nsb Chain-Enclosed Type

Sabin Chain®

General Information

Material : CPS-Amide (PA6+G.F)
Speed : 10m/s
Acceleration : 20m/s²
Temperature : -30℃ ~ +130℃
Special production : ESD, UV, Customized color
Certificate : CE, ATEX(Ex), RoHs2

Value of Speed/Acceleration is subject to change according to cable's amount and travel length.

Calculation Table

Length of Cable Chain

: L = ½ X Ls +Lp

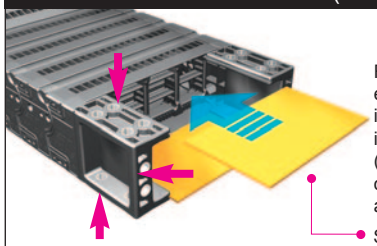
Bending Radius

: Multiply 8~10 of the biggest cable

: Multiply 15~20 of the biggest hose

Bracket Type

Free End Bracket (FEB)



FEB can be fully enclosed by inserting Steel Plate like in the image. (Steel Plate can be ordered separately))

Steel Plate

Dimension Table

nsb Chain-Enclosed Type	Pitch	Bending Radius (R)	Weight kg/m	Speed m/s	Temperature ℃	Size A	Size B	Size C	Size D	Frame Type	Section-Composition
nsb028E	28	66 86 116 146	1.00 1.13 1.30 1.50	10	-30 ~+130	55 75 95 120	38	35 55 75 100	26		
nsb035E	35	90 115 140 190	1.45 1.64 1.83 2.06 2.28	10	-30 ~+130	70 95 120 145 170	52	50 75 100 125 150	40		
nsb045E	45	90 110 135 165 185 235 285	2.78 3.07 3.35 3.58	10	-30 ~+130	105 130 155 180	66	75 100 125 150	45		
nsb060E	60	125 135 150 180 230 270 340	4.32 4.86 5.41	10	-30 ~+130	140 190 240	82	100 150 200	56		
nsb075E	75	160 180 230 280 330 380 480	7.01 7.97 9.48	10	-30 ~+130	190 240 340	108	150 200 300	78		

Ordering

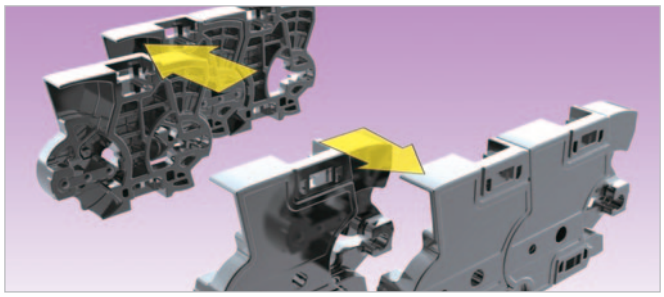
nsb | **028E.** | **55.** | **R66** / **F** | **980L** : **(DV:2)**

- (DV:2) — Quantity of Divider(Link)
- 980L — Length(mm)
- F — Bracket Type : **F**-Free End Bracket, **FT**-Tie Wrap, **FST**-System Tie Wrap
- R66 — Bending radius
- 55. — Inside width
- 028E. — nsb Chain-Enclosed Type (E)
- nsb — Sabin Chain

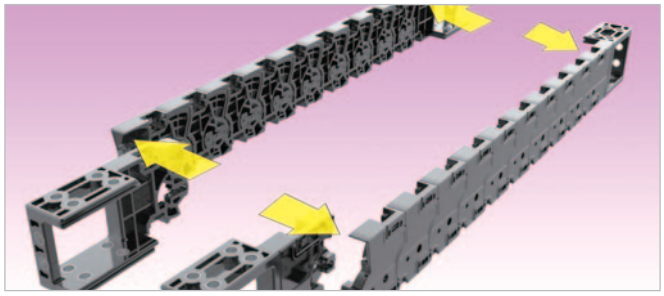
(Dimensions in mm) CP SYSTEM CO.,LTD. www.cpsystem.co.kr

Assembly procedure of nsb Chain-Enclosed Type

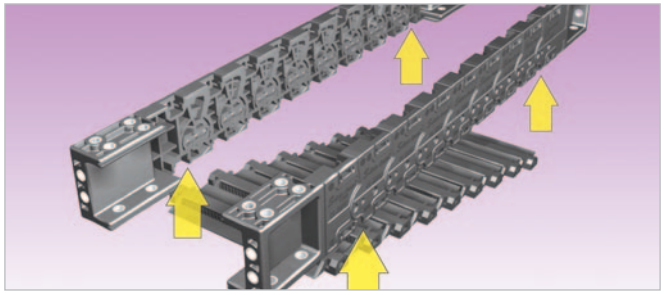
The assembling process of E-Type of New Sabin Chain is like below and user must use rubber hammer with careful combination of Divider and Separator.



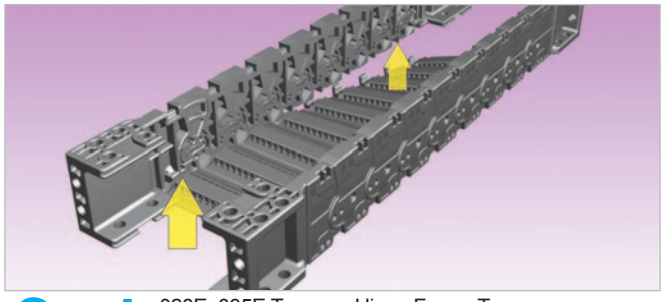
1 Connect each side band as many as you need.



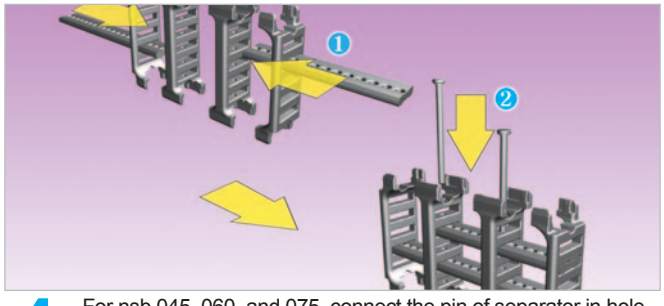
2 Assemble the end brackets on both ends.



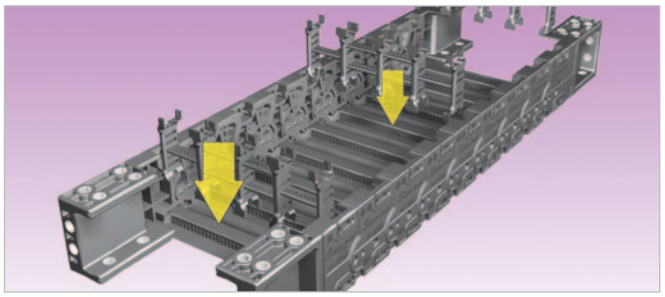
3 Attach frames starting with the bottom side of the carrier.



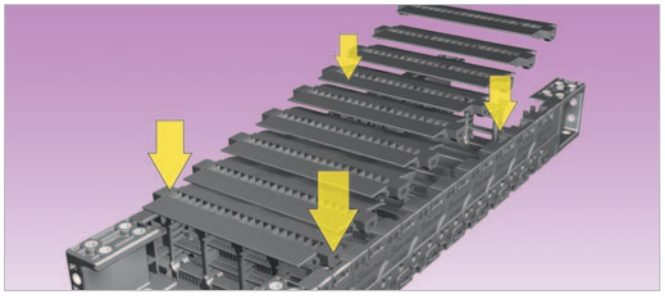
3–1 028E, 035E Type are Hinge Frame Type.



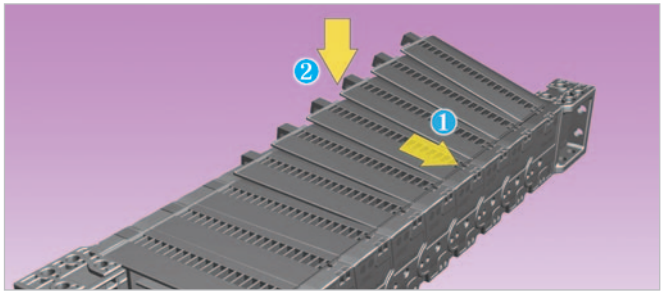
4 For nsb 045, 060, and 075, connect the pin of separator in hole of divider after inserting separator in hole of divider. For nsb028 and nsb035, separator fixing pins are not used.



