Noise Range	40dB
Speed	3m/s
Acceleration	10m/s ²
Temperature	-30°C~+130°C
Special Production	ESD, UV
Certificate	CE, ATEX(Ex), RoHS

How to Choose Bending Radius

Bending Radius	The biggest Cable inserted	Multiply 8~10 and the biggest cable
	The biggest Hydraulic Hose inserted	Multiply 15~20 and the biggest hose

ST 044E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
70	396	177	178
90	459	197	218
120	553	227	278
150	648	257	338

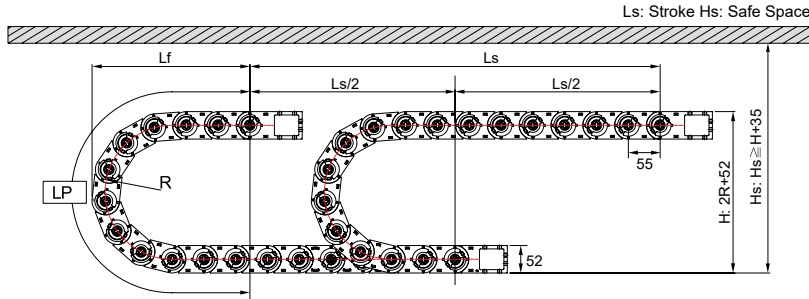
Accessories

Free end bracket						System tie wrap			Tie wrap			
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B	C
ST-FEB044E	60.4 80.4 100.4 125.4	38	35 55 75 100	24.5	0.4 20.4 40.4 65.4	S-TW.EB028.35 S-TW.EB028.55 S-TW.EB028.75 S-TW.EB028.100	35 55 75 100	M6 Bolt Holes	S-TW036/025CR.35 S-TW036/025CR.55 S-TW036/025CR.75 S-TW036/025CR.100	46 70 94 118	35.4 48.9 48.9 48.9	- 20 40 65

Dividers	① sb-DV028/S			② sb-DV028/M1			③ sb-DV028/M2		
	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M1 divider is used to separate individual cables</p> <p>③ M2 divider is used to fasten a separator that is shorter than the frame length</p> <p>④ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>								
	<p>④ sb-DV028/W</p> <p>System Tie Wrap</p>								
Separators	Ordering NO.			Frame					
	<p>← 20 - 100 mm →</p>			<p>S-SP/M.35 35</p> <p>S-SP/M.55 55</p> <p>S-SP/M.75 75</p> <p>S-SP/M.100 100</p>					

ST 055E

Calculation of the chain length



$$[L = \frac{Ls}{2} + Lp]$$

(Unit : mm)

Bending Radius (R)	Lp Loop Length	Lf Loop Projection	H Moving Height
100	535	236	252
125	613	261	302
150	692	286	352
200	849	336	452

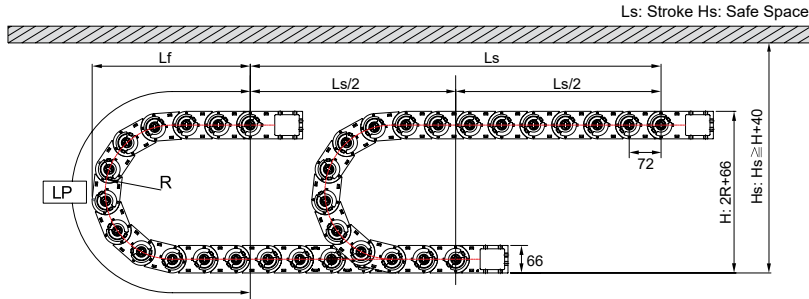
Accessories

Free end bracket						System tie wrap			Tie wrap				
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B	C	D
ST-FEB055E	79 104 129 154 179	52	50 75 100 125 150	38.5	18 43 68 93 118	S-TW.EB035.50 S-TW.EB035.75 S-TW.EB035.100 S-TW.EB035.125 S-TW.EB035.150	50 75 100 125 150	M6 Bolt Holes	S-TW050/035N.50 S-TW050/035N.75 S-TW050/035N.100 S-TW050/035N.125 S-TW050/035N.150	82 107 132 157 182	64.5	12.00 12.13 15.25 14.70 14.35	5 30 55 80 105

Dividers	sb-DV035/S			sb-DV035/M1			sb-DV035/M2		
	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M1 divider is used to separate individual cables</p> <p>③ M2 divider is used to fasten a separator that is shorter than the frame length</p> <p>④ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>								
	sb-DV035/W								
	<p>System Tie Wrap</p>								
Separators	Ordering NO.				Frame				
	<p>← 20 - 150 mm →</p> <p>S-SP/M.50 S-SP/M.75 S-SP/M.100 S-SP/M.125 S-SP/M.150</p>				<p>50 75 100 125 150</p>				

ST 072E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
120	665	297	306
145	743	322	356
200	916	377	466
250	1,074	427	566
300	1,230	477	666

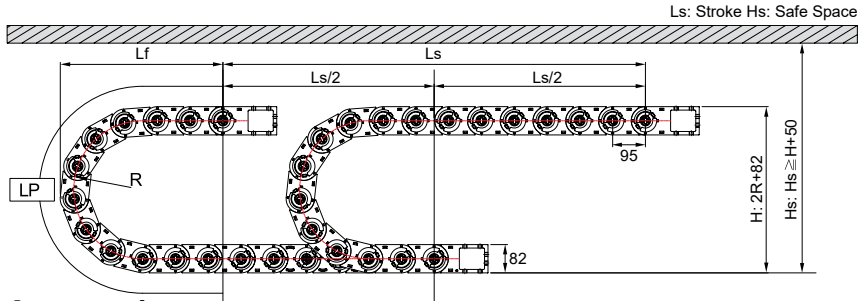
Accessories

Free end bracket						System tie wrap			Tie wrap		
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
ST-FEB072E	82 107 132 157 182	66	50 75 100 125 150	44	10 35 60 85 110	S-TW.EB045.50 S-TW.EB045.75 S-TW.EB045.100 S-TW.EB045.125 S-TW.EB045.150	50 75 100 125 150	M6 Bolt Holes	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

