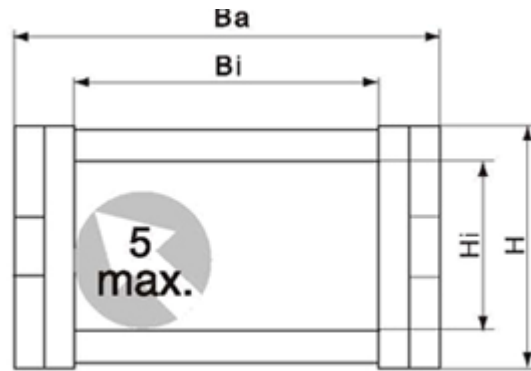


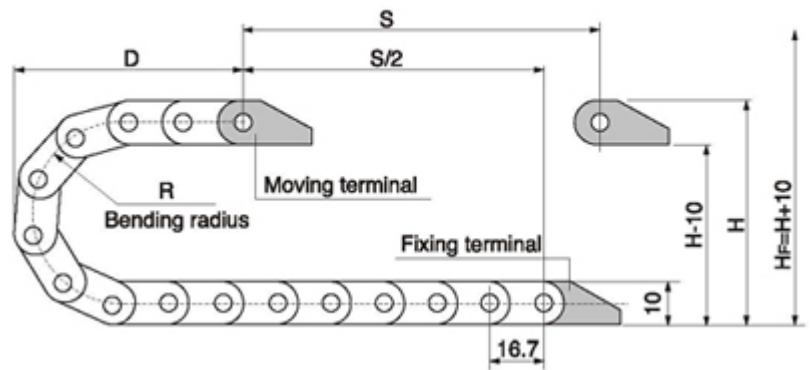
MINIATURE SERIES 7-NON OPENING TYPE

■ Delineaton



■ Basuc technical data

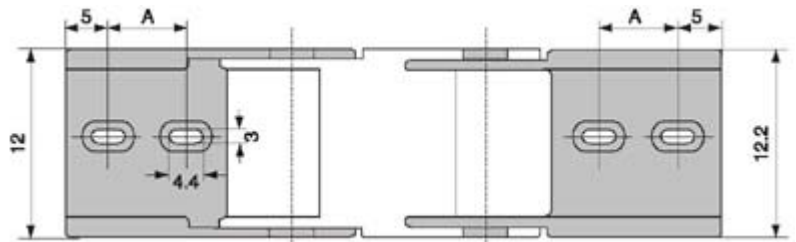
Pitch=16.7mm, link per meter=60, length of chain= $S/2+K$, S=stroke,
 $K=\pi \cdot R$ "safety ratio"



R	18	28	38
H	52	72	92
D	45	55	65
K	100	140	160

Actual mounting height: $H_F = H + 10\text{mm}$ (load 0.1kg/m)

■ Connection mounting dimension drawing



07...B.12PZ

■ Miniatureseries 7-non opening type

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding	Ordering model of connector
7	7	7	10	12.5	18 28 38	B	A=B	07.07.B.12PZ

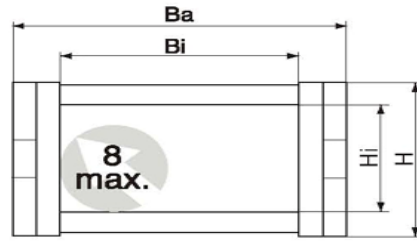
P.C: Hi=Iner height, Bi=Iner width, H=Outer heigh, Ba=Otuer width

Note: The opening way B indicates non opening type

Model of connector: 07...B.12PZ=U type bevel connector complete set; 07...B.1PZ=one terminal with hole; 07...B.2PZ=one telminal with pin

INIATURE SERIES 10-NON OPENING TYPE

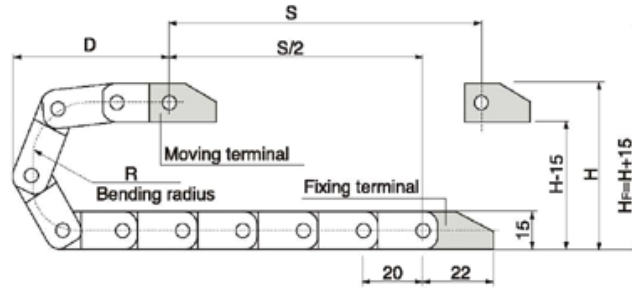
■ Delineaton



■ Basuc technical data

Pitch=20mm, link per meter=50, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"

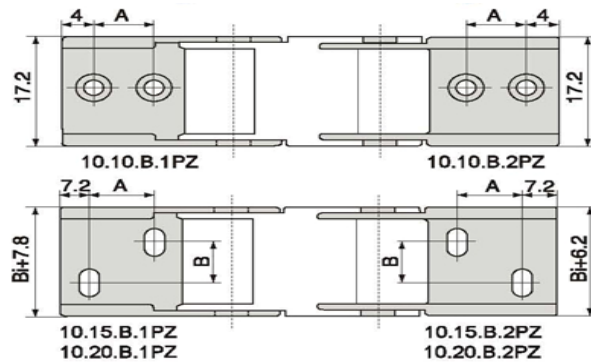
Note: Thereinto, 10×10tow chain, H=14mm, pitch=15mm, link per meter=66



R	18	28	38
H	52	72	92
D	45	55	65
K	100	140	160

Actual mounting height: $H_F = H + 150\text{mm}$ (load 0.2kg/m)

