

Ironcore Linear motor_AFS07 Series

Force

- Peak: 194-540N
- Continuous: 64-180N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



AFS Series Electrical Specification:

Parameters	Unit	AFS07-4	AFS07-5	AFS07-7	AFS07-10
Peak force	N	194	270	388	540
Continuous force	N	64	90	129	180
Peak current	A	9	9	9	9
Continuous current	A	3	3	3	3
Force constant	N/Arms	21.6	30	43.2	60
Back EMF constant	Vpk/m/s	18.7	26.1	37.5	52.2
Max speed	m/s	4	4	4	4
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	5.1	7.1	10.2	14.2
Resistance	omiga	1.0	1.5	2.1	3
Pole pitch	mm	32	32	32	32
Forcer size	mm	68*56*30	68*70*30	68*92*30	68*120*30
Forcer weight	g	614	853	1228	1706
Magnet rail weight	g/mm	3.39	4.72	6.7	9.4

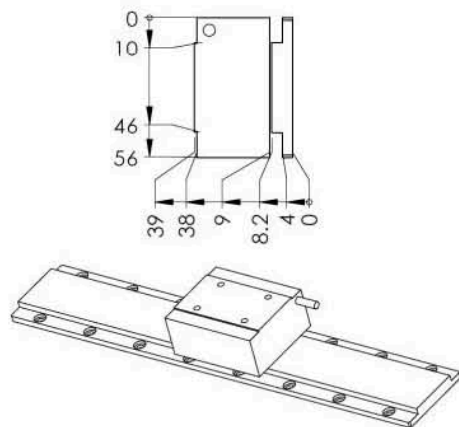
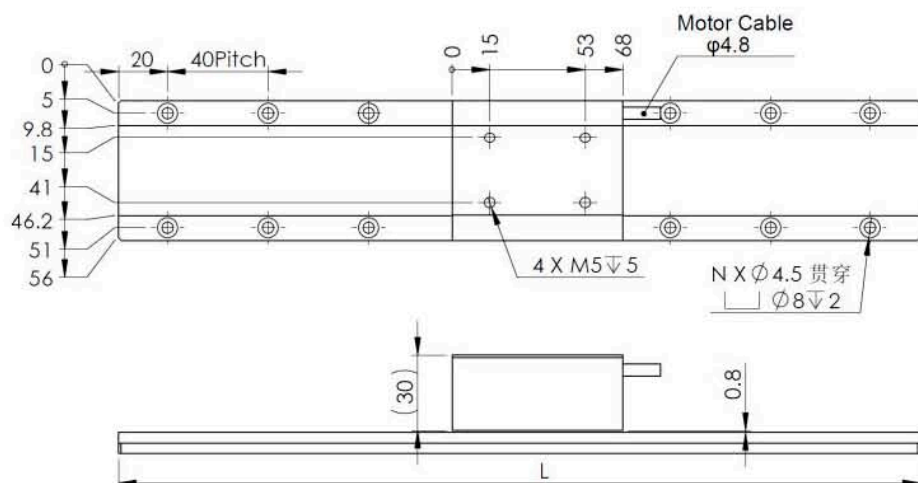
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

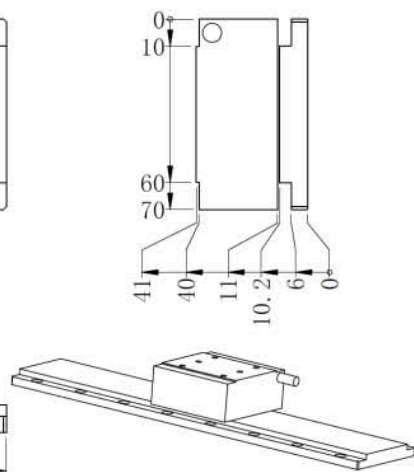
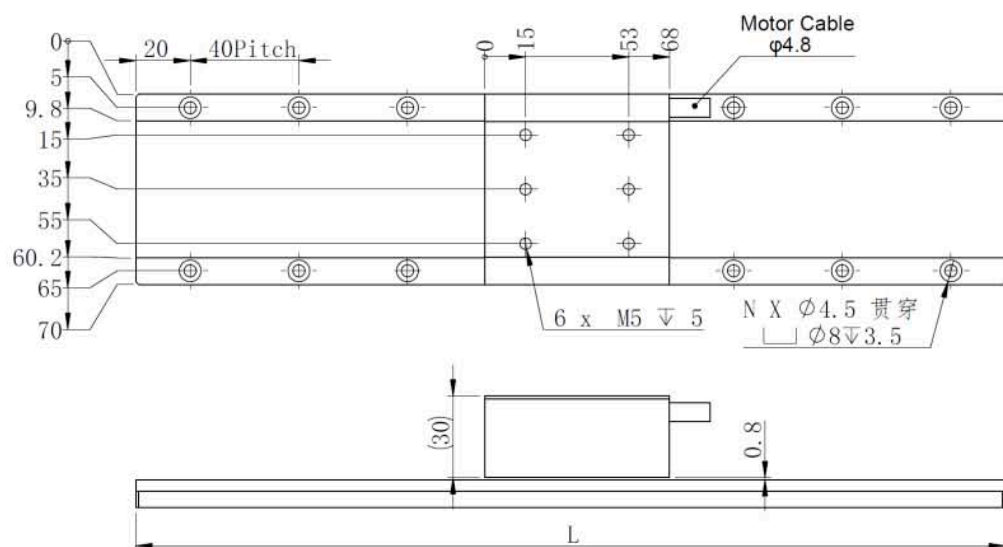
*Distance of Forcer and motor track: 0.8mm

AFS07-4 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS07-4-80L	80	4
AFS07-4-160L	160	8
AFS07-4-320L	320	16

AFS07-5Series (Unit: mm):

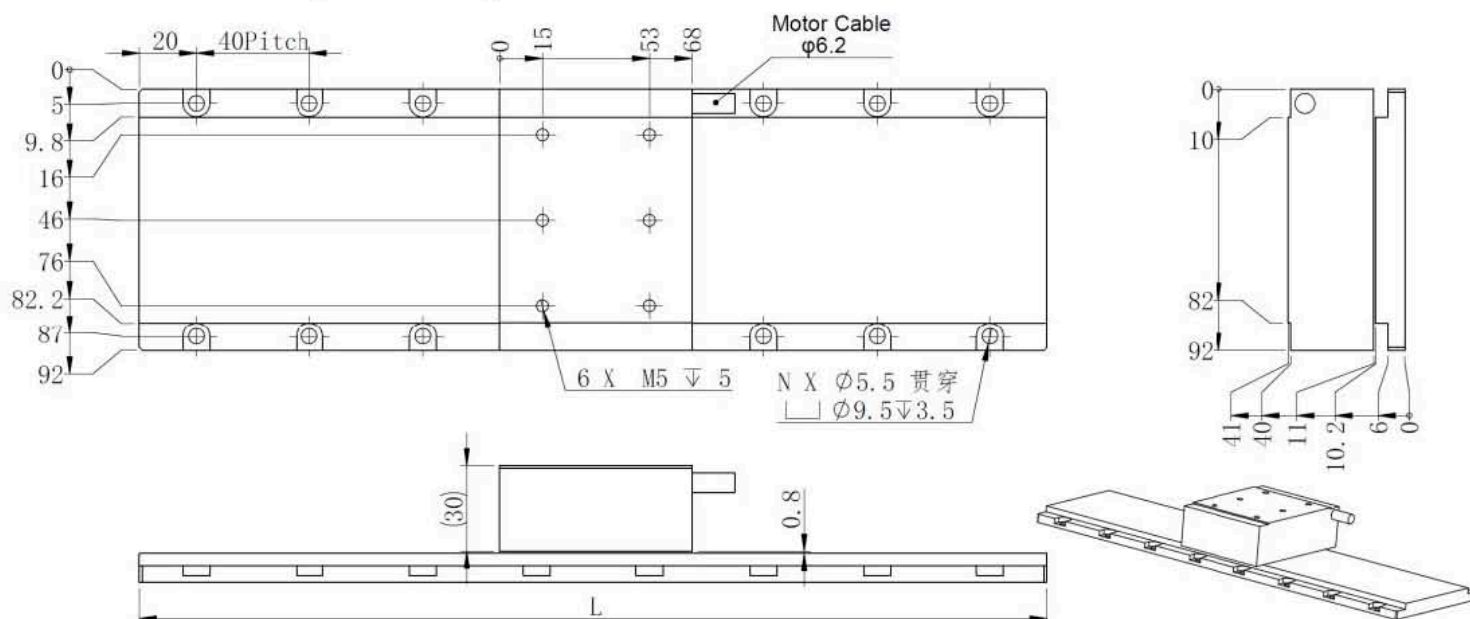


Type	Size(mm) L	Qty(pcs) N
AFS07-5-80L	80	4
AFS07-5-160L	160	8
AFS07-5-320L	320	16

Outline Dimension (Unit: mm)

