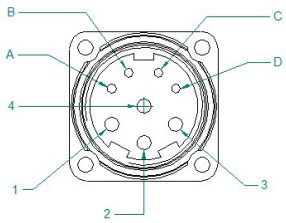
WIRING MOTOR CONNECTIONS
for incremental encoder

CONNECTORS TYPE 19

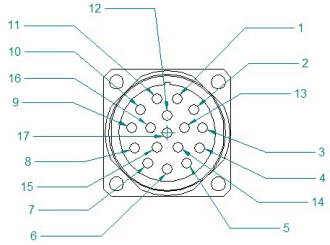
POWER CONNECTOR

PIN	FUNCTION
1	Phase U
2	PE
3	Phase W
4	Phase V
A	N.C.
B	N.C.
C	PT 1000 (+)
D	PT 1000 (-)



FEEDBACK CONNECTOR

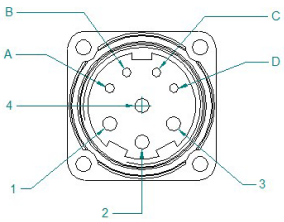
PIN	FEEDBACK FUNCTION
1	N.C.
2	N.C.
3	0 Vdc
4	+ 5Vdc
5	Sin/A
6	Sin A
7	Ref R -
8	Ref R +
9	N.C.
10	Shield
11	Cos/B
12	Cos B
13	+5Vdc **Sense
14	0Vdc **Sense
15	N.C.
16	Reserved: do not connect
17	Reserved: do not connect



CONNECTORS TYPE 20

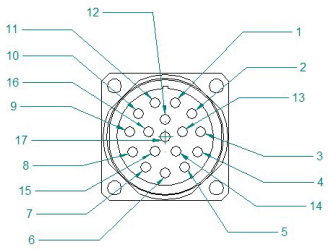
POWER CONNECTOR

PIN	FUNCTION
1	Phase U
2	PE
3	Phase W
4	Phase V
A	N.C.
B	N.C.
C	N.C.
D	N.C.



FEEDBACK CONNECTOR

PIN	FEEDBACK FUNCTION
1	PT 1000 (+)
2	PT 1000 (-)
3	0 Vdc
4	+ 5Vdc
5	Sin/A
6	Sin A
7	Ref R -
8	Ref R +
9	N.C.
10	Shield
11	Cos/B
12	Cos B
13	+5Vdc **Sense
14	0Vdc **Sense
15	N.C.
16	Reserved: do not connect
17	Reserved: do not connect

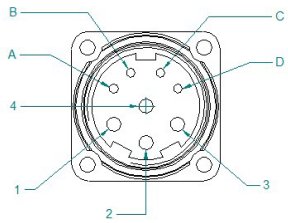


WIRING MOTOR CONNECTIONS
for absolute encoder

CONNECTORS TYPE 19

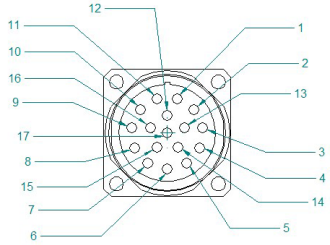
POWER CONNECTOR

PIN	FUNCTION
1	Phase U
2	PE
3	Phase W
4	Phase V
A	N.C.
B	N.C.
C	PT 1000 (+)
D	PT 1000 (-)



FEEDBACK CONNECTOR

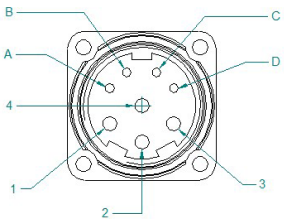
PIN	FEEDBACK FUNCTION
1	+ 5Vdc **Sense
2	N.C.
3	N.C.
4	0Vdc **Sense
5	N.C.
6	N.C.
7	+ 5Vdc
8	Clock +
9	Clock -
10	0Vdc
11	Shield
12	-
13	-
14	Data +
15	-
16	-
17	Data -