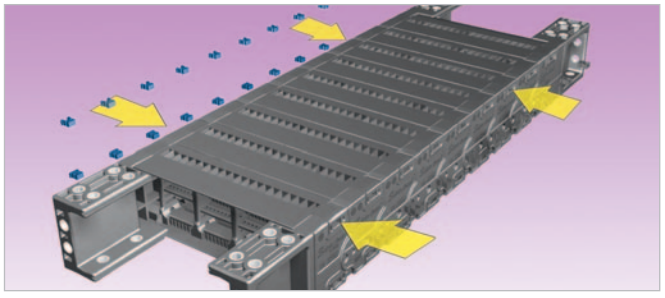
5 Fix the separator and divider patterns to the bottom-side frames as needed.



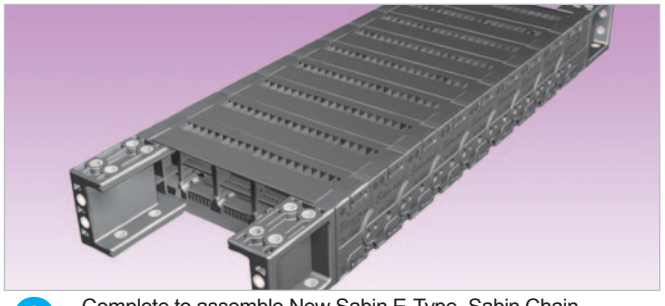
6 Fix the topside frames to the carrier.



6–1 028E, 035E Type are Hinge Frame Type.



7 Insert frame pins to secure the frames and complete carrier. (nsb045, 060, 075 are applied with frame pin, and nsb028, 035 are Hinge Type or Hook Type without frame pin.)



8 Complete to assemble New Sabin E-Type, Sabin Chain.

Part list of nsb Chain-Enclosed Type

Sabin Chain®

Composition of nsb Chain Enclosed Type

= Side band (RH/LH) + Frame (Upper/Lower) + Free End Bracket

M divider(normal divider) should be applied every second frames to make a section composition.

※ Please refer to below part list and description to understand composition of cable chain.

Model	Classification	Part number	Description
nsb028E	SIDE BAND	nsb-SB028E.R*(LH) nsb-SB028E.R*(RH)	Left side band of nsb028E Right side band of nsb028E
	FRAME	sb-FRD028.35 sb-FRU028.35 sb-FRD028.55 sb-FRU028.55 sb-FRD028.75 sb-FRU028.75 sb-FRD028.100 sb-FRU028.100	Frame, 35mm Frame, 35mm Frame, 55mm Frame, 55mm Frame, 75mm Frame, 75mm Frame, 100mm Frame, 100mm
	FREE END BRACKET	nsb-FEB028E	Free End bracket of nsb028E
	DIVIDER	sb-DV028/M sb-DV028/S	Normal divider To fix separstors at the both side section
	SEPARATOR	S-SP/M.35 S-SP/M.55 S-SP/M.75 S-SP/M.100	Separator, 35mm Separator, 50mm Separator, 75mm Separator, 100mm
	TIE WRAP	S-TW036/025CR.35 S-TW036/025CR.55 S-TW036/025CR.75 S-TW036/025CR.100	Tie wrap for end bracket to fix cables, 35mm Tie wrap for end bracket to fix cables, 55mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm
	SYSTEM TIE WRAP	sb-DV028/W S-TW.EB028	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket
nsb035E	SIDE BAND	nsb-SB035E.R*(LH) nsb-SB035E.R*(RH)	Left side band of nsb035E Right side band of nsb035E
	FRAME	sb-FRD035.50 sb-FRU035.50 sb-FRD035.75 sb-FRU035.75 sb-FRD035.100 sb-FRU035.100 sb-FRD035.125 sb-FRU035.125 sb-FRD035.150 sb-FRU035.150	Frame, 50mm Frame, 50mm Frame, 75mm Frame, 75mm Frame, 100mm Frame, 100mm Frame, 125mm Frame, 125mm Frame, 150mm Frame, 150mm
	FREE END BRACKET	nsb-FEB035E	Free End bracket of nsb035E
	DIVIDER	sb-DV035/M sb-DV035/S	Normal divider To fix separstors at the both side section
	SEPARATOR	S-SP/M.35 S-SP/M.50 S-SP/M.75 S-SP/M.100 S-SP/M.125 S-SP/M.150	Separator, 35mm Separator, 50mm Separator, 75mm Separator, 100mm Separator, 125mm Separator, 150mm
	TIE WRAP	S-TW050/035N.50 S-TW050/035N.75 S-TW050/035N.100 S-TW050/035N.125 S-TW050/035N.150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV035/W S-TW.EB035	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket
nsb045E	SIDE BAND	nsb-SB045E.R*(LH) nsb-SB045E.R*(RH)	Left side band of nsb045E Right side band of nsb045E
	FRAME PIN	S-FP/S1	Frame pin
	FRAME	sb-FRD045.75 sb-FRU045.75 sb-FRD045.100 sb-FRU045.100 sb-FRD045.125 sb-FRU045.125 sb-FRD045.150 sb-FRU045.150	Frame, 75mm Frame, 75mm Frame, 100mm Frame, 100mm Frame, 125mm Frame, 125mm Frame, 150mm Frame, 150mm
	FREE END BRACKET	nsb-FEB045E sb-FEB/WH045	Free End bracket of nsb045N Steel washer for end bracket
	DIVIDER	sb-DV045/M sb-DV045/S sb-DV045/T	Normal divider To fix separstors at the both side section T divider
	SEPARATOR	sb-SP/400.Frame SP-PIN045	Separator, 400mm Separator pin to fix
	TIE WRAP	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV045/W S-TW.EB045	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket

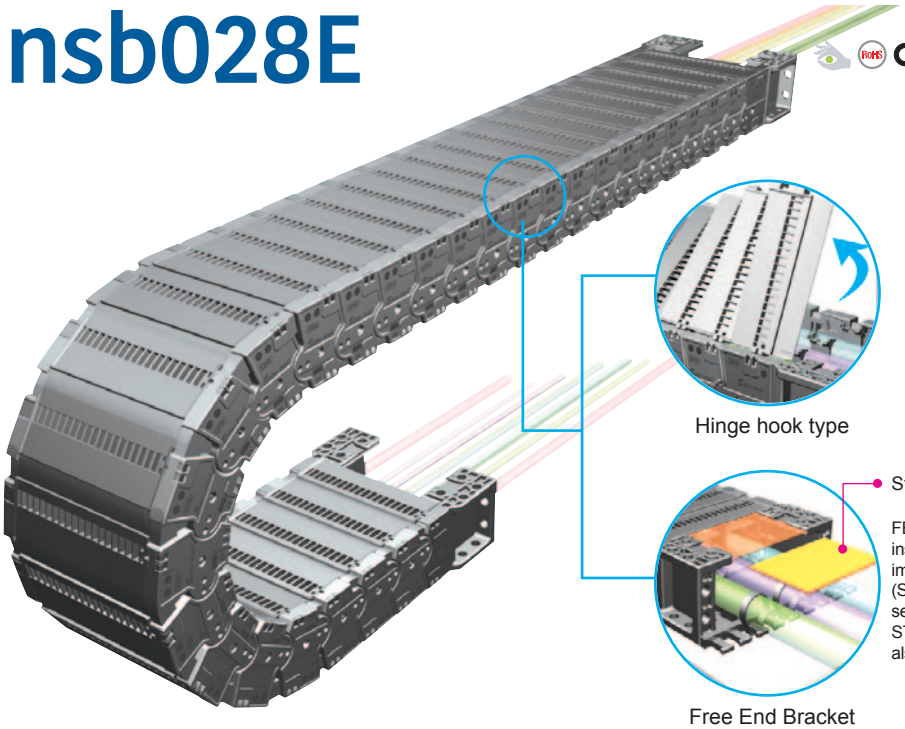
nsb Chain-Enclosed Type

Sabin Chain®

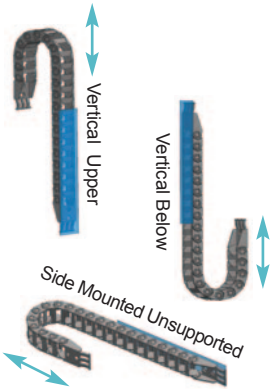
Model	Classification	Part number	Description
nsb060E	SIDE BAND	nsb-SB060E.R*(LH) nsb-SB060E.R*(RH)	Left side band of nsb060E Right side band of nsb060E
	FRAME PIN	S-FP/S1	Frame pin
	FRAME	sb-FRD060.100 sb-FRU060.100 sb-FRD060.150 sb-FRU060.150 sb-FRD060.200 sb-FRU060.200	Frame, 100mm Frame, 100mm Frame, 150mm Frame, 150mm Frame, 200mm Frame, 200mm
	FREE END BRACKET	nsb-FEB060E sb-FEB/WH060	Free End bracket of nsb060E Steel washer for end bracket
	DIVIDER	sb-DV060/M sb-DV060/S sb-DV060/R sb-DV060/T sb-DV060/TP	Normal divider To fix separstors at the both side section Roller divider to reduce friction with cables, Clean room type T divider T divider pin
	SEPARATOR	sb-SP/400.Frame SP-PIN060	Separator, 400mm Separator pin to fix
	TIE WRAP	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV060/W S-TW.EB060	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket
nsb075E	SIDE BAND	nsb-SB075E.R*(LH) nsb-SB075E.R*(RH)	Left side band of nsb075E Right side band of nsb075E
	FRAME PIN	S-FP/S2	Frame pin
	FRAME	sb-FRD075.150 sb-FRU075.150 sb-FRD075.200 sb-FRU075.200 sb-FRD075.300 sb-FRU075.300	Frame, 150mm Frame, 150mm Frame, 200mm Frame, 200mm Frame, 300mm Frame, 300mm
	FREE END BRACKET	nsb-FEB075E sb-FEB/WH075	Free End bracket of nsb075E Steel washer for end bracket
	DIVIDER	sb-DV075/M sb-DV075/S sb-DV075/R sb-DV075/T sb-DV075/TP	Normal divider To fix separstors at the both side section Roller divider to reduce friction with cables, Clean room type T divider T divider pin
	SEPARATOR	sb-SP/400.Frame SP-PIN075	Separator, 400mm Separator pin to fix
	TIE WRAP	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	Tie wrap for end bracket to fix cables, 50mm Tie wrap for end bracket to fix cables, 75mm Tie wrap for end bracket to fix cables, 100mm Tie wrap for end bracket to fix cables, 125mm Tie wrap for end bracket to fix cables, 150mm
	SYSTEM TIE WRAP	sb-DV075/W S-TW.EB075	Divider for fixing cables at end bracket System tie wrap to arrange for cables right after moving bracket or fixing bracket

nsb028E

Sabin Chain®



Hinge hook type



Steel Plate

FEB can be fully enclosed by inserting Steel Plate like in the image.
(Steel Plate can be ordered separately,
ST044/055/072/095/120E
also applicable

Free End Bracket

Other Length Restrictions

Vertical Upper(Max)	= 2.0m
Vertical Below(Max)	= 40.0m
Side Mounted Unsupported(Max)	= 1.0m

Caculation of the Chain Length

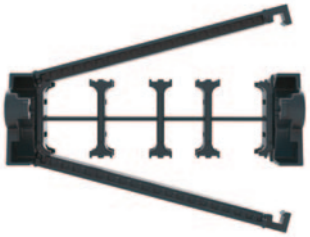
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

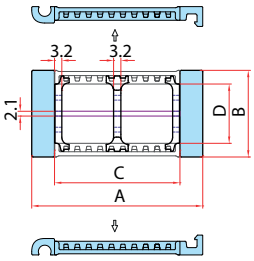
Ordering

nsb 028E. 55. R66/F – 980L : (DV:2)

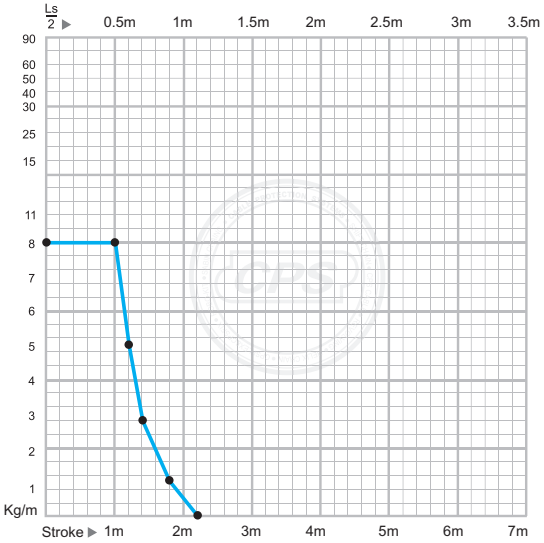
- nsb: Sabin Chain
- 028E: Enclosed Type (E)
- 55: Inside Width
- R66: Bending Radius
- F: Bracket Type
- 980L: Length (mm)
- (DV:2): Quantity of Divider (Link)

Chain Cross Section



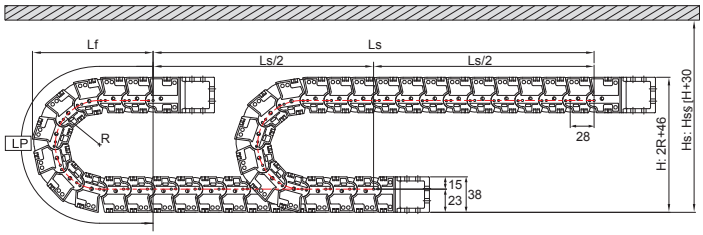


Unsupported Length



Layout of the Chain

Ls: Stroke Hs: Safe Space



Bending Radius(R)	Lp(Loop Length)	LF(Loof Projection)	H(Moving Height)
66	320	145	178
86	383	165	218
116	477	195	278
146	571	225	338

Chain Type	A Width (Outer)	B Height(Outer)	C Frame/Width(Inner)	D Height (Inner)	Weight kg/m
nsb028E	55 75 95 120	38	35 55 75 100	26	1.00 1.13 1.30 1.50

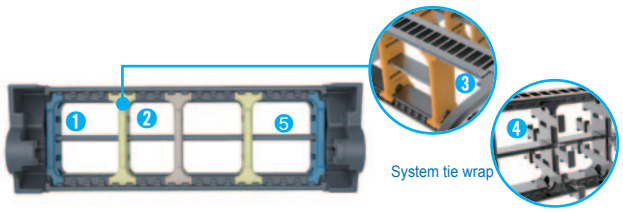
(Dimensions in mm) CP SYSTEM CO.,LTD. www.cpsystem.co.kr

nsb Chain-Enclosed Type

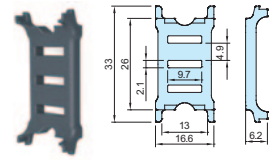
Sabin Chain®

Dividers (DV)

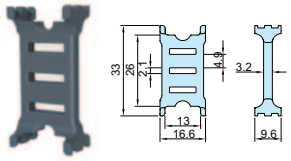
Assembled to every 4th link
DV/T Applied to Frame 125~200
DV/M There are two types: M1 and M2
DV/W
Applicable to System Tie Wrap or FEB



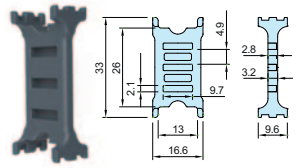
❶ sb-DV028/S



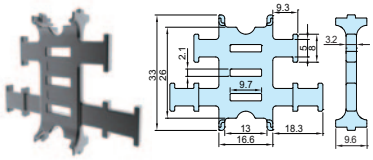
❷ sb-DV028/M1



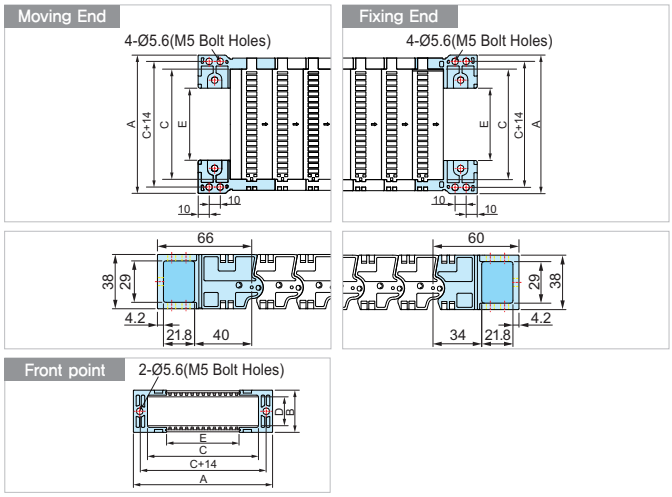
❸ sb-DV028/M2



❹ sb-DV028/W

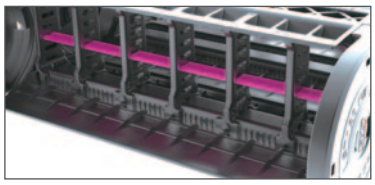


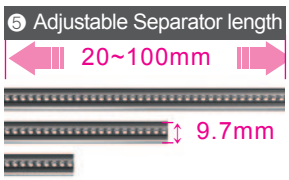
Free End Bracket (FEB)