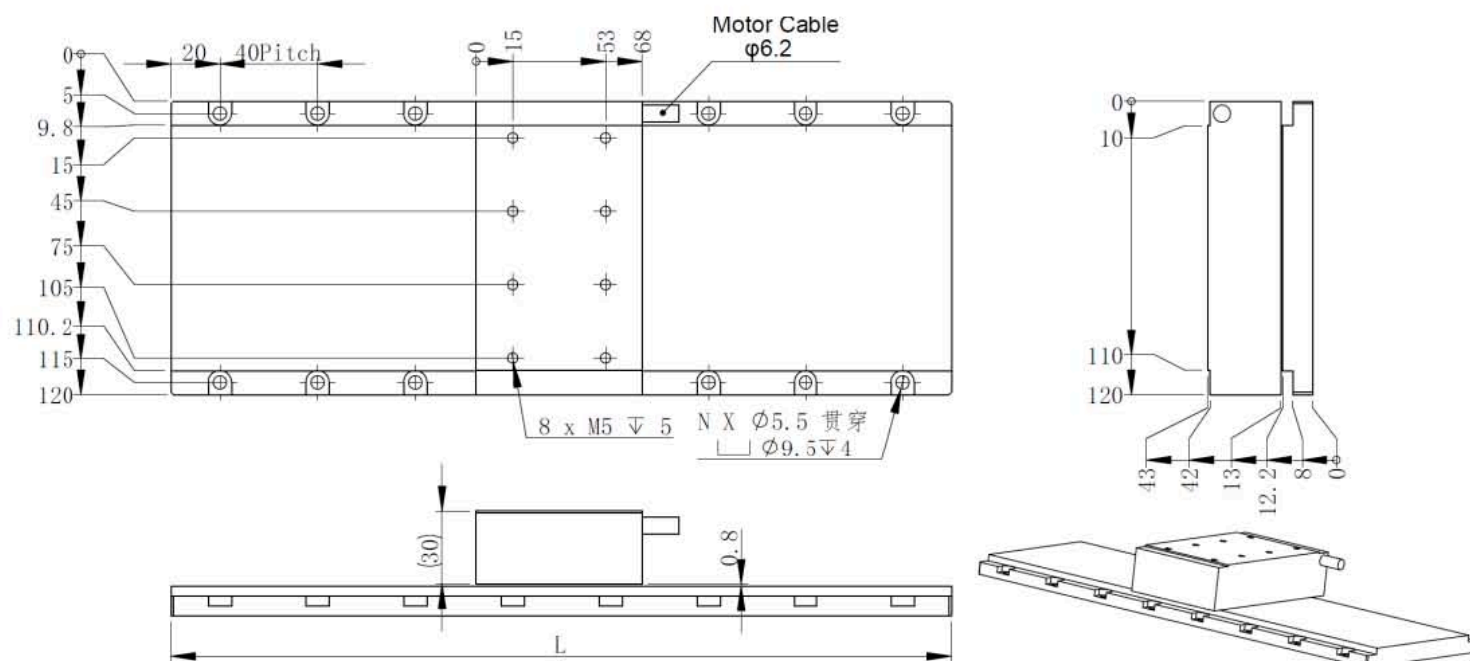
*Distance of Forcer and motor track: 0.8mm

AFS07-7 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS07-7-80L	80	4
AFS07-7-160L	160	8
AFS07-7-320L	320	16

AFS07-10 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS07-10-80L	80	4
AFS07-10-160L	160	8
AFS07-10-320L	320	16

Ironcore Linear motor_AFS13 Series

Force

- Peak: 388-1080N
- Continuous: 129-360N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



AFS Series Electrical Specification:

Parameters	Unit	AFS13-4	AFS13-5	AFS13-7	AFS13-10
Peak force	N	388	540	777	1080
Continuous force	N	129	180	259	360
Peak current	A	9	9	9	9
Continuous current	A	3	3	3	3
Force constant	N/Arms	43.2	60	86.4	120
Back EMF constant	Vpk/m/s	37.5	52.2	75.1	104.4
Max speed	m/s	4	4	4	4
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	10.2	14.2	20.4	28.4
Resistance	omiga	2.2	3.1	4.4	6.2
Pole pitch	mm	32	32	32	32
Forcer size	mm	130*56*30	130*70*30	130*92*30	130*120*30
Forcer weight	g	986	1370	1972	2740
Magnet rail weight	g/mm	3.39	4.72	6.79	9.44

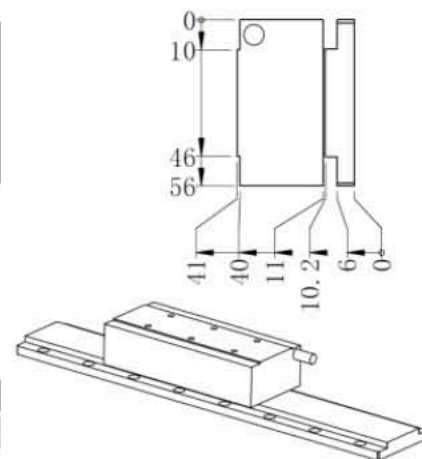
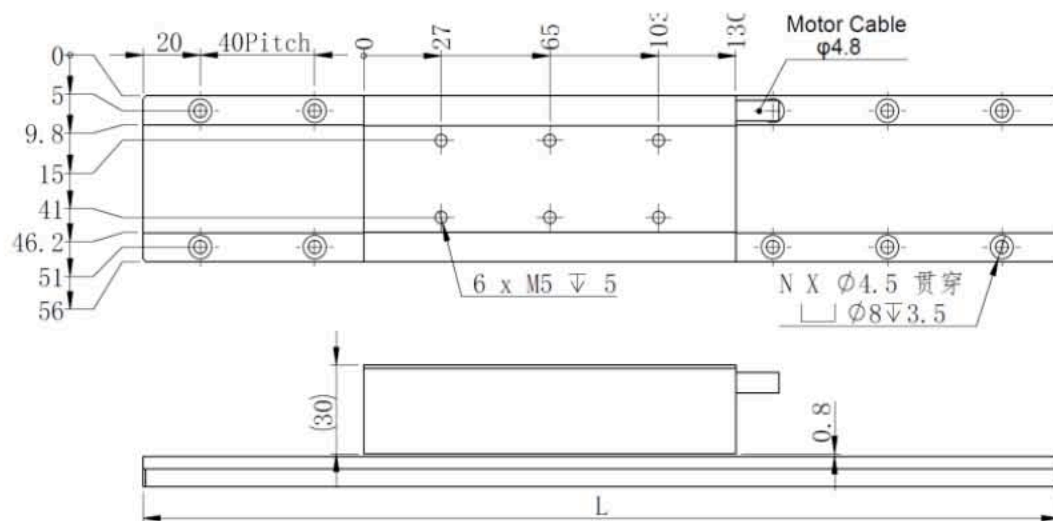
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

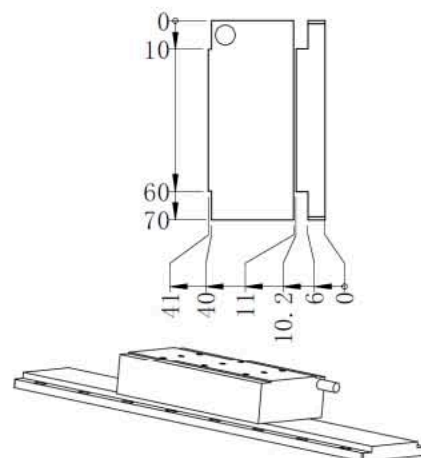
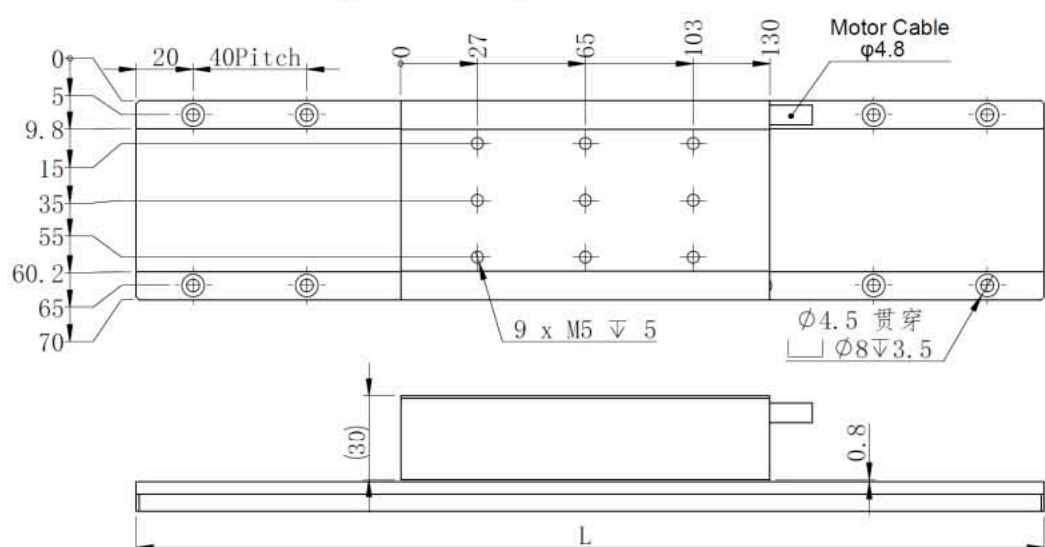
*Distance of Forcer and motor track: 0.8mm