■ Connection mounting dimension drawing



■ Miniatureseries 7-non opening type

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
10	10	6	13.5	13.5	18 28 38	F	A=8	10.06.F.12PZ
10	10	10	14	17.5		B	A=8	10.10.B.12PZ
10	10	15	15.5	23		B	A=10 B=0	10.15.B.12PZ
10	10	20	15.5	28.5		B	A=10 B=5	10.20.B.12PZ

P.C: Hi=Iner height, Bi=Iner width, H=Outer heigh, Ba=Otuer width

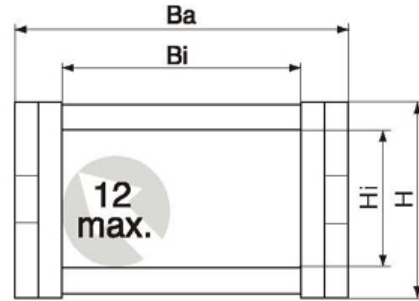
Note: The opening way B indicates non opening type, F is the convenient type, the cable can be assembled and sisassembled directly needless to open. Model of connector: 10...B.12PZ=U type bevel connector complete set; 10...B.1PZ=one terminal with hole; 10...B.2PZ=one telminal with pin



10...B.12PZ

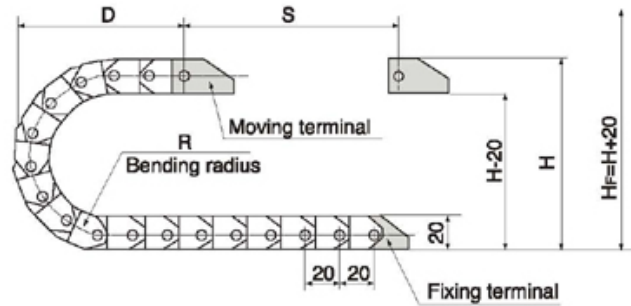
SERIES 15-NON OPENING TYPE

■ Delineaton



■ Basic technical data

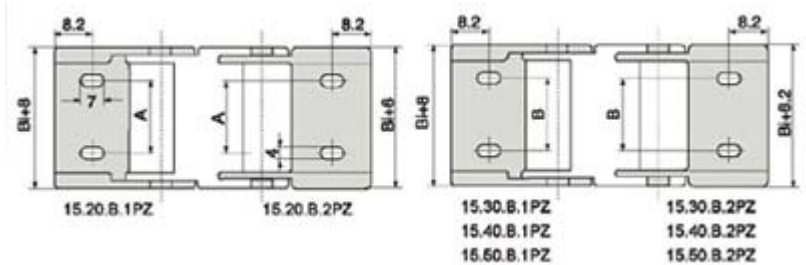
Pitch=20mm, link per meter=50, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	28	38	48
H	76	96	116
D	60	70	80
K	130	160	190

Actual mounting height: $H_f = H + 20\text{mm}$ (load 0.3kg/m)

■ Connection mounting dimension drawing



15...B.12PZ

■ Miniatureseries 15-non opening type

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
15	15	20	20	28.2	18 28 38	B	A=11	15.20.B.12PZ
15	15	30	20	38.2		B	A=14	15.30.B.12PZ
15	15	40	20	48.2		B	B=20	15.40.B.12PZ
15	15	50	20	58.2		B	B=20	15.50.B.12PZ

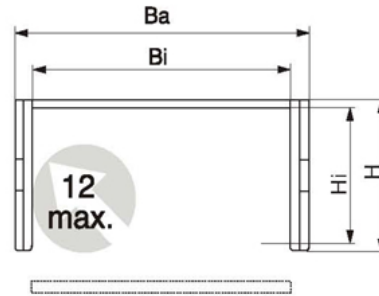
P.C: Hi=Inner height, Bi=Inner width, H=Outer height, Ba=Outer width

Note: The opening way B indicates non opening type,

Model of connector: 15...B.12PZ=U type bevel connector complete set; 15...B.1PZ=one terminal with hole; 15...B.2PZ=one terminal with pin

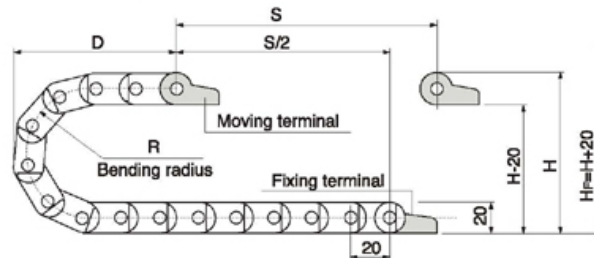
SERIES 15 SEMI-ENCLOSED INTERIOR OPENING

■ Delineaton



■ Basuc technical data

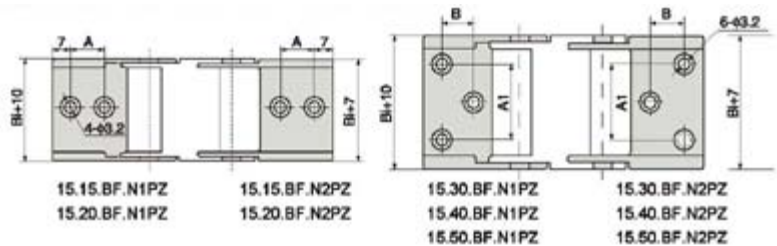
Pitch=20mm, link per meter=50, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R+$ "safety ratio"



R	28	38	48
H	76	96	116
D	60	70	80
K	130	160	190

Actual mounting height: $H_F = H + 20\text{mm}$ (load 0.3kg/m)