Chain Type	A Width (Outer)	B Height (Outer)	C Frame Width	D Height (Inner)	E	Hole Type
nsb028E	60.4 80.4 100.4 125.4	38	35 55 75 100	26	0.4 20.4 40.4 65.4	M5 Bolt Holes

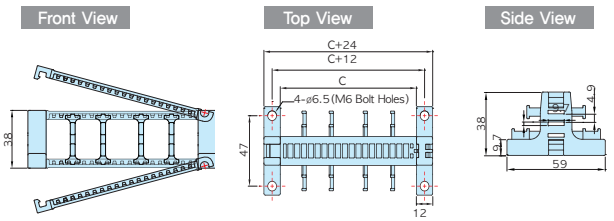
Separators (SP)





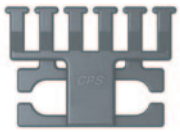
Chain Type	Ordering No.	Frame
nsb028E	S-SP/M.35 S-SP/M.55 S-SP/M.75 S-SP/M.100	35 55 75 100

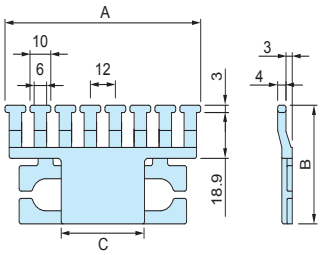
System Tie Wrap (STW)



Chain Type	Ordering No.	C Frame	Hole Type
nsb028E	S-TW.EB028.35 S-TW.EB028.55 S-TW.EB028.75 S-TW.EB028.100	35 55 75 100	M6 Bolt Holes

Tie Wrap (TW)



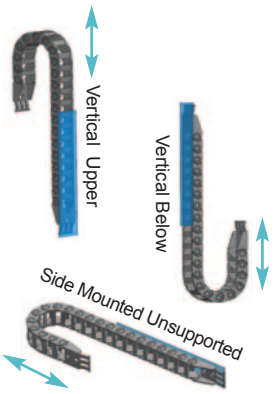


Chain Type	Ordering No.	A	B	C
nsb028E	S-TW036/025CR.35 S-TW036/025CR.55 S-TW036/025CR.75 S-TW036/025CR.100	46 70 94 118	35.4 48.9 48.9 48.9	- 20 40 65

nsb035E

Sabin Chain®

Hinge hook type



Steel Plate

FEB can be fully enclosed by inserting Steel Plate like in the image.
(Steel Plate can be ordered separately, ST044/055/072/095/120E also applicable

Free End Bracket

Other Length Restrictions

Vertical Standing(Max) = 3.0m
Vertical Hanging(Max) = 50.0m
Side Mounted Unsupported(Max) = 1.0m

Caculation of the Chain Length

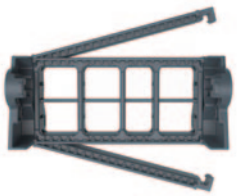
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

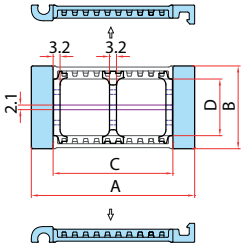
Ordering

nsb 035E. 100. R115/F – 1120L : (DV:2)

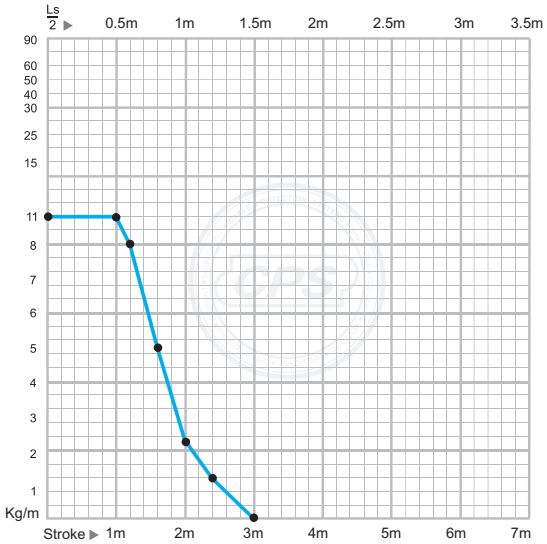
- nsb: Sabin Chain
- 035E: Enclosed Type (E)
- 100: Inside Width
- R115/F: Bending Radius, Bracket Type
- 1120L: Length (mm)
- (DV:2): Quantity of Divider (Link)

Chain Cross Section



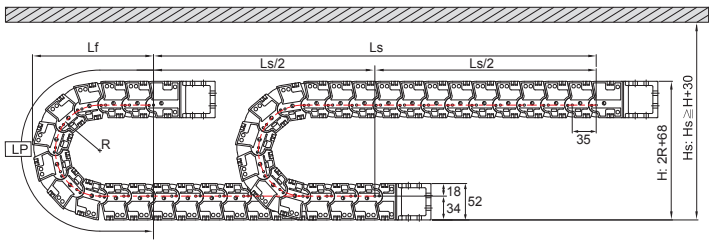


Unsupported Length



Layout of the Chain

Ls: Stroke Hs: Safe Space



Bending Radius(R)	Lp(Loop Length)	LF(Loof Projection)	H(Moving Height)
90	423	194	248
115	502	219	298
140	580	244	348
190	737	294	448

Chain Type	A Width (Outer)	B Height(Outer)	C Frame/Width(Inner)	D Height (Inner)	Weight kg/m
nsb035E	70 95 120 145 170	52	50 75 100 125 150	40	1.45 1.64 1.83 2.06 2.28

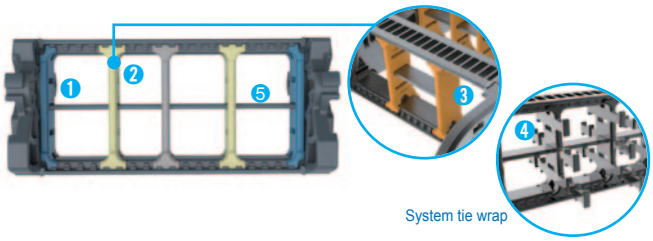
(Dimensions in mm) CP SYSTEM CO.,LTD. www.cpsystem.co.kr

nsb Chain-Enclosed Type

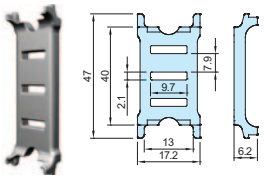
Sabin Chain®

Dividers (DV)

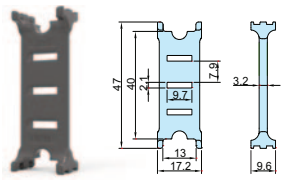
Assembled to every 4th link
DV/T Applied to Frame 125~200
DV/M There are two types: M1 and M2
DV/W
Tie wrap divider for free end bracket(FEB)



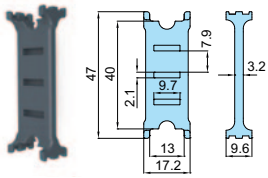
❶ sb-DV035/S



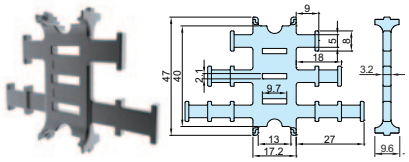
❷ sb-DV035/M1



❸ sb-DV035/M2

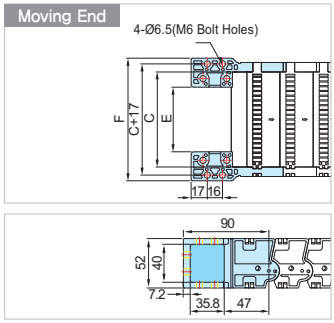


❹ sb-DV035/W

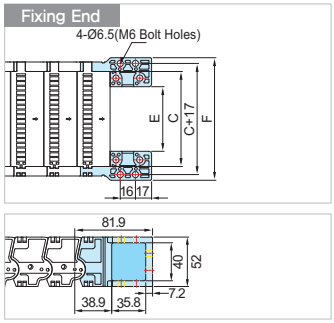


Free End Bracket (FEB)