AFS13-4 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS13-4-80L	80	4
AFS13-4-160L	160	8
AFS13-4-320L	320	16

AFS13-5 Series (Unit: mm):

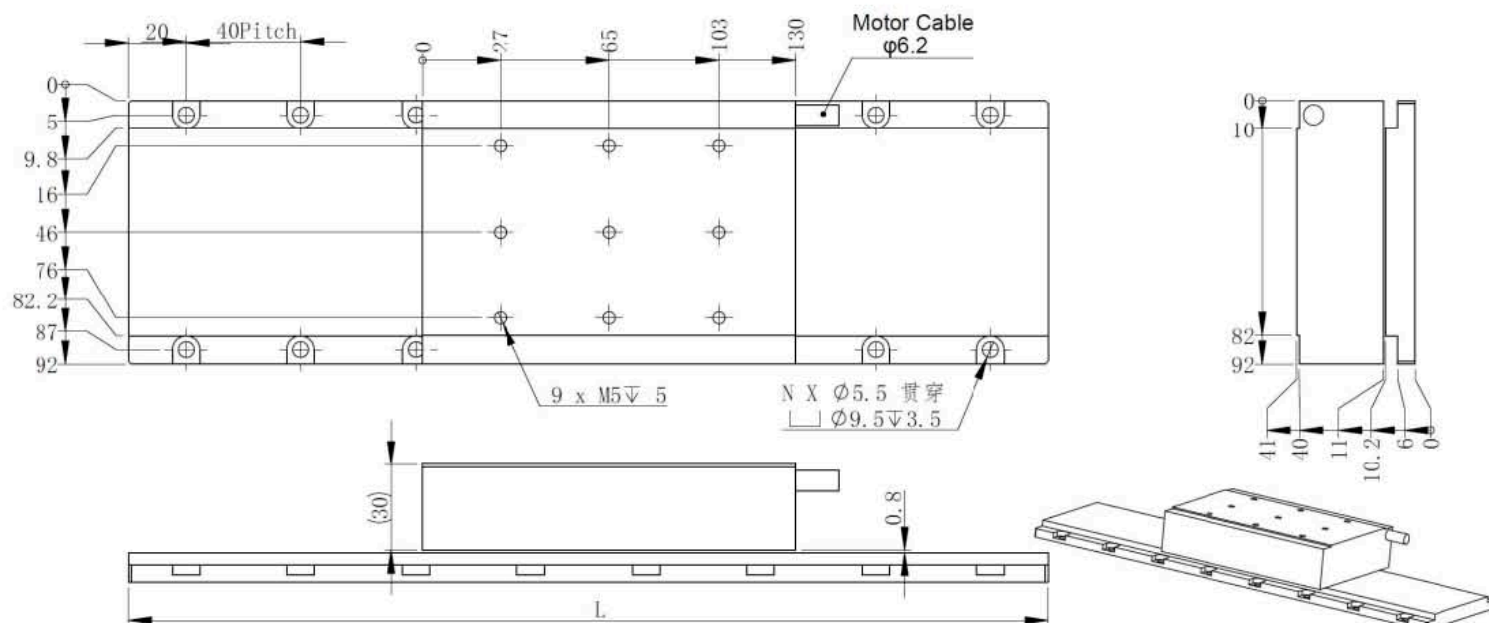


Type	Size(mm) L	Qty(pcs) N
AFS13-5-80L	80	4
AFS13-5-160L	160	8
AFS13-5-320L	320	16

Outline Dimension (Unit: mm)

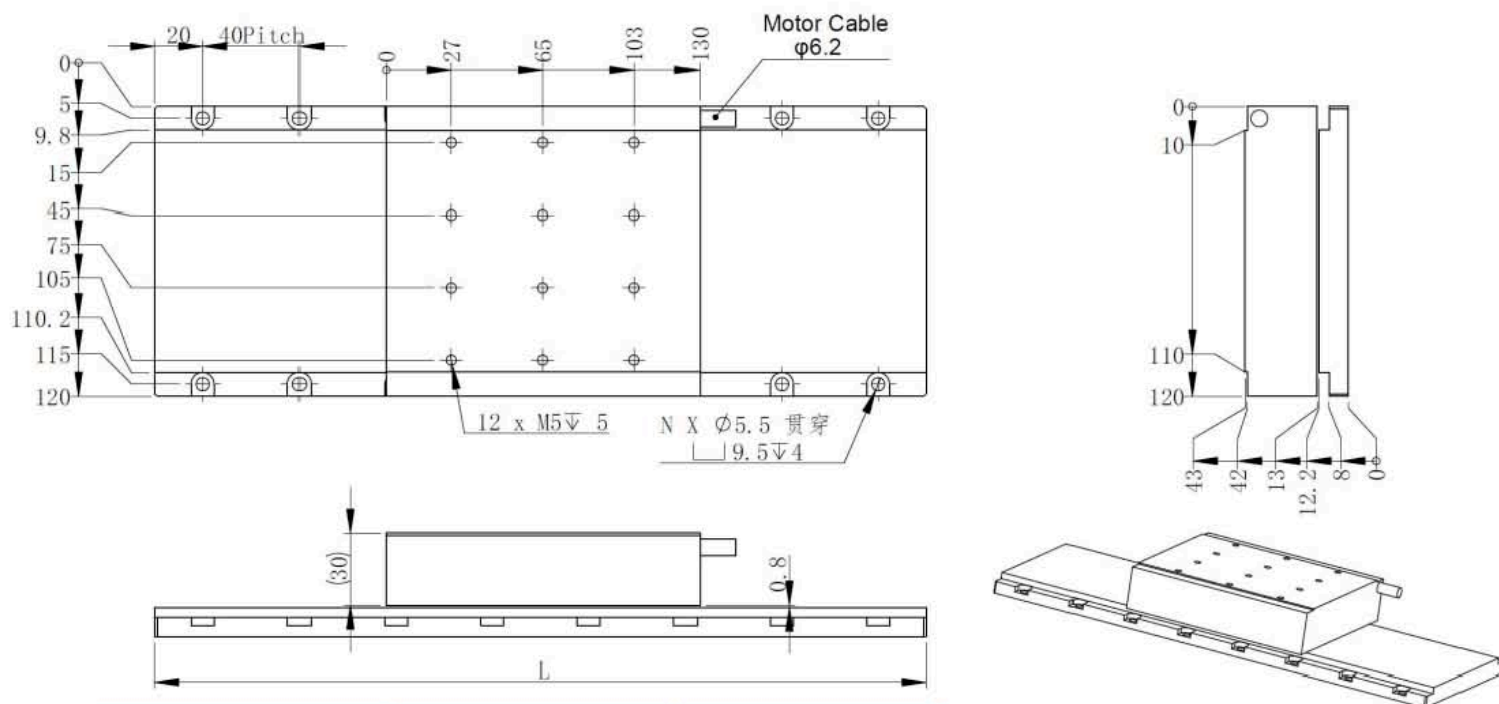
*Distance of Forcer and motor track: 0.8mm

AFS13-7 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS13-7-80L	80	4
AFS13-7-160L	160	8
AFS13-7-320L	320	16

AFS13-10 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS13-10-80L	80	4
AFS13-10-160L	160	8
AFS13-10-320L	320	16

Ironcore Linear motor_AFS18 Series

Force

- Peak: 388-1080N
- Continuous: 129-360N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



AFS Series Electrical Specification:

Parameters	Unit	AFS18-4	AFS18-5	AFS18-5G	AFS18-7	AFS18-10
Peak force	N	540	750	750	1080	1500
Continuous force	N	180	250	250	360	500
Peak current	A	9	9	15	15	15
Continuous current	A	3	3	5	5	5
Force constant	N/Arms	59	83	83	83	100
Back EMF constant	Vpk/m/s	49	68	68	68	81.6
Max speed	m/s	4	2.5	4	4	4
Encoder	um	0.1-5	0.1+5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	33.6	46.8	20.8	20.8	25.2
Resistance	omiga	7.3	7.4	2.6	2.6	3.9
Pole pitch	mm	36	36	36	36	36
Forcer size	mm	184*56*30	184*70*30	184*70*30	184*92*30	184*120*30
Forcer weight	g	1660	2083	2153	2110	3730
Magnet rail weight	g/mm	3.21	4.63	4.63	6.66	9.87