■ Connection mounting dimension drawing



15...B.12PZ

■ Miniatureseries 15-non opening type

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
15	15	15	20	23	28 38 48	BF.N	A=8	15.15.BF.N.12PZ
15	15	20	20	29		BF.N	A=8	15.20.BF.N.12PZ
15	15	30	20	39		BF.N	A1=22 B=9.2	15.30.BF.N.12PZ
15	15	40	20	49		BF.N	A1=31.8 B=7.5	15.40.BF.N.12PZ
15	15	50	20	59		BF.N	A1=41.8 B=7.5	15.50.BF.N.12PZ

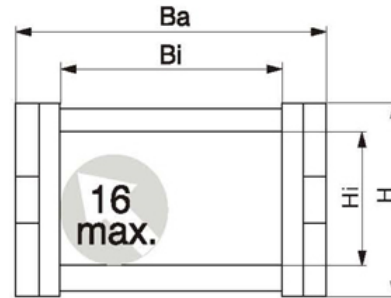
P.C:Hi=Iner height,Bi=Iner width,H=Outer heigh,Ba=Otuer width

Note:The opening way B indicates non opening type,and N indicates the interior opening,BF.N indicates the enclosed interior opening type.

Model of connector:15...B.12PZ=U type bevel connector complete set;15...B.1PZ=one terminal with hole;15...B.2PZ=one telminal with pin

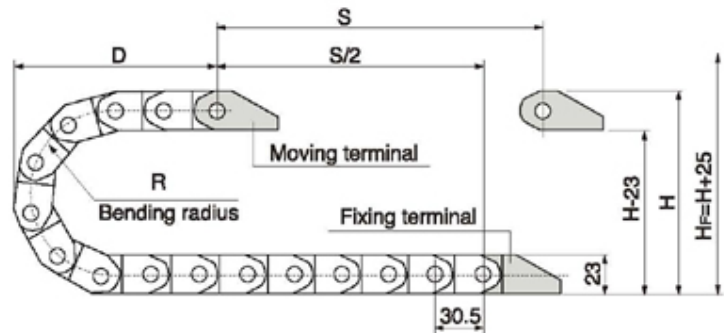
SERIES 18-NON OPENING TYPE

■ Delineaton



■ Basic technical data

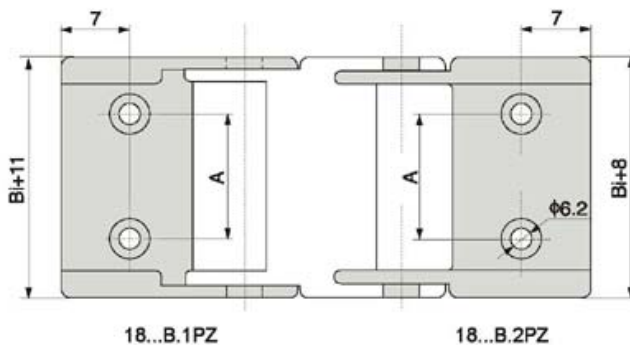
Pitch=30.5mm, link per meter=33, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	28	38	48	75	100
H	80	100	120	175	225
D	70	80	90	120	145
K	150	185	215	300	375

Actual mounting height: $H_F=H+25\text{mm}$ (load 0.5kg/m)

■ Connection mounting dimension drawing



18...B.12PZ

■ Miniatureseries 18-non opening type

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
18	18	25	23	36.5	38 48 75	B	A=14.5	18.25.B.12PZ
18	18	37	23	48.5	100	B	A=14.5	18.37.B.12PZ

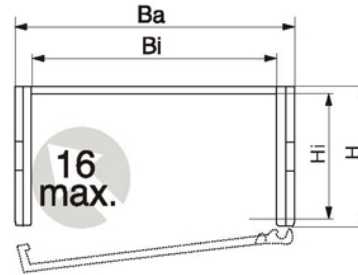
P.C: Hi=Inner height, Bi=Inner width, H=Outer height, Ba=Outer width

Note: The opening way B indicates non opening type

Model of connector: 18...B.12PZ=U type bevel connector complete set; 18...B.1PZ=one terminal with hole; 18...B.2PZ=one terminal with pin

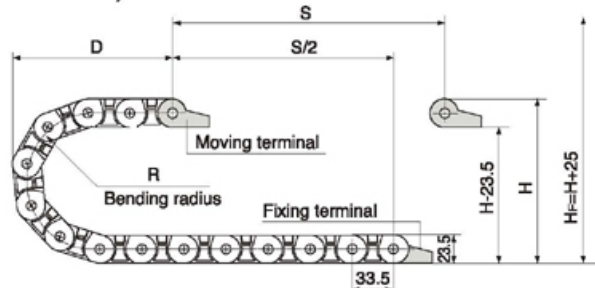
SORIES 18 SEMI-ENCLOSED INTERIOR OPENING

■ Delineaton



■ Basic technical data

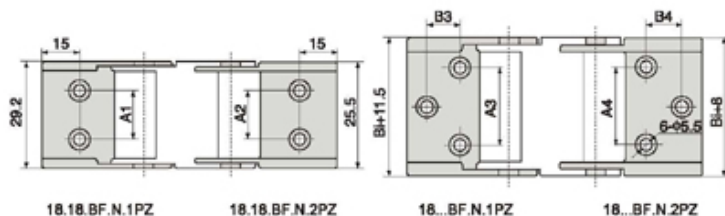
Pitch=33.5mm, link per meter=30, length of chain=S/2+K, S=stroke, K=π.R+ "safety ratio"



R	28	38	48	75	100
H	80	100	120	175	225
D	70	80	90	120	145
K	150	185	215	300	375

Actual mounting height: $H_F = H + 25\text{mm}$ (load 0.5kg/m)