CONNECTORS TYPE 20

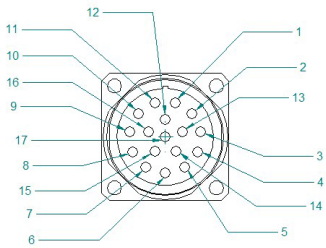
POWER CONNECTOR

PIN	FUNCTION
1	Phase U
2	PE
3	Phase W
4	Phase V
A	N.C.
B	N.C.
C	N.C.
D	N.C.



FEEDBACK CONNECTOR

PIN	FEEDBACK FUNCTION
1	+ 5Vdc **Sense
2	PT 1000 (+)
3	PT 1000 (-)
4	0Vdc **Sense
5	N.C.
6	N.C.
7	+5Vdc
8	Clock +
9	Clock -
10	0Vdc
11	Shield
12	-
13	-
14	Data +
15	-
16	-
17	Data -



CABLES SPECIFICATIONS

SIGNAL CABLES for incremental encoder

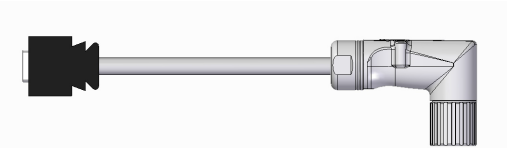
PIN/SUMITOMO 26	FUNCTION	PIN/M23
12	PT 1000 (+)	1
25	PT 1000 (-)	2
24	0 Vdc	3
11	+5 Vdc	4
22	SIN/	5
9	SIN	6
16	Ref R-	7
3	Ref R+	8
-	-	9
26	Shield	10
23	COS/	11
10	COS	12
-	-	13
-	-	14
-	-	15
	-	16
	-	17

All signal cables are for static laying.
For dynamic laying cables, please contact our front office.

Signal SUMITOMO cable for FLEXI PRO

Lenght (mm)	Order code
3000	003108020059
5000	003108020060
10000	003108020061

Signal SUMITOMO cable for FLEXI PRO with M23 90° connector



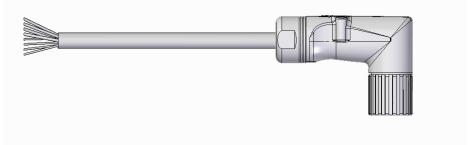
Lenght (mm)	Order code
3000	003108020069
5000	003108020070
10000	003108020071

COLOUR	FUNCTION	PIN/M23
Grey/Pink	PT 1000 (+)	1
White/Yellow	PT 1000 (-)	2
White	0 Vdc	3
Brown	+5 Vdc	4
Yellow	SIN/	5
Green	SIN	6
Grey	Ref R-	7
Pink	Ref R+	8
White/Green	-	9
Shield1	Shield	10
Black	COS/	11
Violet	COS	12
Red/Blue	-	13
Brown/Green	-	14
Yellow/Brown	-	15
Red	-	16
Blue	-	17

Signal free wire cable for general purpose

Lenght (mm)	Order code
3000	003108010500
5000	003108010502
10000	003108010504

Signal free wire cable for general purpose with M23 90° connector



Lenght (mm)	Order code
3000	003108020072
5000	003108020073
10000	003108020074

CABLES SPECIFICATIONS

SIGNAL CABLES for absolute encoder

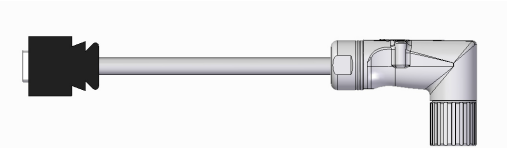
PIN/SUMITOMO 26	FUNCTION	PIN/M23
-	-	1
12	PT 1000 (+)	2
25	PT 1000 (-)	3
-	-	4
-	-	5
-	-	6
11	+5Vdc	7
2	Clock+	8
15	Clock-	9
24	0Vdc	10
26	Shield	11
-	-	12
-	-	13
1	DATA+	14
-	-	15
-	-	16
14	DATA-	17

All signal cables are for static laying.
For dynamic laying cables, please contact our front office.