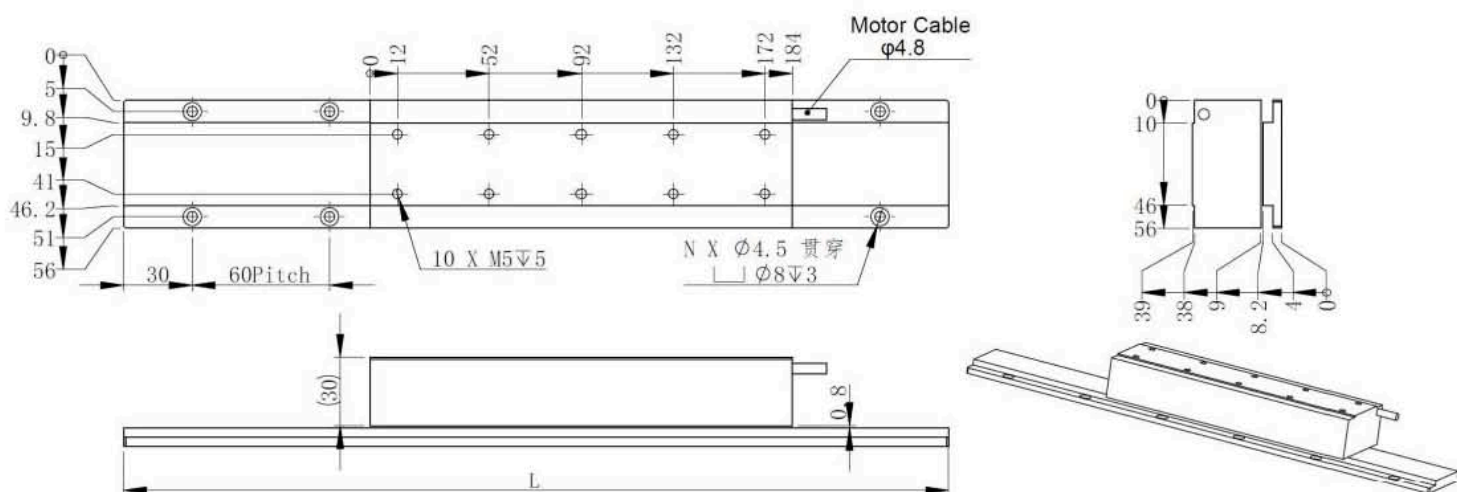
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

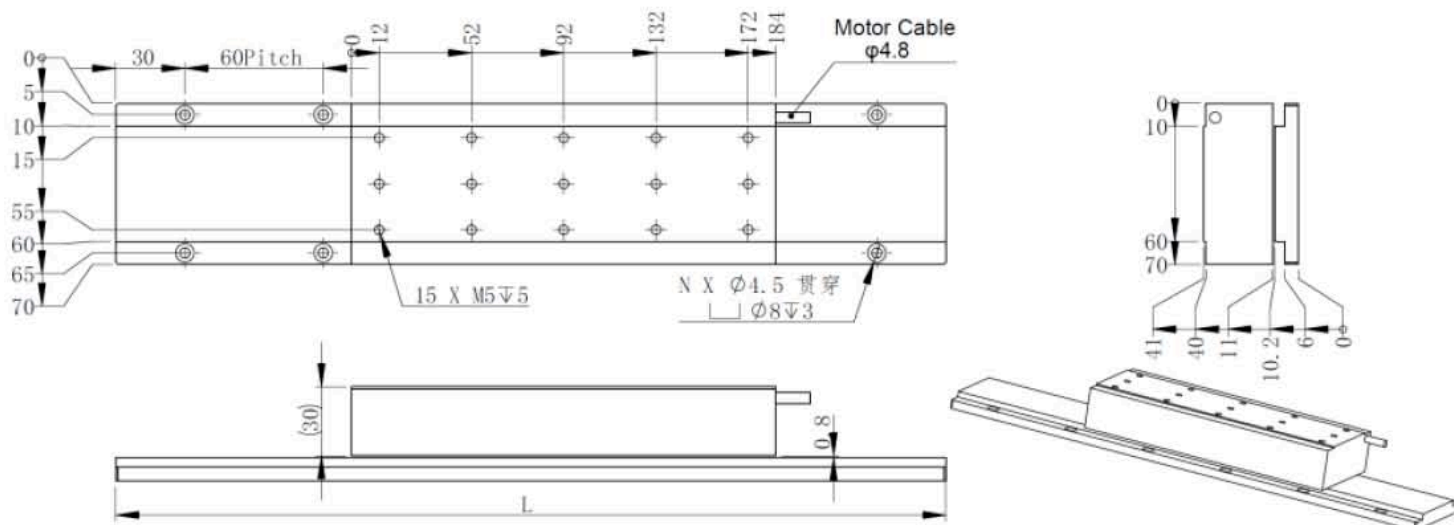
*Distance of Forcer and motor track: 0.8mm

AFS18-4 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS18-4-90L	90	2
AFS18-4-180L	180	3
AFS18-4-360L	360	6

AFS18-5 Series (Unit: mm):

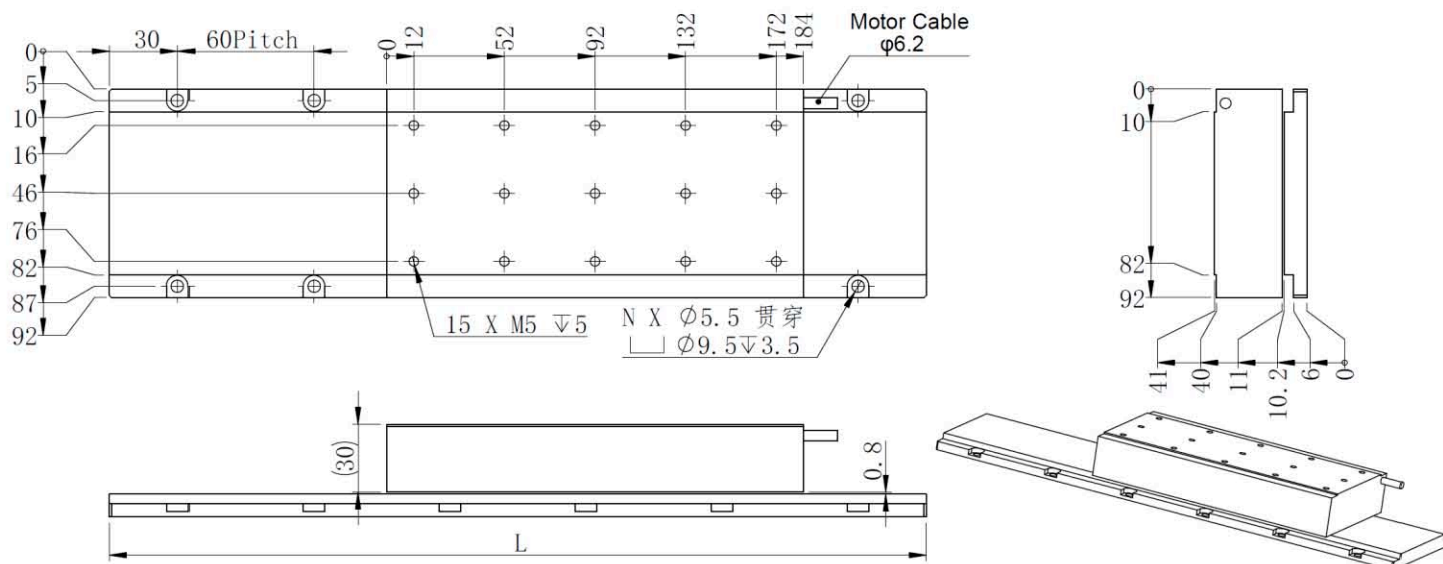


Type	Size(mm) L	Qty(pcs) N
AFS18-5-90L	90	2
AFS18-5-180L	180	3
AFS18-5-360L	360	6

Outline Dimension (Unit: mm)

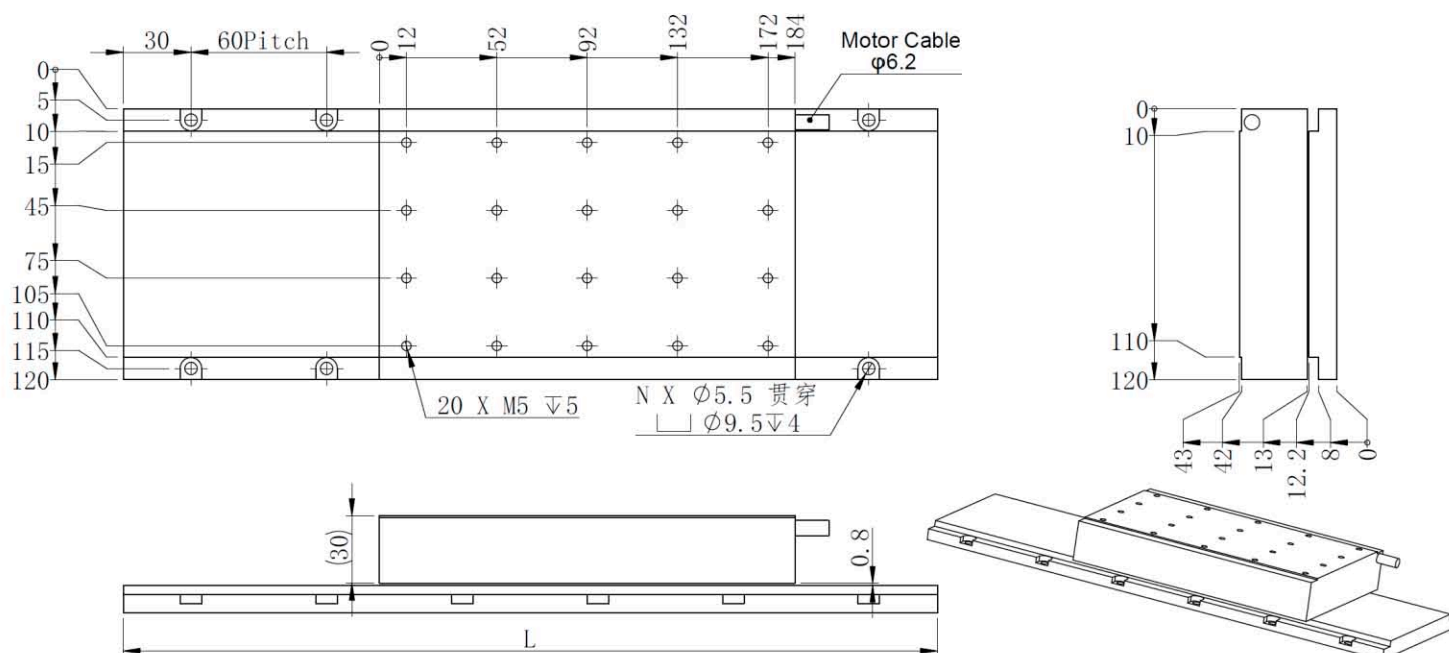
*Distance of Forcer and motor track: 0.8mm