■ Connection mounting dimension drawing



- Opened with the screwdriver
18...BF.N.12PZ

■ Miniatureseries 18-non opening type

Serial no.	Hi	18Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
18	18	18	23.5	28	28 38 48 75 100	BF.N	A1=1.4 A2=9.5	18.18.BF.N.12PZ
18	18	25	23.5	35		BF.N	A3=19.2 B3=10 A4=13.6 B4=10	18.25.BF.N.12PZ
18	18	37	23.5	47		BF.N	A3=29 B3=11 A4=25 B4=11	18.37.BF.N.12PZ
18	18	50	23.5	60		BF.N	A3=34.8 B3=7.5 A4=34.8 B4=7.5	18.50.BF.N.12PZ

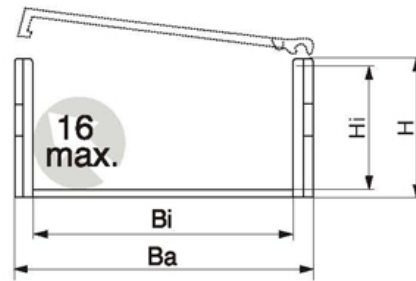
P.C: Hi=Inner height, Bi=Inner width, H=Outer height, Ba=Outer width

Note: The opening way BF indicates the enclosed type and N indicates the interior opening. BF.N indicates the enclosed interior opening type

Model of connector: 18...BF.N.12PZ=U type bevel connector complete set; 18...BF.N.1PZ=one terminal with hole; 18...B.2PZ=one terminal with pin

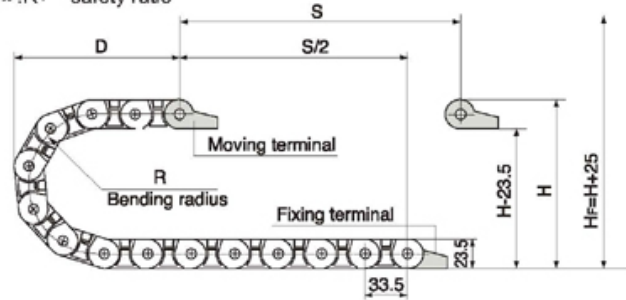
SERIES 18-EXTERIOR OPENING TYPE

■ Delineaton



■ Basuc technical data

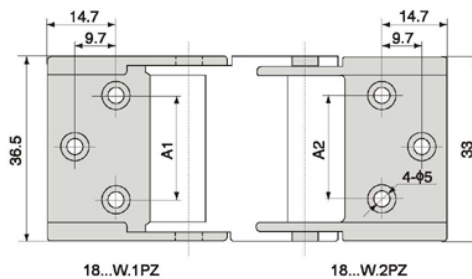
Pitch=33.5mm, link per meter=30, length of chain= $S/2+K$, S =stroke,
 $K = \pi \cdot R + \text{"safety ratio"}$



R	28	38	48	75	100
H	80	100	120	175	225
D	70	80	90	120	145
K	150	185	215	300	375

Actual mounting height: $H_f = H + 25\text{mm}$ (load 0.5kg/m)

■ Connection mounting dimension drawing



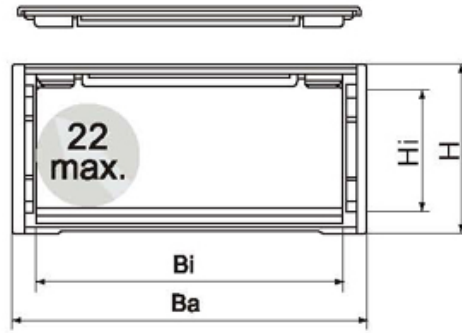
●Opened with the screwdriver 18...W.12PZ

■ Miniatureseries 18-non opening type

Serial no.	Hi	18Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
18	18	25	23.5	38	28 38 48 75 100	W	A1=19.2 A2=13.6	18.25.W.12PZ

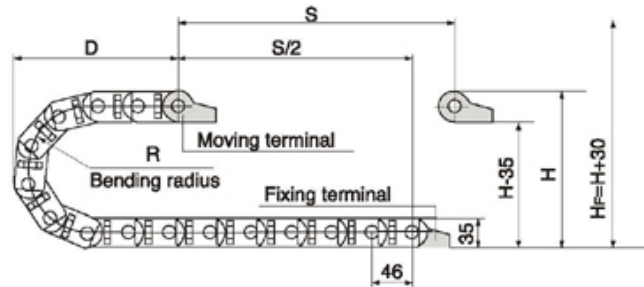
SERIES 25-OPENING ON BOTH SIDES TYPE

■ Delineaton



■ Basic technical data

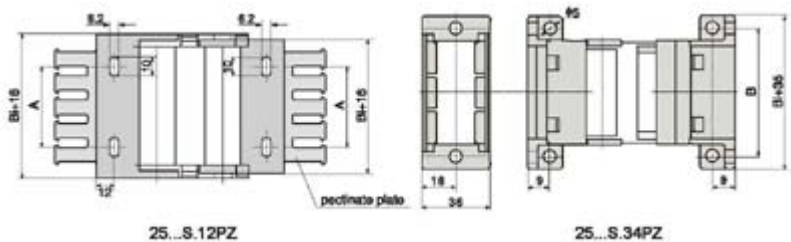
Pitch=46mm, link per meter=22, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	55	75	100	125	150	175	200	250
H	145	185	235	285	335	385	435	535
D	125	150	170	195	220	245	270	320
K	276	346	414	496	578	660	742	920

Actual mounting height: $H_F = H + 30\text{mm}$ (load 1.0kg/m)