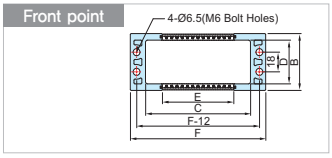
Moving End



Fixing End

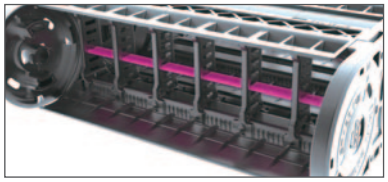


Front point

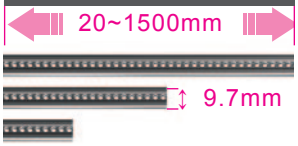


Chain Type	F Width (Outer)	B Height (Outer)	C Frame Width	D Height (Inner)	E EB internal width	Hole Type
nsb035E	79 104 129 154 179	52	50 75 100 125 150	40	18 43 68 93 118	M6 Bolt Holes

Separators (SP)



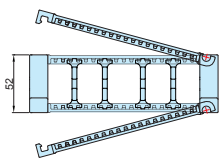
❺ Adjustable Separator length



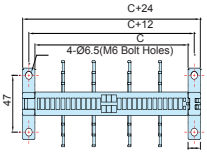
Chain Type	Ordering No.	Frame
nsb035E	S-SP/M.50 S-SP/M.75 S-SP/M.100 S-SP/M.125 S-SP/M.150	50 75 100 125 150

System Tie Wrap (STW)

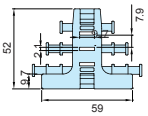
Front View



Top View

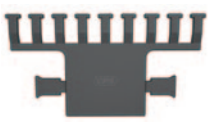


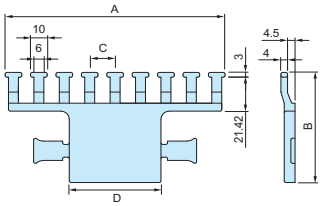
Side View



Chain Type	Ordering No.	C Frame	Hole Type
nsb035E	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

Tie Wrap (TW)

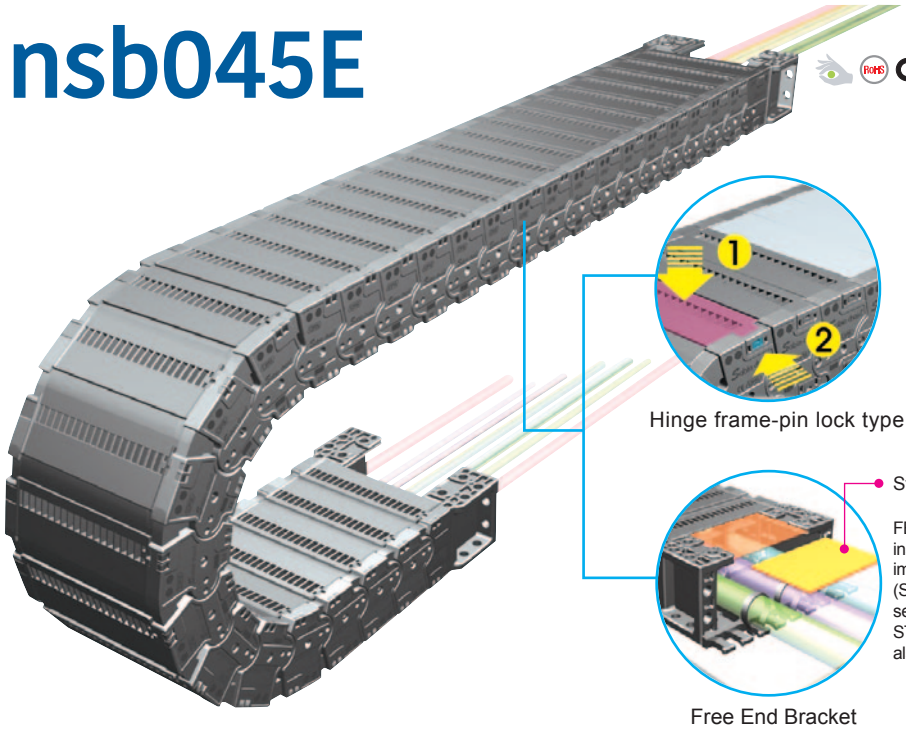




Chain Type	Ordering No.	A	B	C	D
nsb035E	S-TW050/035N.50 S-TW050/035N.75 S-TW050/035N.100 S-TW050/035N.125 S-TW050/035N.150	82 107 132 157 182	64.5	12.00 12.13 15.25 14.70 14.35	5 30 55 80 105

nsb045E

Sabin Chain®

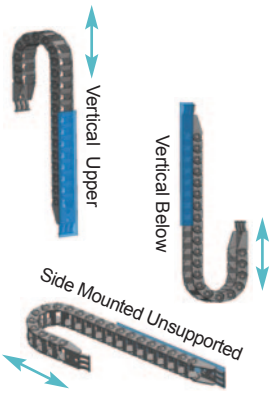


Hinge frame-pin lock type

Steel Plate

FEB can be fully enclosed by inserting Steel Plate like in the image.
(Steel Plate can be ordered separately,
ST044/055/072/095/120E
also applicable

Free End Bracket



Other Length Restrictions

Vertical Standing(Max) = 6.0m
Vertical Hanging(Max) = 100.0m
Side Mounted Unsupported(Max) = 2.5m

Caculation of the Chain Length

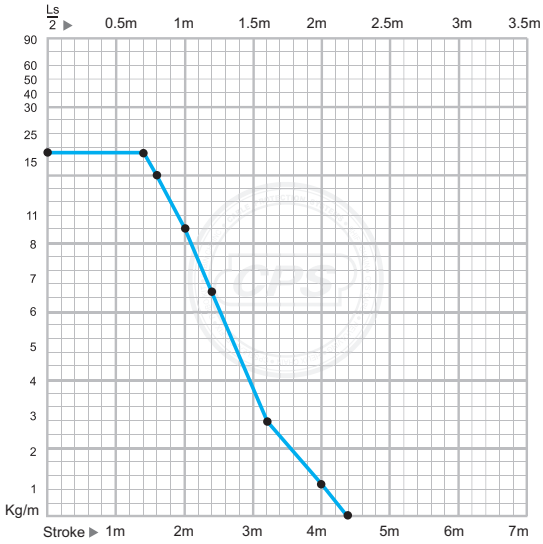
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

Ordering

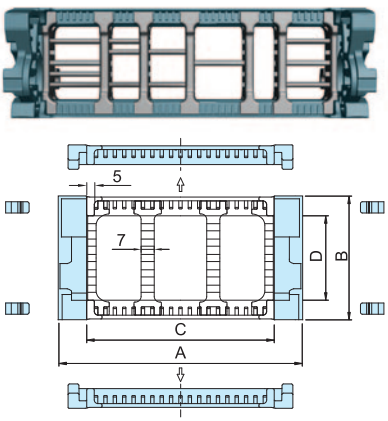
nsb 045E. 100. R110/F−1125L:(DV:2)

- nsb: Sabin Chain
- 045E: Enclosed Type (E)
- 100: Inside Width
- R110/F: Bending Radius, Bracket Type
- 1125L: Length (mm)
- (DV:2): Quantity of Divider (Link)

Unsupported Length

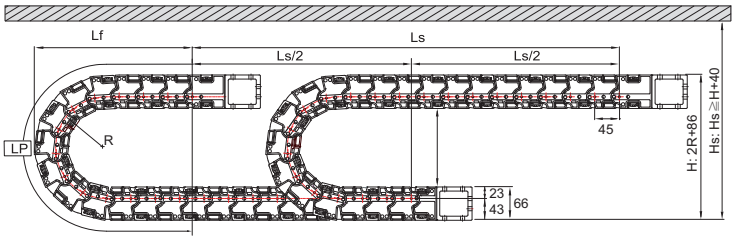


Chain Cross Section



Layout of the Chain

Ls: Stroke Hs: Safe Space



Bending Radius(R)	Lp(Loop Length)	LF(Loof Projection)	H(Moving Height)
90	553	272	266
110	616	292	306
135	694	317	356
165	789	347	416
185	851	367	456
235	1008	417	556
285	1165	467	656