AFS18-7 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS18-7-90L	90	2
AFS18-7-180L	180	3
AFS18-7-360L	360	6

AFS18-10 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS18-10-90L	90	2
AFS18-10-180L	180	3
AFS18-10-360L	360	6

Ironcore Linear motor_AFS26 Series

Force

- Peak: 777-2160N
- Continuous: 259-720N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



AFS Series Electrical Specification:

Parameters	Unit	AFS26-4	AFS26-5	AFS26-7	AFS26-10
Peak force	N	777	1080	1555	2160
Continuous force	N	259	360	518	720
Peak current	A	15	15	15	15
Continuous current	A	5	5	5	5
Force constant	N/Arms	86.4	120	172.8	240
Back EMF constant	Vpk/m/s	37.5	52.2	75.1	104.4
Max speed	m/s	4	4	4	4
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	10.2	14.2	20.4	28.4
Resistance	omiga	2.1	2	4.3	6
Pole pitch	mm	32	32	32	32
Forcer size	mm	260*56*30	260*70*30	260*92*30	260*120*30
Forcer weight	g	1972	2740	3945	5480
Magnet rail weight	g/mm	3.39	4.72	6.79	9.44

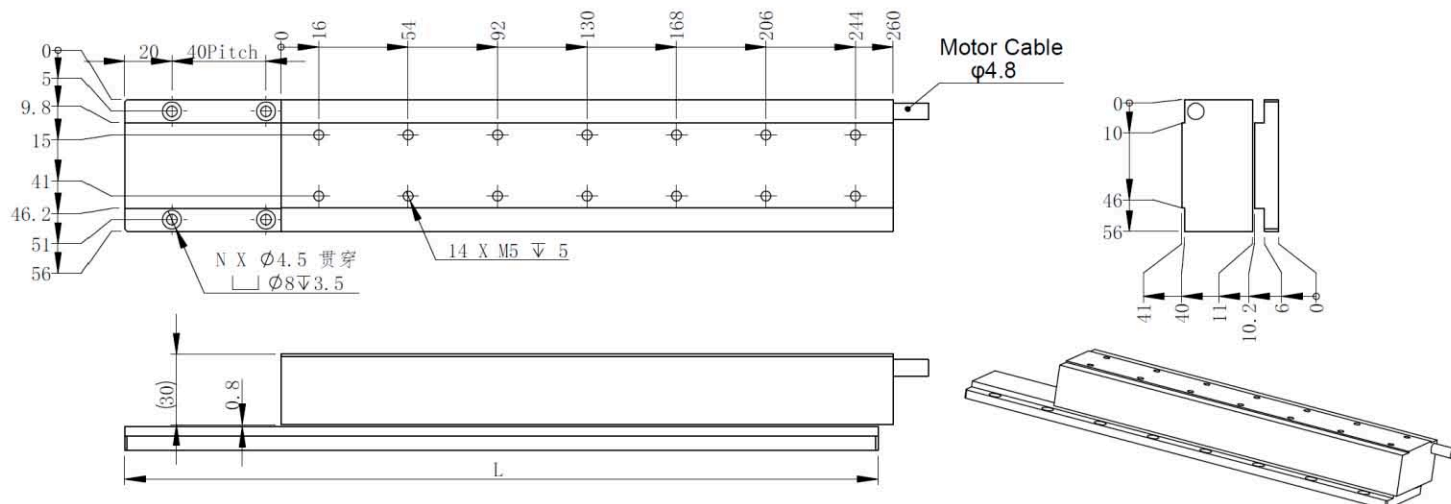
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

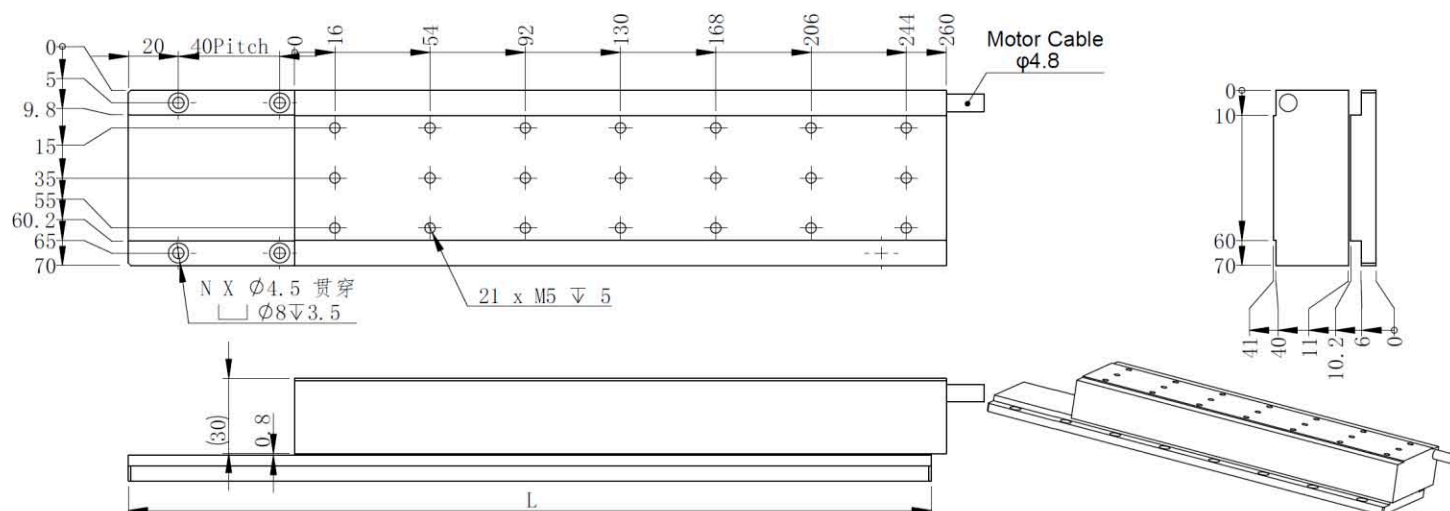
*Distance of Forcer and motor track: 0.8mm

AFS26-4 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS26-4-80L	80	4
AFS26-4-160L	160	8
AFS26-4-320L	320	16

AFS26-5 Series (Unit: mm):