Dividers	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M divider is used to separate individual cables</p> <p>③ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>	<p>① sb-DV045/S</p>	<p>② sb-DV045/M</p>	
		<p>③ sb-DV045/W</p>	<p>System Tie Wrap</p>	
	<p>Ordering NO.</p> <p>sb-SP/400.400 Cut to length (400 mm)</p>			
Separators				

ST 095E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
150	855	374	382
200	1,010	428	482
230	1,110	459	542
280	1,260	505	642
400	1,640	629	882

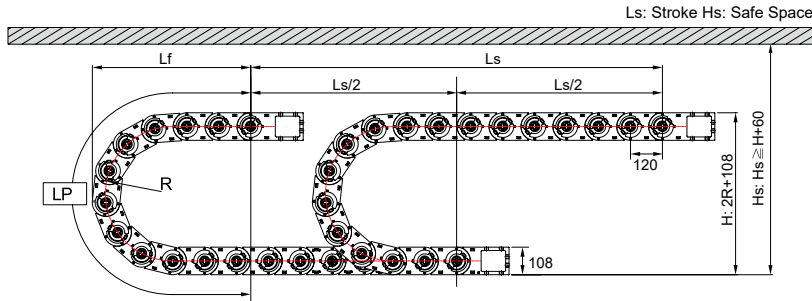
Accessories

Free end bracket						System tie wrap			Tie wrap		
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M.EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
ST-FEB095E sb-FEB/WH060	138 163 188 213 238	82	100 125 150 175 200	56	49 74 99 124 149	S-TW.EB060.100 S-TW.EB060.125 S-TW.EB060.150 S-TW.EB060.175 S-TW.EB060.200	100 125 150 175 200	M10 Bolt Holes	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

Dividers	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M divider is used to separate individual cables</p> <p>③ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain</p>	① sb-DV060/S		② sb-DV060/M	
		③ sb-DV060/W			
				<p>System Tie Wrap</p>	
Separators		<p>Ordering NO.</p> <p>sb-SP/400.400 Cut to length (400 mm)</p>			

ST 120E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p]$$

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
200	1,109	494	508
250	1,266	544	608
300	1,423	594	708
350	1,580	644	808
400	1,737	694	908
500	2,051	794	1,108

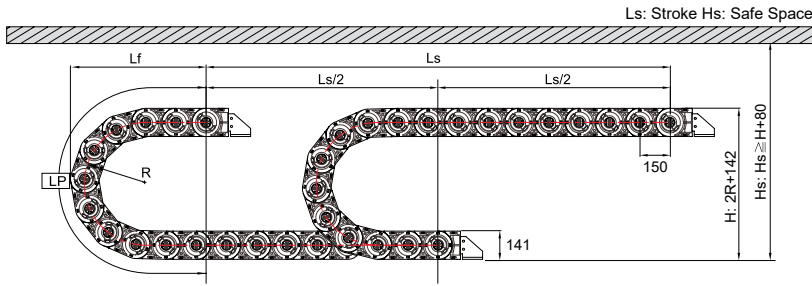
Accessories

Free end bracket						System tie wrap			Tie wrap		
Ordering No.	A Width (Outer)	B Height (Outer)	C Frame	D Height (Inner)	E M. EB Bolt hole width	Ordering No.	C Frame	Hole Type	Ordering No.	A	B
ST-FEB120E sb-FEB/WH075	200 250 300 350	108	150 200 250 300	76	90 140 190 240	S-TW.EB075.150 S-TW.EB075.200 S-TW.EB075.250 S-TW.EB075.300	150 200 250 300	M10 Bolt Holes	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

Dividers	① sb-DV075/S		② sb-DV075/M	
	<p>① S divider is used to fix a separator that is the same length as the frame</p> <p>② M divider is used to separate individual cables</p> <p>③ W (Tie wrap) dividers are used to hold the cables in place at both ends of the cable chain size</p>			<p>③ sb-DV075/W</p>
Separators	<p>Ordering NO.</p> <p>sb-SP/400.400 Cut to length (400 mm)</p>			

ST 150E

Calculation of the chain length



$$[L = \frac{L_s}{2} + L_p]$$

(Unit : mm)

Bending Radius (R)	L p Loop Length	L f Loop Projection	H Moving Height
305	1,510	651	752
405	1,807	743	952
505	2,106	835	1,152
605	2,405	928	1,352

Accessories

Steel end bracket				Tie wrap (TW)		
Ordering No.	B Height (Outer)	C Frame	D Height (Inner)	Ordering No.	A	B
ST-SEB150E/B(Steel)	141	200 250 300 350 400	110	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

Dividers ① S divider is used to fix a separator that is the same length as the frame ② M divider is used to separate individual cables 	① sb-DV/S100/S 	② sb-DV100/M
	Ordering NO. sb-SP/600.600 Cut to length (600 mm)	
Separators ③ 		

C10	Enclosures	Fuse Holders	Terminal Blocks	Relay Terminal Blocks	Relay & Sockets	SSR	Foot Switches	Limit Switches	Pushbutton Switches	Buzzer Alarms	LED Indicators Pilot Lamps	Beacon Lights	Tower Lights	AmeriMation
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