■ Connection mounting dimension drawing



25...S.12PZ 25...S.34PZ

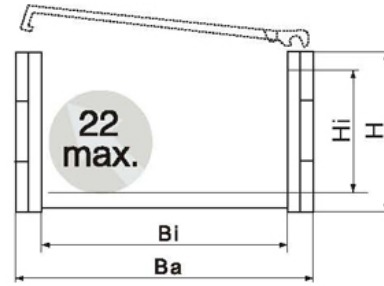
■ Series 25-opening On Both Sides Type

Serial no.	Hi	18Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
25/25F	25	25	25	38	*55 75 100 125 150 175 200 250	S	B=49.6	25...S.34PZ
25/25F	25	38	35	51		S	A=26 B=62.6	25.38.S.12PZ 25...S.34PZ
25/25F	25	57	35	71		S	A=45 B=81.6	25.75.S.12PZ 25...S.34PZ
25/25F	25	77	35	91		S	A=62 B=101.6	25.77S.12PZ 25...S.34PZ

P.C: Hi=Inner height, Bi=Inner width, H=Outer height, Ba=Outer width

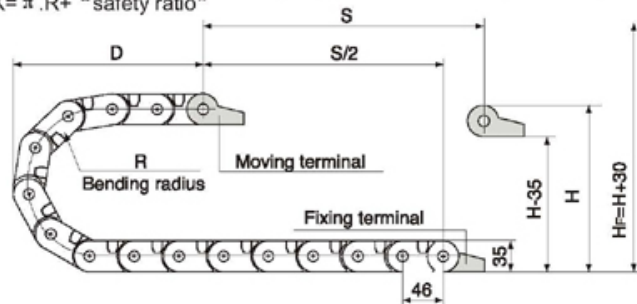
SERIES 25-CONNECTION INTERIOR OPENING

■ Delineaton



■ Basic technical data

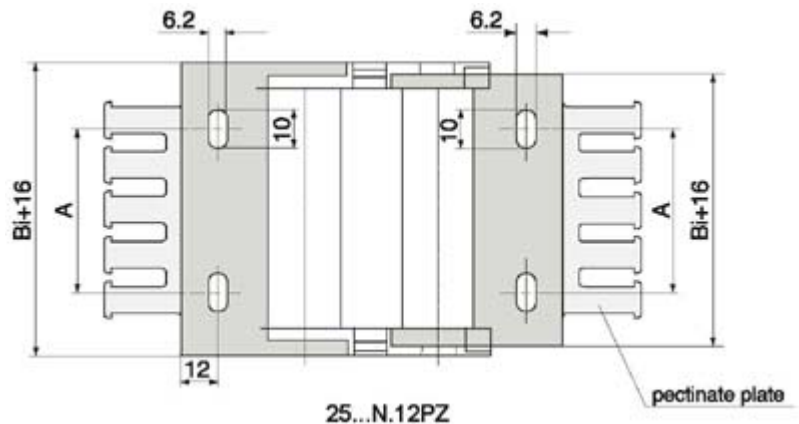
Pitch=46mm, link per meter=22, length of chain= $S/2+K$, S=stroke,
 $K=\pi \cdot R$ + "safety ratio"



R	55	75	100	125	150	175	200	250
H	145	185	235	285	335	385	435	535
D	125	150	170	195	220	245	270	320
K	276	346	414	496	578	660	742	920

Actual mounting height: $H_f = H + 30\text{mm}$ (load 1.0kg/m)

■ Connection mounting dimension drawing



●Seried with the screwdriver 25...N.12PZ

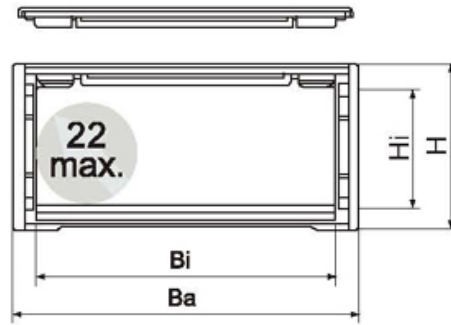
■ Series 25-opening On Both Sides Type

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
25	25	38	35.5	53.5	55 75 100 125 150 175 200 250	N	A=26	25.38.N.12PZ
25	25	*57	35.5	72.5		N	A=45	25.57.N.12PZ
25	25	*77	35.5	92.5		N	A=62	25.77.N.12PZ
25	25	*103	35.5	118.5		N	...	25.103.N.12PZ

P.C: Hi=Iner height, Bi=Iner width, H=Outer heigh, Ba=Otuer width

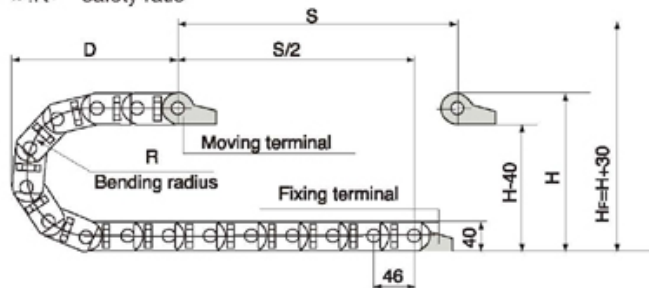
ERIES N25-OPEN ON BOTH SIDES

■ Delineaton



■ Basic technical data

Pitch=46mm, link per meter=22, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"