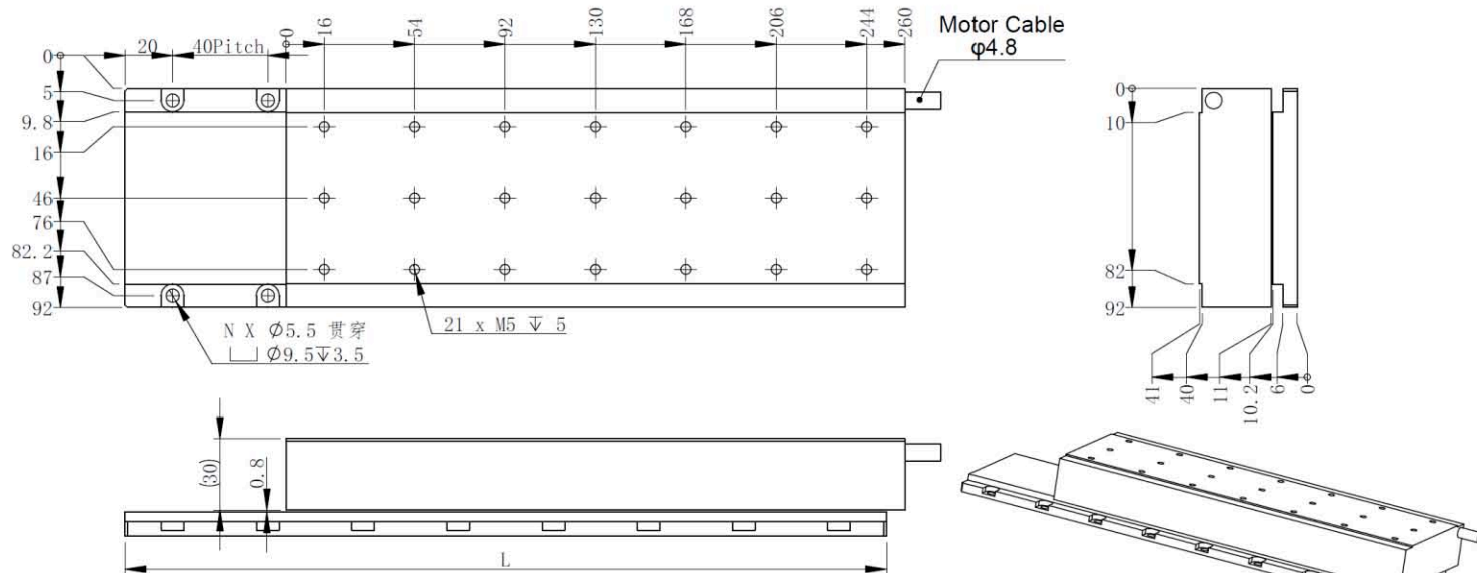


Type	Size(mm) L	Qty(pcs) N
AFS26-5-80L	80	4
AFS26-5-160L	160	8
AFS26-5-320L	320	16

Outline Dimension (Unit: mm)

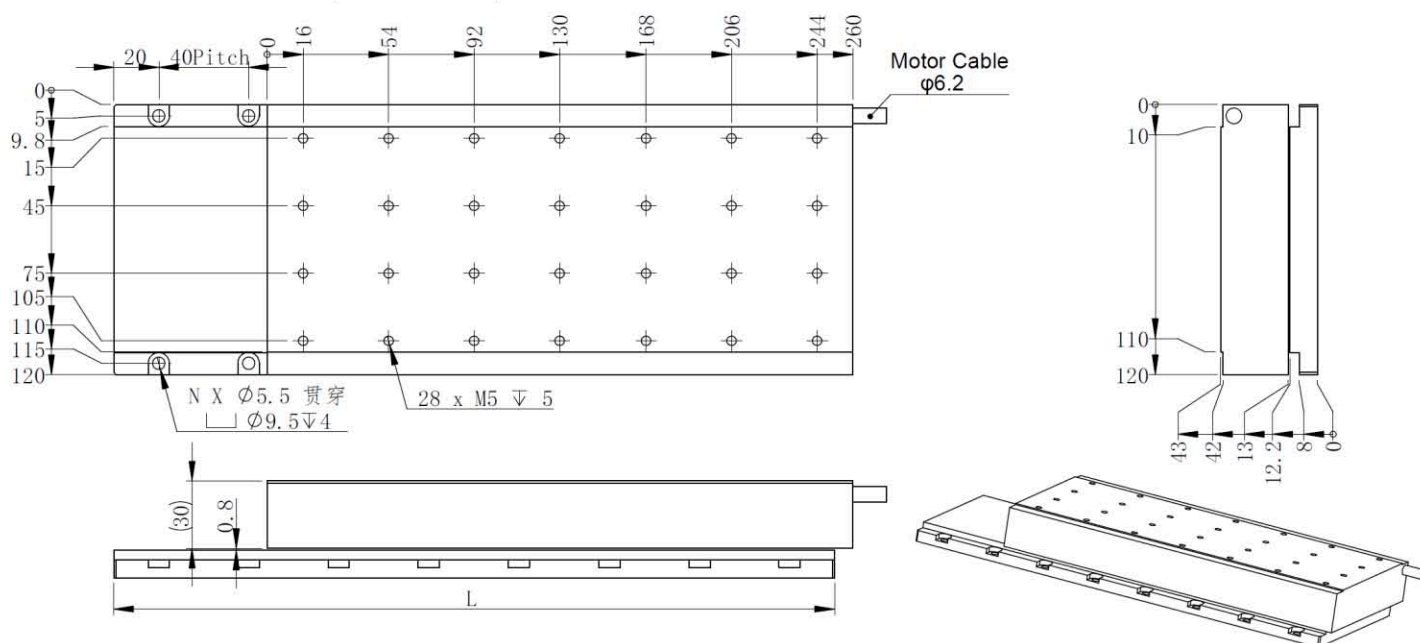
*Distance of Forcer and motor track: 0.8mm

AFS26-7 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS26-7-80L	80	4
AFS26-7-160L	160	8
AFS26-7-320L	320	16

AFS26-10 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
AFS26-5-80L	80	4
AFS26-5-160L	160	8
AFS26-5-320L	320	16

Ironcore Linear motor_ASFS03 Series

Force

- Peak: 37.5-150N
- Continuous: 12.5-50N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



ASFS Series Electrical Specification:

Parameters	Unit	ASFS03-4	ASFS03-8	ASFS03-11	ASFS03-15
Peak force	N	37.5	75	112.5	150
Continuous force	N	12.5	25	37.5	50
Peak current	A	4.2	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4	1.4
1.4Force constant	N/Arms	8.9	17.8	26.7	35.7
Back EMF constant	Vpk/m/s	6.8	13.7	20.6	27.5
Max speed	m/s	4	4	4	4
Encoder	um	0.5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	4.5	9	13.5	18
Resistance	omiga	2.5	5	7.5	10
Pole pitch	mm	18	18	18	18
Forcer size	mm	40*40*21	76*40*21	112*40*21	150*40*21
Forcer weight	g	167	335	502	670
Magnet rail weight	g/mm	2.16			

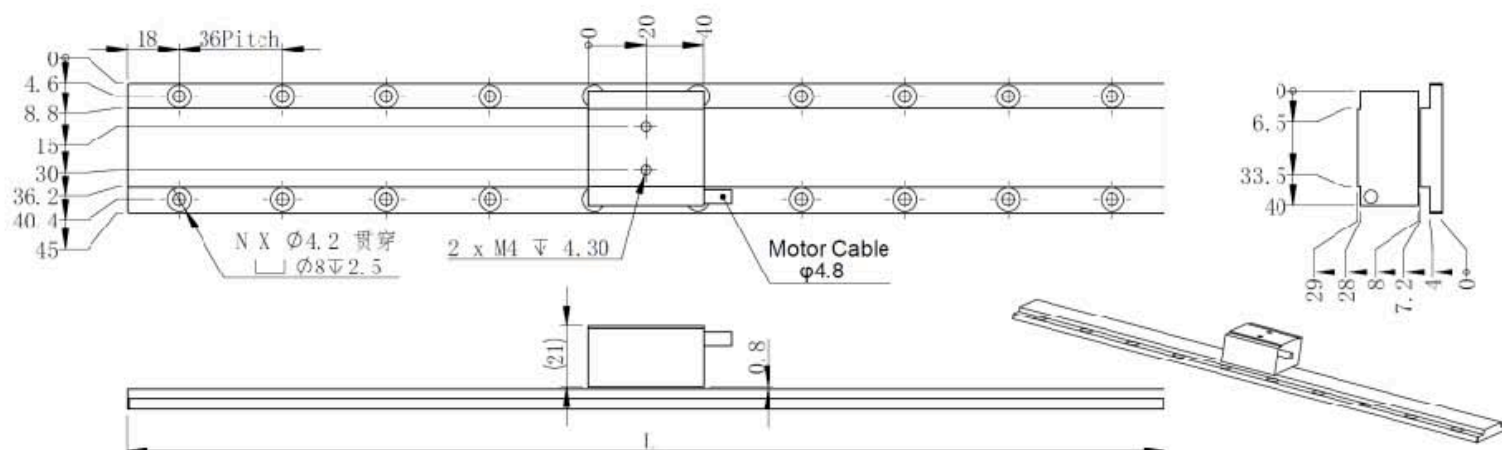
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

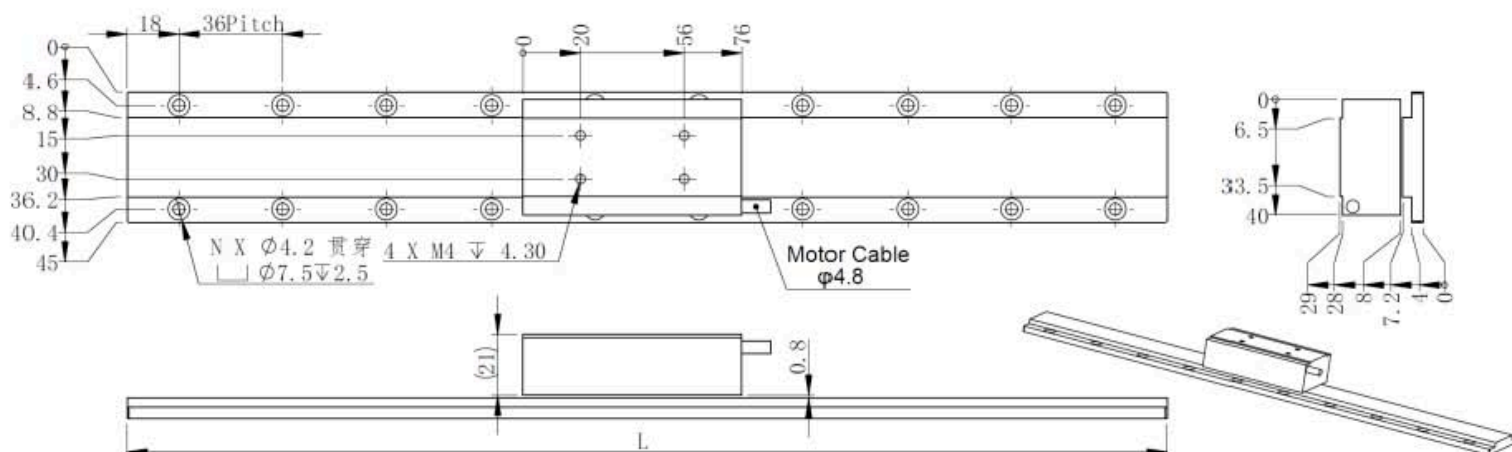
*Distance of Forcer and motor track: 0.8mm