Signal SUMITOMO cable for FLEXI PRO

Lenght (mm)	Order code
3000	003108007348
5000	003108007350
10000	003108007352

Signal SUMITOMO cable for FLEXI PRO with M23 90° connector



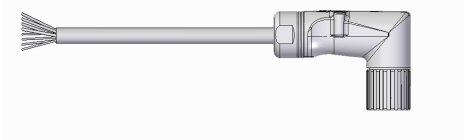
Lenght (mm)	Order code
3000	003108007354
5000	003108007356
10000	003108007358

COLOUR	FUNCTION	PIN/M23
Grey/Pink	-	1
White/Yellow	PT 1000 (+)	2
White	PT 1000 (-)	3
Brown	-	4
Yellow	-	5
Green	-	6
Grey	+5Vdc	7
Pink	Clock+	8
White/Green	Clock-	9
Black	0Vdc	10
Shield1	Shield	11
Violet	-	12
Red/Blue	-	13
Brown/Green	DATA+	14
Yellow/Brown	-	15
Red	-	16
Blue	DATA-	17

Signal free wire cable for general purpose

Lenght (mm)	Order code
3000	003108011128
5000	003108011130
10000	003108011132

Signal free wire cable for general purpose with M23 90° connector



Lenght (mm)	Order code
3000	003108011134
5000	003108011136
10000	003108011138

CABLES SPECIFICATIONS

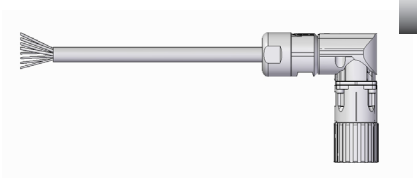
POWER CABLES

FUNCTION	PIN/M23
Phase U	1
Phase V	4
Phase W	3
PE	2
N.C.	A
N.C.	B
PT 1000 (+)	C
PT 1000 (-)	D

Power free wire cable

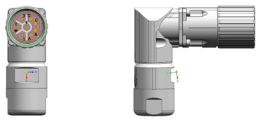
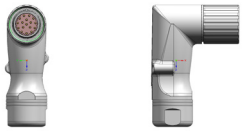
SKA RT 148 - 245		SKA RT 335 - 430	
Lenght (mm)	Order code	Lenght (mm)	Order code
3000	003108007314	3000	003108005080
5000	003108007302	5000	003108005104
10000	003108007316	10000	003108005106

Power free wire cable
with M23 90° connector



SKA RT 148 - 245		SKA RT 335 - 430	
Lenght (mm)	Order code	Lenght (mm)	Order code
3000	003108020075	3000	003108005108
5000	003108020076	5000	003108020014
10000	003108020077	10000	003108005110

FLYING CONNECTORS M23

Straight power connector pin included BSTA108NN00580236000 + 4 PIN 60.003.11 FM/2mm CRIMP.0,35-2,5 SPRING + 4 PIN 60.001.11 FM/1mm CRIMP.0,14-1 SPRING	order code 007117000472	
Straight signal connenctor pin included ASTA014NN00410235000 17p/FM + 17 PIN 60.011.11 FM/1mm CRIMP.0,14-1	order code 007117000462	
90° power connector pin included BSDA108NN00420200000 + 4 PIN 60.003.11 FM/2mm CRIMP.0,35-2,5 SPRING + 4 PIN 60.001.11 FM/1mm CRIMP.0,14-1 SPRING	order code 007117002055	
90° signal connenctor pin included ASDA014NN00480150000 + 17 PIN 60.011.11 FM/1mm CRIMP.0,14-1	order code 007117002056