Chain Type	A Width (Outer)	B Height(Outer)	C Frame/Width(Inner)	D Height (Inner)	Weight kg/m
nsb045E	105 130 155 180	66	75 100 125 150	45	2.78 3.07 3.35 3.58

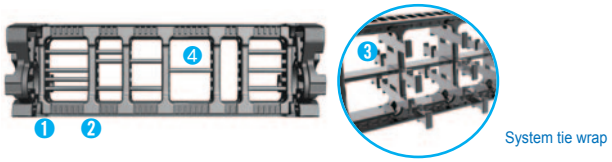
(Dimensions in mm) CP SYSTEM CO.,LTD. www.cpsystem.co.kr

nsb Chain-Enclosed Type

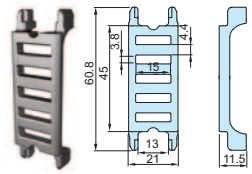
Sabin Chain®

Dividers (DV)

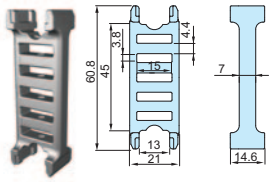
Assembled to every 4th link
DV/W Applicable to System Tie Wrap or FEB



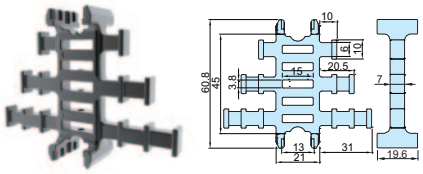
❶ sb-DV045/S



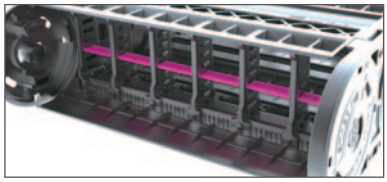
❷ sb-DV045/M



❸ sb-DV045/W



Separators (SP)



❹ Adjustable Separator length

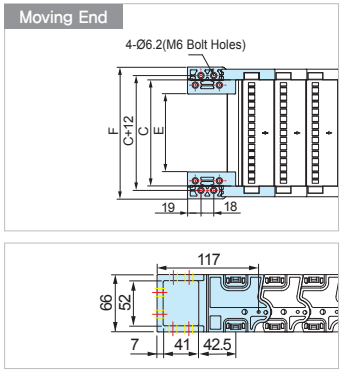
20~150mm

15mm

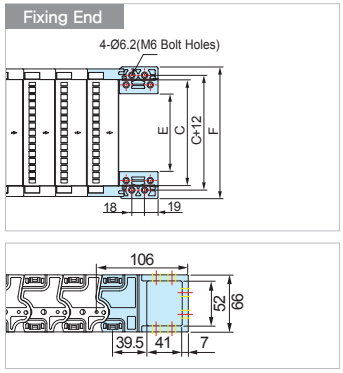
Chain Type	Ordering No.
nsb045E	sb-SP/400.Frame

Free End Bracket (FEB)

Moving End

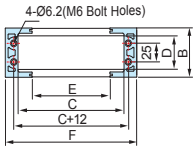


Fixing End



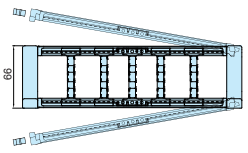
Chain Type	F Width (Outer)	B Height (Outer)	C Frame Width	D Height (Inner)	E EB internal width	Hole Type
nsb 045E	111 136 161 186	66	75 100 125 150	45	35 60 85 110	M6 Bolt Holes

Front point

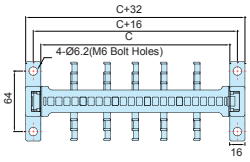


System Tie Wrap (STW)

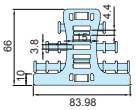
Front View



Top View

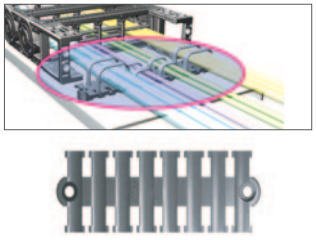


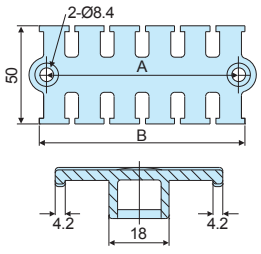
Side View



Chain Type	Ordering No.	C Frame	Hole Type
nsb045E	S-TW.EB045.75 S-TW.EB045.100 S-TW.EB045.125 S-TW.EB045.150	75 100 125 150	M6 Bolt Holes

Tie Wrap (TW)

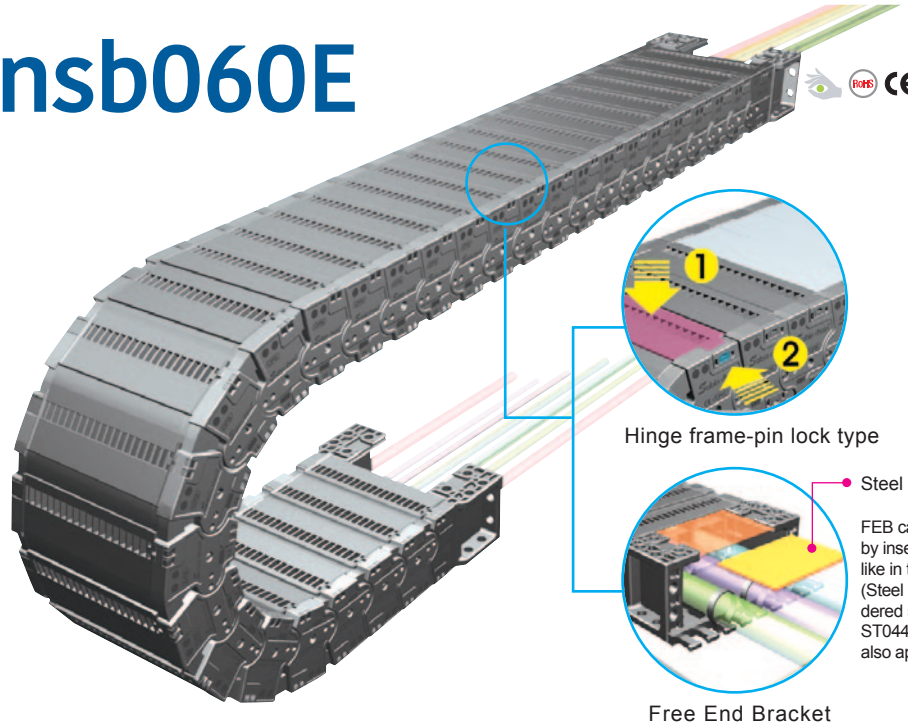




Chain Type	Ordering No.	A	B
nsb045E	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

nsb060E

Sabin Chain®

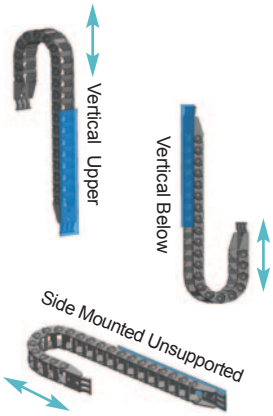


Hinge frame-pin lock type

Steel Plate

FEB can be fully enclosed by inserting Steel Plate like in the image.
(Steel Plate can be ordered separately, ST044/055/072/095/120E also applicable

Free End Bracket



Other Length Restrictions

Vertical Standing(Max) = 6.0m
Vertical Hanging(Max) = 100.0m
Side Mounted Unsupported(Max) = 3.0m

Caculation of the Chain Length

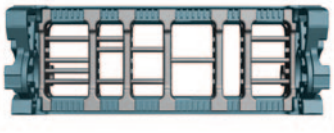
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

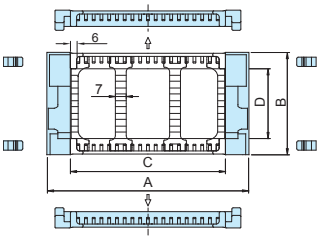
Ordering

nsb 060E. 100. R125/F – 1200L : (DV:2)