ASFS03-4 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
ASFS03-4-108L	108	3
ASFS03-4-180L	180	5
ASFS03-4-360L	360	10

ASFS03-8 Series (Unit: mm):

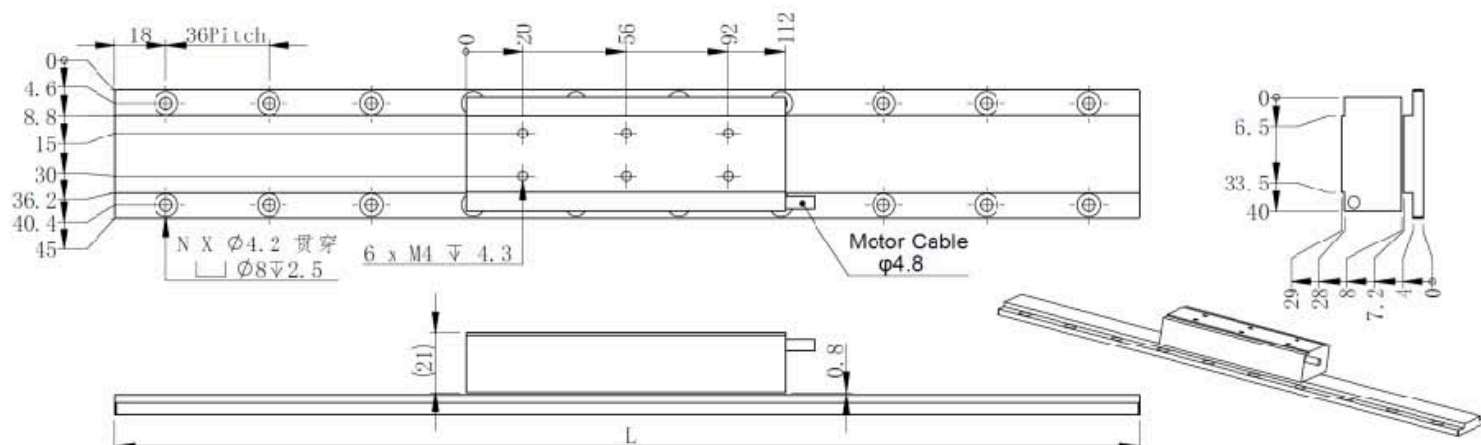


Type	Size(mm) L	Qty(pcs) N
ASFS03-8-108L	108	3
ASFS03-8-180L	180	5
ASFS03-8-360L	360	10

Outline Dimension (Unit: mm)

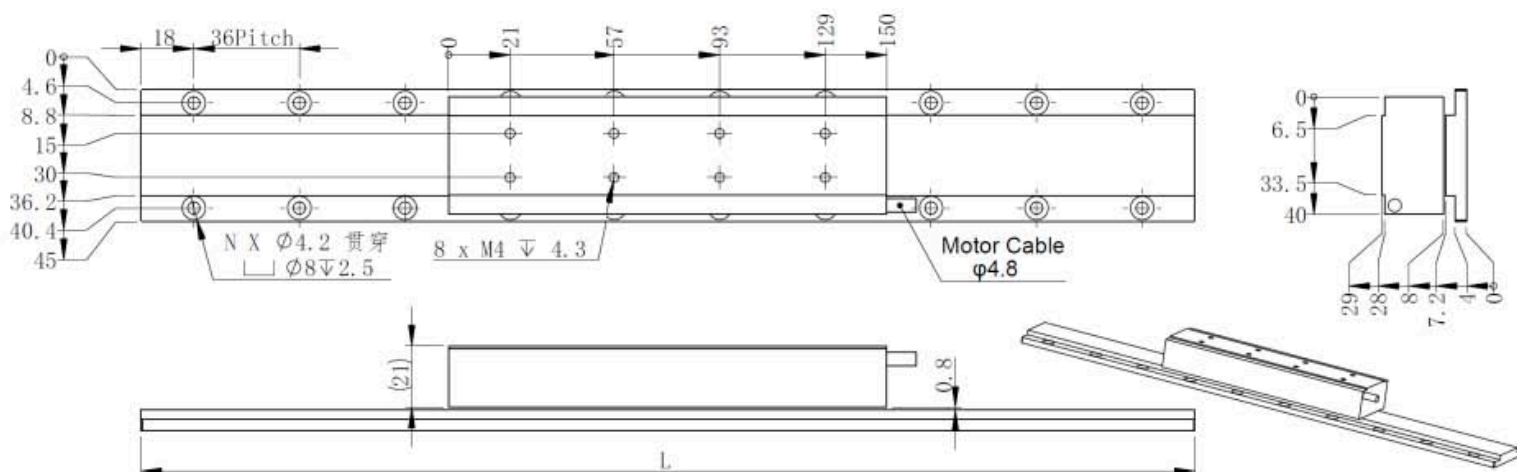
*Distance of Forcer and motor track: 0.8mm

ASFS03-11 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
ASFS03-11-108L	108	3
ASFS03-11-180L	180	5
ASFS03-11-360L	360	10

ASFS03-15 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
ASFS03-15-108L	108	3
ASFS03-15-180L	180	5
ASFS03-15-360L	360	10

Ironcore Linear motor_ASFS05 Series

Force

- Peak: 75-300N
- Continuous: 25-100N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



ASFS Series Electrical Specification:

Parameters	Unit	ASFS05-4	ASFS05-8	ASFS05-11	ASFS05-15
Peak force	N	75	150	225	300
Continuous force	N	25	50	75	100
Peak current	A	4.2	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4	1.4
Force constant	N/Arms	17.8	35.7	53.5	71.4
Back EMF constant	Vpk/m/s	13.75	27.5	41.25	55
Max speed	m/s	4	4	4	4
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	9	18	27	36
Resistance	omiga	5	10	15	20
Pole pitch	mm	18	18	18	18
Forcer size	mm	40*67*21	76*67*21	112*67*21	150*67*21
Forcer weight	g	335	670	1005	1340
Magnet rail weight	g/mm	4.32			

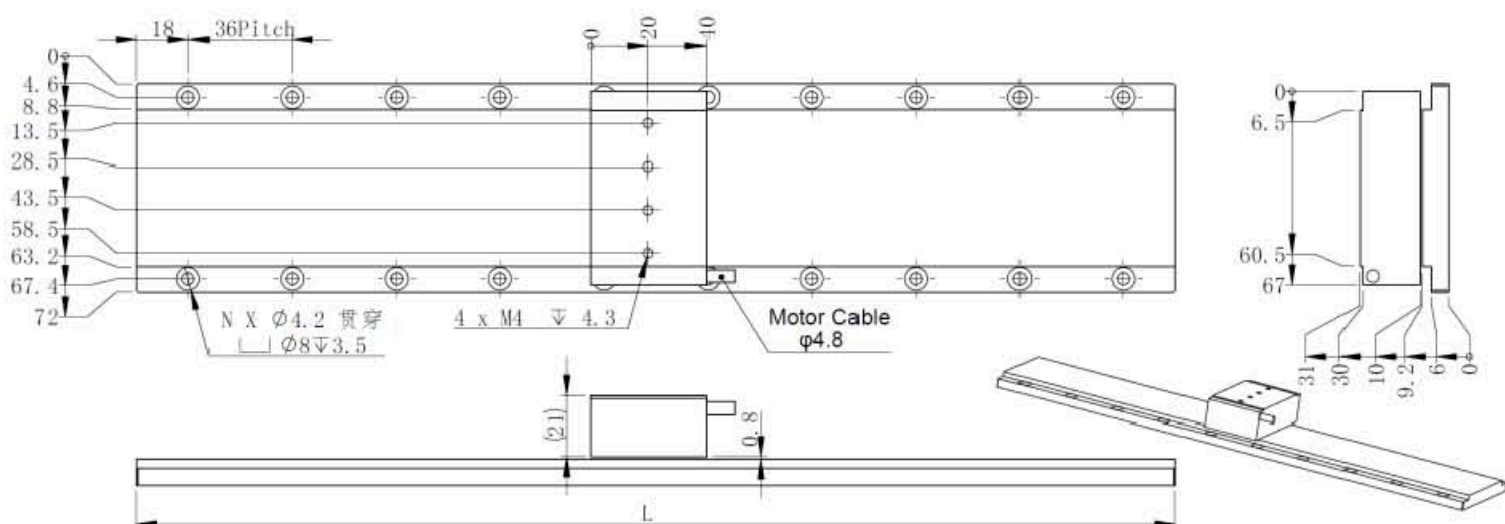
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