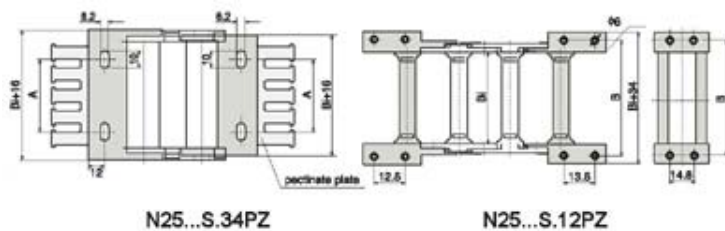


R	55	75	100	125	150	175	200	250
H	150	190	240	290	340	390	440	540
D	125	150	170	195	220	245	270	320
K	276	346	414	496	578	660	742	920

Actual mounting height: $H_F = H + 30\text{mm}$ (load 1.0kg/m)

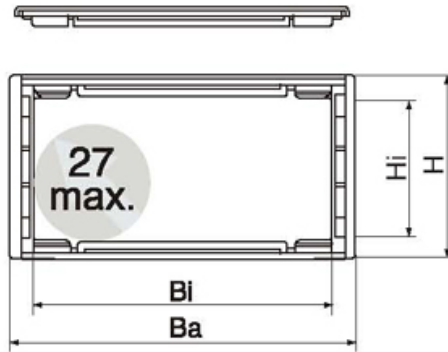
- Seried with the 25...S.12PZ 25...S.34PZ screwdriver

■ Connection mounting dimension drawing



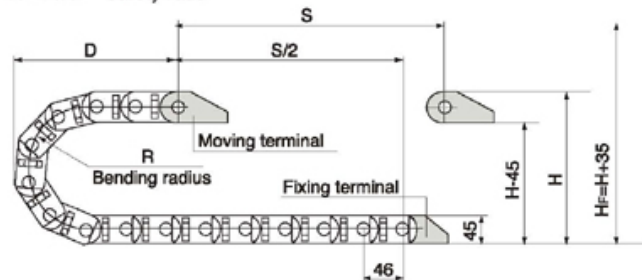
SERIES 30-OPEN ON BOTH SIDES

■ Delineaton



■ Basic technical data

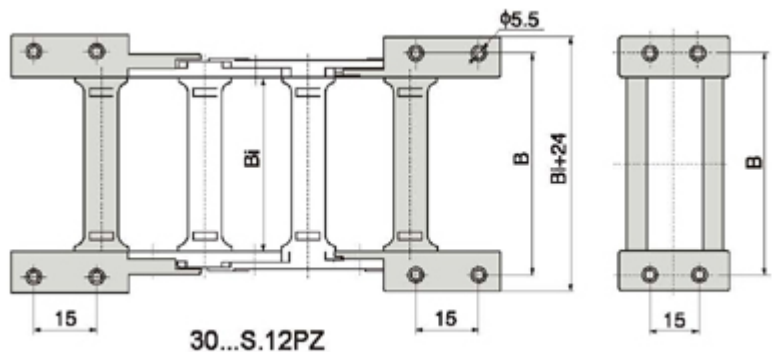
Pitch=46mm, link per meter=22, length of chain= $S/2+K$, S=stroke,
 $K=\pi \cdot R$ "safety ratio"



R	055	075	100	125	150	175	200	250
H	155	195	245	295	345	395	445	545
D	125	145	170	195	220	145	270	320
K	265	330	410	485	565	645	725	880

Actual mounting height: $H_F = H + 35\text{mm}$ (load 1kg/m)

■ Connection mounting dimension drawing



●Opened with the screwdriver 30...S.34PZ

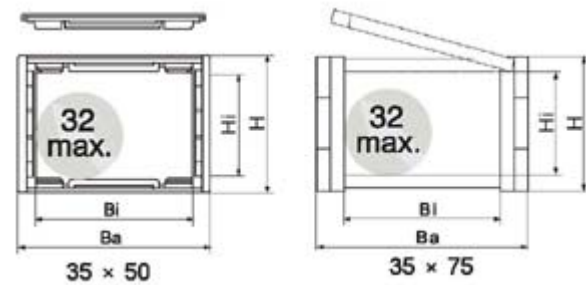
■ Series 30 open On Both Sides

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
30/30F	30	38	45	55	★55 75 100 125 150 175 200 250	S	B=50	30...S.34PZ
30/30F	30	57	45	74		S	B=69	30...S.34PZ
30/30F	30	77	45	94		S	B=89	30...S.34PZ
30/30F	30	103	45	120		S	B=115	30...S.34PZ

P.C: Hi=Inner height, Bi=Inner width, H=Outer heigh, Ba=Otuer width

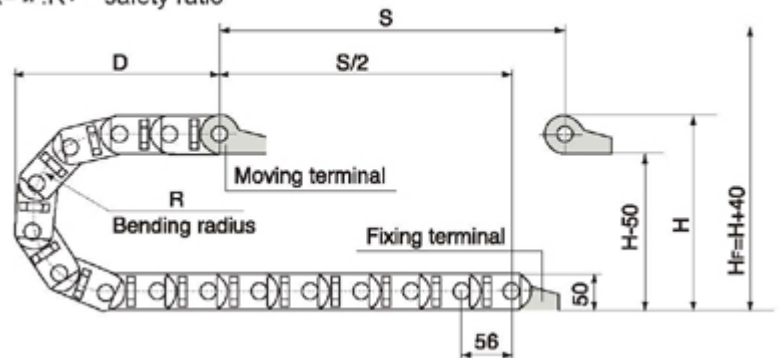
SERIES 35-OPEN ON BOTH SIDES

■ Delineaton



■ Basic technical data

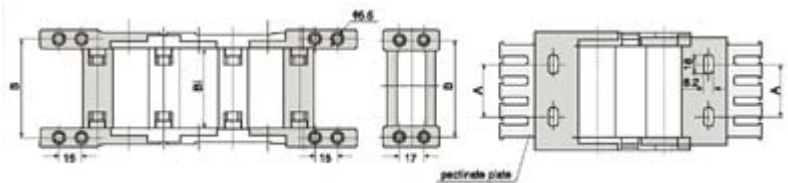
Pitch=56mm, link per meter=18, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	075	100	125	150	200	250
H	200	250	300	350	450	550
D	150	175	200	225	275	325
K	375	475	550	650	825	925