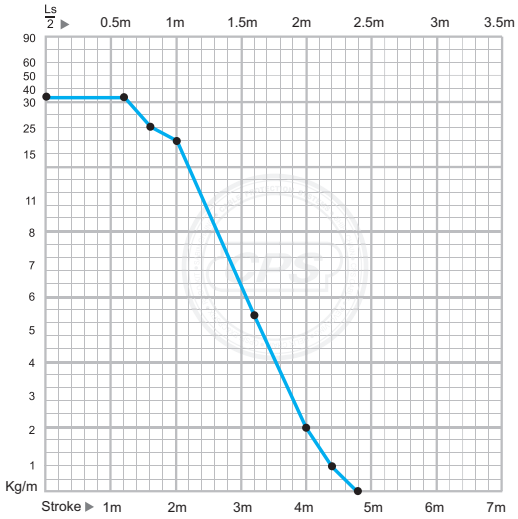
- nsb: Sabin Chain
- 060E: Enclosed Type (E)
- 100: Inside Width
- R125/F: Bending Radius, Bracket Type
- 1200L: Length (mm)
- (DV:2): Quantity of Divider (Link)

Chain Cross Section



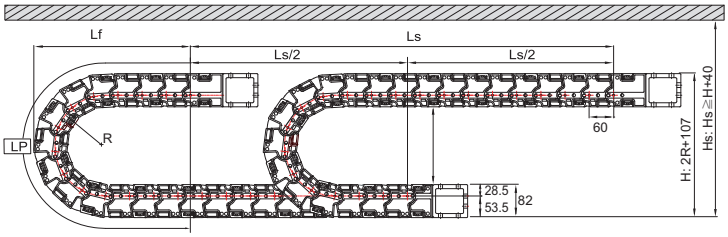


Unsupported Length



Layout of the Chain

Ls: Stroke Hs: Safe Space



Bending Radius(R)	Lp(Loop Length)	LF(Loof Projection)	H(Moving Height)
125	753	359	357
135	784	369	377
150	831	384	407
180	926	414	467
230	1083	464	567
270	1208	504	647
340	1427	574	787

Chain Type	A Width (Outer)	B Height(Outer)	C Frame/Width(Inner)	D Height (Inner)	Weight kg/m
nsb060E	140 190 240	82	100 150 200	56	4.32 4.86 5.41

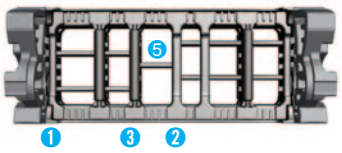
(Dimensions in mm) CP SYSTEM CO.,LTD. www.cpsystem.co.kr

nsb Chain-Enclosed Type

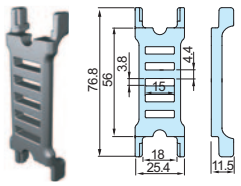
Sabin Chain®

Dividers (DV)

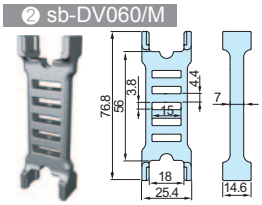
Assembled to every 4th link
DV/W Applicable to System Tie Wrap or FEB



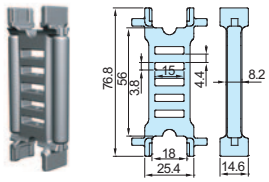
① sb-DV060/S



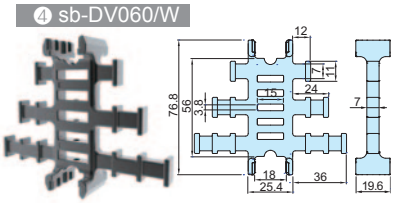
② sb-DV060/M



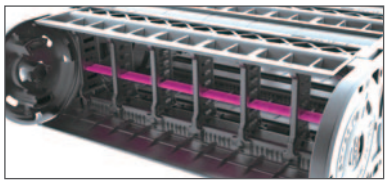
③ sb-DV060/R



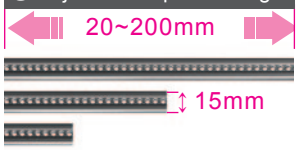
④ sb-DV060/W



Separators (SP)



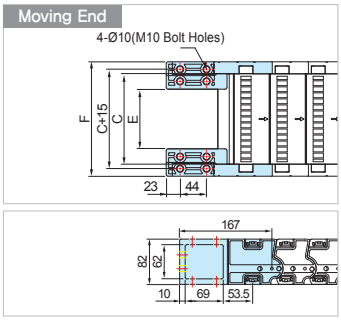
⑥ Adjustable Separator length



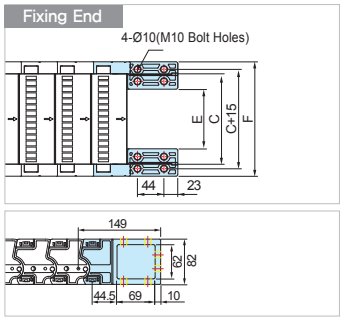
Chain Type	Ordering No.
nsb060E	sb-SP/400.Frame

Free End Bracket (FEB)

Moving End

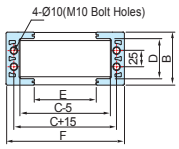


Fixing End



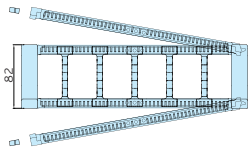
Chain Type	F Width (Outer)	B Height (Outer)	C Frame Width	D Height (Inner)	E EB internal width	Hole Type
nsb060E	140 190 240	82	100 150 200	55	49 99 149	M10 Bolt Holes

Front point

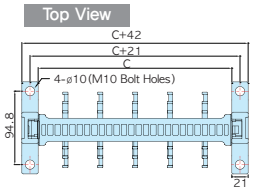


System Tie Wrap (STW)

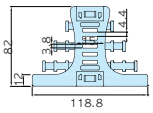
Front View



Top View

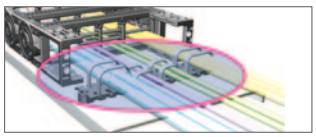


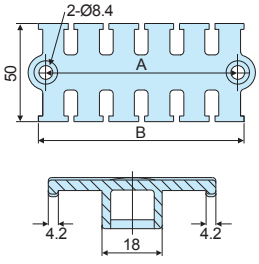
Side View



Chain Type	Ordering No.	C Frame	Hole Type
nsb060E	S-TW.EB060.100 S-TW.EB060.150 S-TW.EB060.200	100 150 200	M10 Bolt Holes

Tie Wrap (TW)

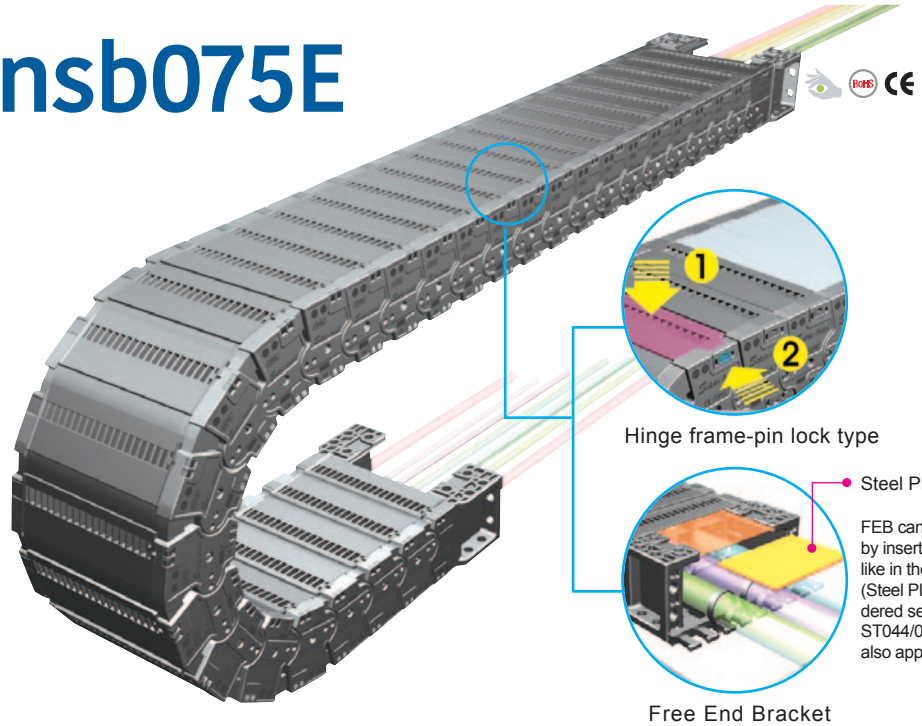




Chain Type	Ordering No.	A	B
nsb060E	S-TW50 S-TW75 S-TW100 S-TW125 S-TW150	58 75 98 122 141	65 82 105 129 148

nsb075E

Sabin Chain®

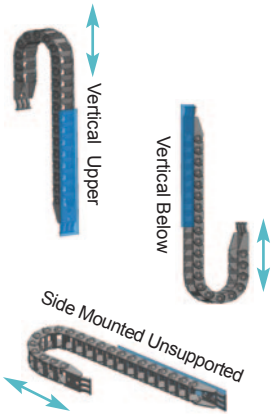


Hinge frame-pin lock type

Steel Plate

FEB can be fully enclosed by inserting Steel Plate like in the image.
(Steel Plate can be ordered separately, ST044/055/072/095/120E also applicable