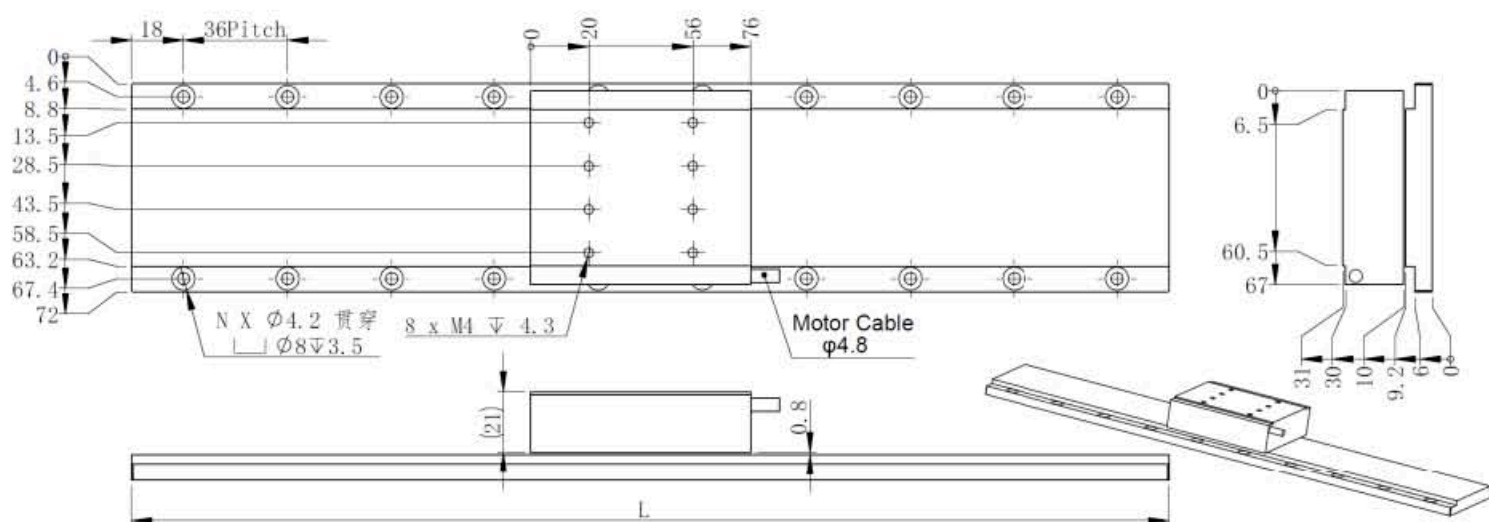
*Distance of Forcer and motor track: 0.8mm

ASFS05-4 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
ASFS05-4-108L	108	3
ASFS05-4-180L	180	5
ASFS05-4-360L	360	10

ASFS05-8 Series (Unit: mm):

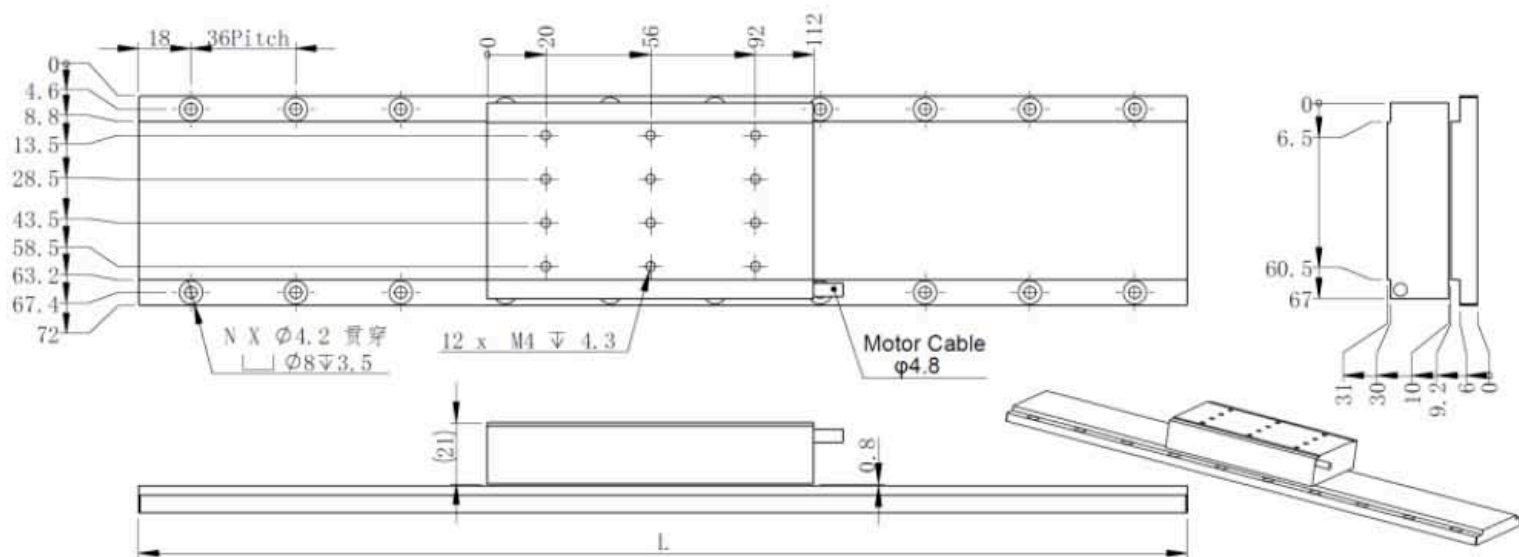


Type	Size(mm) L	Qty(pcs) N
ASFS05-8-108L	108	3
ASFS05-8-180L	180	5
ASFS05-8-360L	360	10

Outline Dimension (Unit: mm)

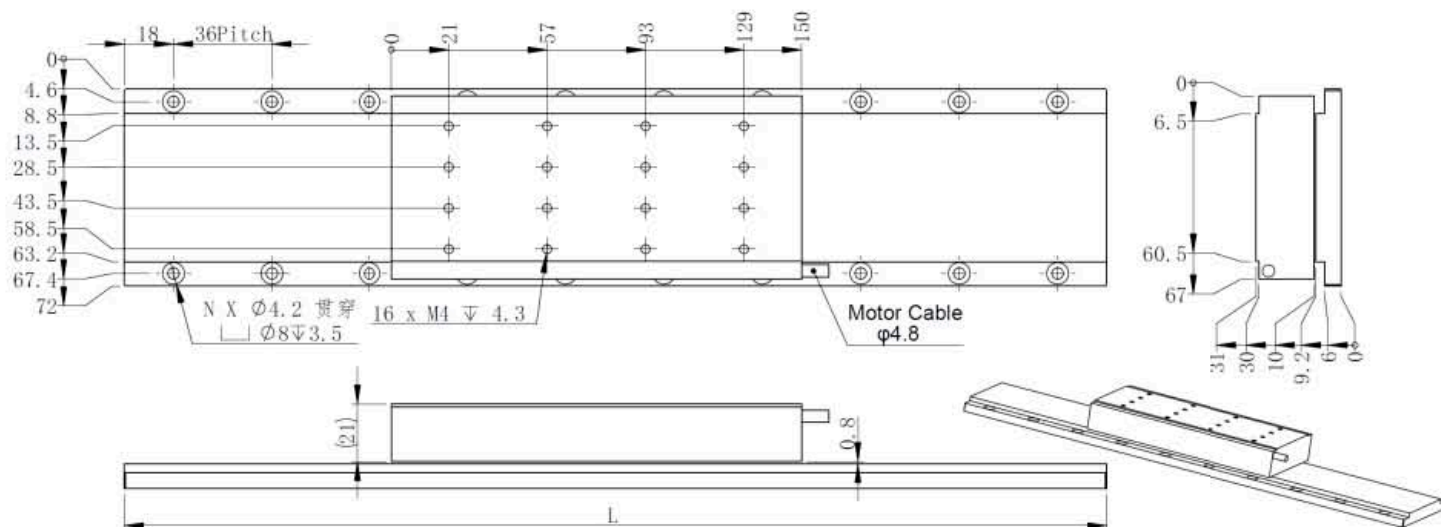
*Distance of Forcer and motor track: 0.8mm

ASFS03-11 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
ASFS05-11-108L	108	3
ASFS05-11-180L	180	5
ASFS05-11-360L	360	10

ASFS05-15 Series (Unit: mm):



Type	Size(mm) L	Qty(pcs) N
ASFS05-15-108L	108	3
ASFS05-15-180L	180	5
ASFS05-15-360L	360	10