Actual mounting height: $H_F = H + 40\text{mm}$ (load 1.7kg/m)

■ Connection mounting dimension drawing



●Opened with the screwdriver

■ Series 35-open On Both Sides exterior opening

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
35	35	50	50	67	75 100 125 150 200 250	S	A=55	35...S.34PZ
35	35	75	50	92	75	W	B=62	35...W.12PZ

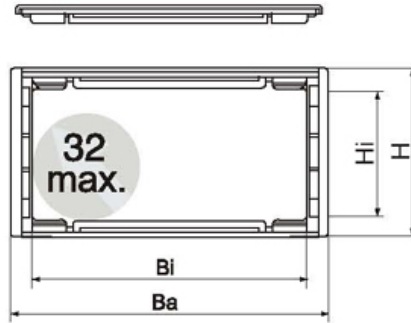
P.C: Hi=Inner height, Bi=Inner width, H=Outer height, Ba=Outer width

Note: opening way S indicates the open on both sides. W indicates the of the exterior opening.

Model of connector: 35.50.S.34PZ=complete set of square connector; 35.50.S.3PZ=one terminal with hole; 35.50.S.4PZ=one terminal with pin 35.75.W.12PZ=U type bevl connector complete set; 35.75.W.1PZ=one terminal with hole; 35.75.W.2PZ=one terminal with pin

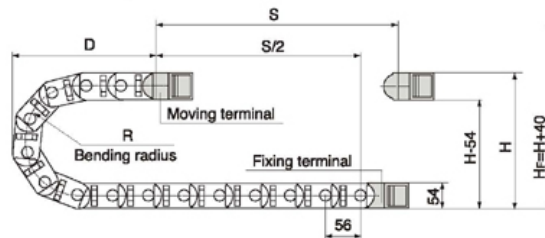
SERIES N35-OPEN ON BOTH SIDES

■ Delineaton



■ Basic technical data

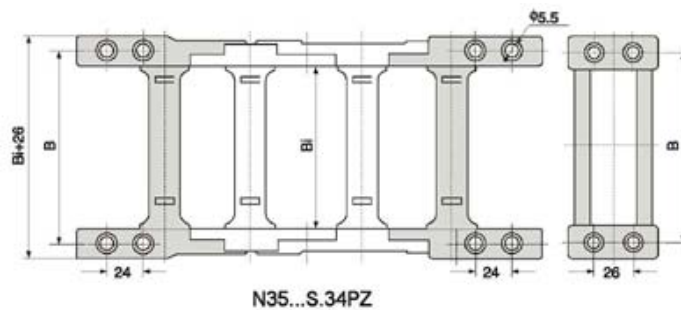
Pitch=56mm, link per meter=18, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	075	100	125	150	200	250
H	200	250	300	350	450	550
D	150	175	200	225	275	325
K	375	475	550	650	825	925

Actual mounting height: $H_f = H + 45\text{mm}$ (load 2.0kg/m)

■ Connection mounting dimension drawing



●Opened with the screwdriver35...S.34PZ

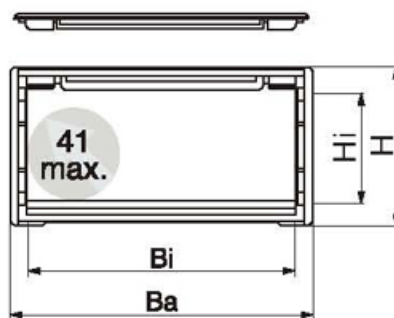
■ Series N35-open On Both Sides

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
N35	35	50	55	70	★75 100 125 150 175 200 250	S	B=64	N35...S.34PZ
N35/N35F	35	75	55	95		S	B=89	N35...S.34PZ
N35/N35F	35	100	55	120		S	B=114	N35...S.34PZ
N35/N35F	35	125	55	145		S	B=139	N35...S.34PZ
N35/N35F	35	150	55	170		S	B=164	N35...S.34PZ
N35	35	175	55	195		S	B=189	N35...S.34PZ

P.C:Hi=Iner height,Bi=Iner width,H=Outer heigh,Ba=Otuer width

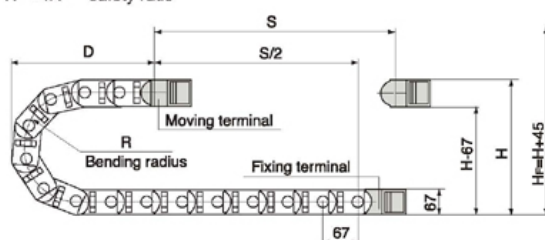
SERIES 45-OPEN ON BOTH SIDES

■ Delineaton



■ Basic technical data

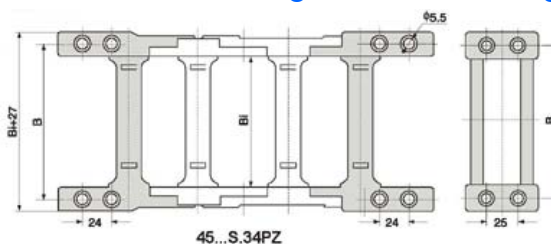
Pitch=67mm, link per meter=15, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	100	125	150	200	225	250	300
H	267	317	367	467	517	567	667
D	200	225	250	300	325	350	400
K	500	650	725	875	975	1050	1224