Free End Bracket



Other Length Restrictions

Vertical Standing(Max)	= 6.0m
Vertical Hanging(Max)	= 120.0m
Side Mounted Unsupported(Max)	= 3.0m

Caculation of the Chain Length

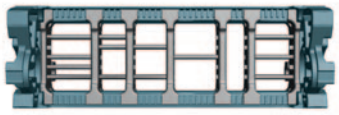
$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

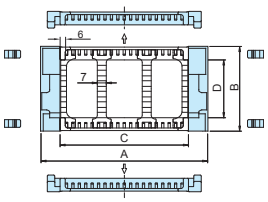
Ordering

nsb 075E. 150. R160/F – 1200L : (DV:2)

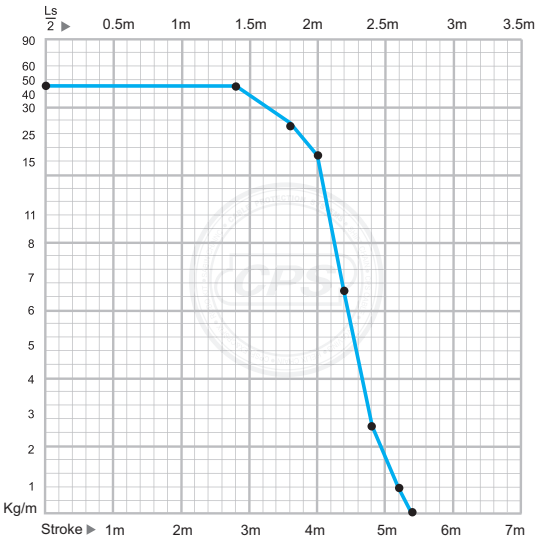
- nsb: Sabin Chain
- 075E: Enclosed Type (E)
- 150: Inside Width
- R160/F: Bending Radius, Bracket Type
- 1200L: Length (mm)
- (DV:2): Quantity of Divider (Link)

Chain Cross Section



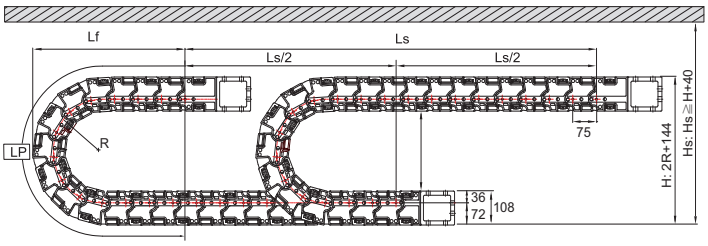


Unsupported Length



Layout of the Chain

Ls: Stroke Hs: Safe Space



Bending Radius(R)	Lp(Loop Length)	LF(Loof Projection)	H(Moving Height)
160	953	457	464
180	1016	477	504
230	1172	527	604
280	1329	577	704
330	1487	627	804
380	1644	677	904
480	1958	777	1,104

Chain Type	A Width (Outer)	B Height(Outer)	C Frame/Width(Inner)	D Height (Inner)	Weight kg/m
nsb075E	190 240 340	108	150 200 300	78	7.01 7.97 9.48

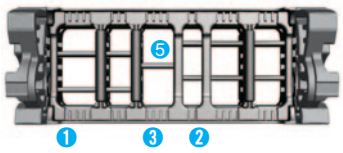
(Dimensions in mm) CP SYSTEM CO.,LTD. www.cpsystem.co.kr

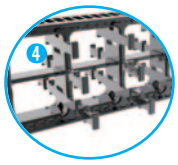
nsb Chain-Enclosed Type

Sabin Chain®

Dividers (DV)

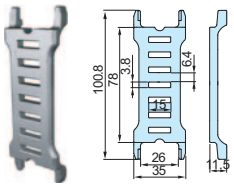
Assembled to every 4th link
DV/W Applicable to System Tie Wrap or FEB



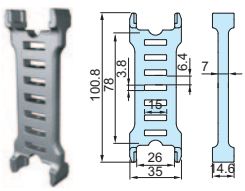


System tie wrap

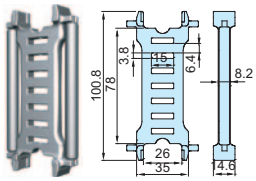
① sb-DV075/S



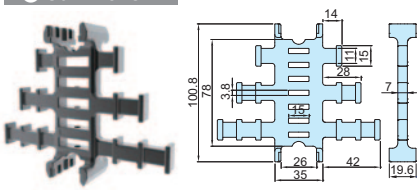
② sb-DV075/M



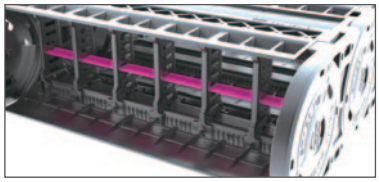
③ sb-DV075/R

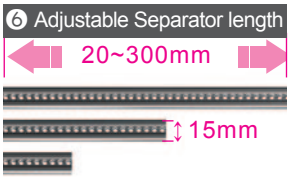


④ sb-DV075/W



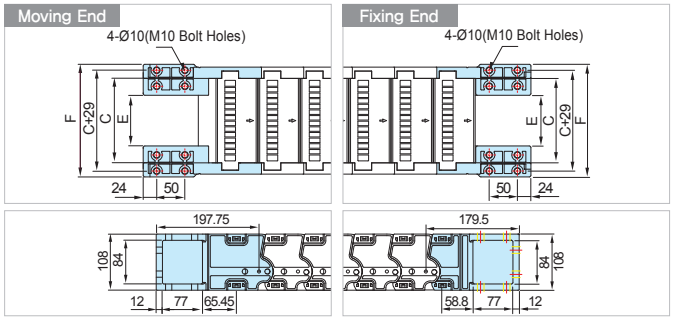
Separators (SP)





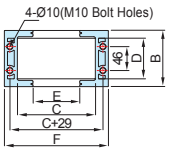
Chain Type	Ordering No.
nsb075E	sb-SP/400.Frame

Free End Bracket(FEB)



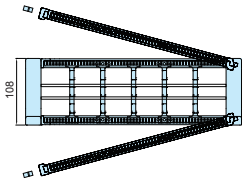
Chain Type	F Width (Outer)	B Height(Outer)	C Frame Width	D Height(Inner)	E EB internal width	Hole Type
nsb 075E	200 250 350	108	150 200 300	78	90 140 240	M10 Bolt Holes

Front point

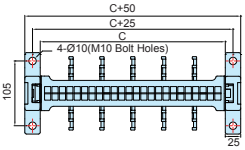


System Tie Wrap (STW)

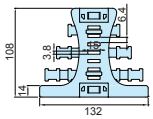
Front View



Top View

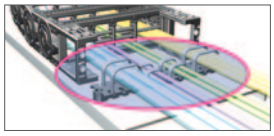


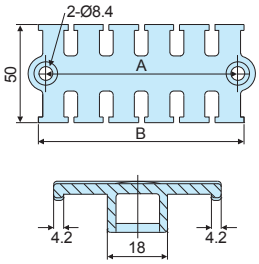
Side View



Chain Type	Ordering No.	C Frame	Hole Type
nsb075E	S-TW.EB075.150 S-TW.EB075.200 S-TW.EB075.300	150 200 300	M10 Bolt Holes

Tie Wrap (TW)





Chain Type	Ordering No.	A	B
nsb075E	S-TW50	58	65
	S-TW75	75	82
	S-TW100	98	105
	S-TW125	122	129
	S-TW150	141	148