Actual mounting height: $H_F = H + 45\text{mm}$ (load 2.2kg/m)

■ Connection mounting dimension drawing



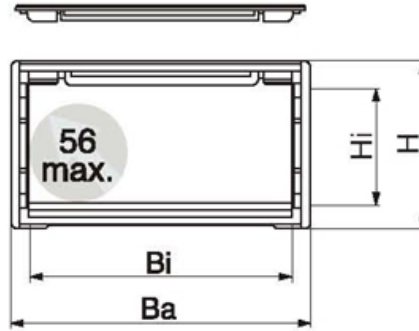
●Opened with the screwdriver 45...S.34PZ

■ Series 45-Open on both sides

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
45	45	50	67	74	★75 100 125 150 175 200 250 300	S	B=64.5	45...S.34PZ
45	45	75	67	99		S	B=90.5	45...S.34PZ
45/45F	45	100	67	124		S	B=115.5	45...S.34PZ
45/45F	45	125	67	149		S	B=140.5	45...S.34PZ
45/45F	45	150	67	174		S	B=165.5	45...S.34PZ
45/45F	45	175	67	199		S	B=190.5	45...S.34PZ
45	45	200	67	224		S	B=215.5	45...S.34PZ

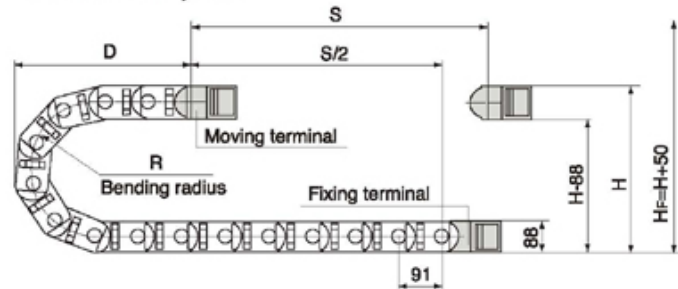
SERIES 60-OPEN ON BOTH SIDES

■ Delineaton



■ Basic technical data

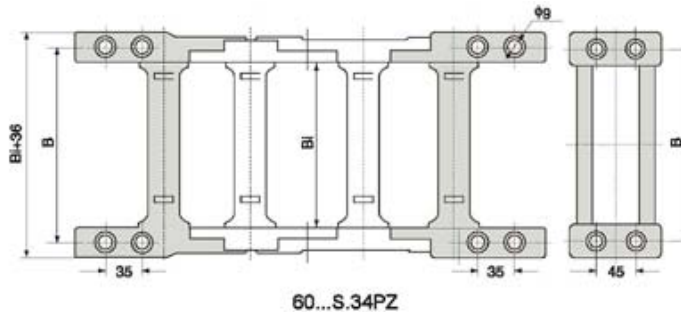
Pitch=91mm, link per meter=11, length of chain= $S/2+K$, S=stroke, $K=\pi \cdot R$ "safety ratio"



R	135	150	175	200	250	300	350	400	500
H	360	388	438	488	588	688	788	888	1088
D	270	285	310	335	385	435	485	535	635
K	650	750	825	900	1020	1225	1340	1450	1775

Actual mounting height: $H_f = H + 50\text{mm}$ (load 3.0kg/m)

■ Connection mounting dimension drawing



●Opened with the screwdriver60...S.34PZ

■ Series 60-Open on both sides

Serial no.	Hi	Bi	H	Ba	Bending radius	Opening way	Corresponding connector hole distance	Ordering model of connector
60	60	75	88	111	135 150 175 200 250 300 350 400 500	S	B=98.5	60...S.34PZ
60	60	100	88	136		S	B=123.5	60...S.34PZ
60	60	150	88	186		S	B=148.5	60...S.34PZ
60	60	200	88	236		S	B=173.5	60...S.34PZ
60	60	300	88	336		S	B=198.5	60...S.34PZ

P.C:Hi=Iner height,Bi=Iner width,H=Outer heigh,Ba=Otuer width

INNER SEPARATING PAR



●Put a shim in any position along the cross section of tow chain, and the shim can be mounted in every link.

●If it is used for the pipe loading with the thick cable or different mediums or many cables are different in diameters, the shim can be used to adjust the space, therefore, the product has the reliable stability.

■ Data of Fivefine tow chain material

Properties		Astm	Unir	Test conditions		Articles
mechanical	Tensile strength at yield	D638	kg/cm ²	1/8" Sample		1178
	Tensile modulus		kg/cm ²			70140
	Tear strength at break		kg/cm ²			1178
	Elongation at break		%			2
	Flexural yield	D790	kg/cm ²	1/8" Sample		1653
	Flexural modulus					69527
	Izod notch impact(machine processing)	D256	kg/cm ²	1/4×1/2×5/2 Sample	23°C -20°C -40°C	5.30 - -
				1/4×1/2×5" Sample	23°C -20°C -40°C	5.33 - -
Thermal	Heat distortion temp	D648	°C	1/4"×1/2"×5/2" Sample	4.6kg/cm ² 186kg/cm ²	- -
	Flammability	UL-94	-	1/8" Sample		-
others	specific gravity	D792	g/cm ³	23°C Brinell		1.36
	Hardness	D2240	D			81.5
	Max water absorption		%			5
	Frictional coefficient		%			0.3
Moldable condition	Erea mould shrinkage	D955	%	23°C Brinell		-
	Cylinder temperature	-	°C	-		-
	Molding pressure	-	-	-		-
	Mold temperature	-	-	-		-

