

Compact PLUS units
Compact and chassis units

SIMOVERT MASTERDRIVES Vector Control Compact PLUS, Compact and Chassis Units

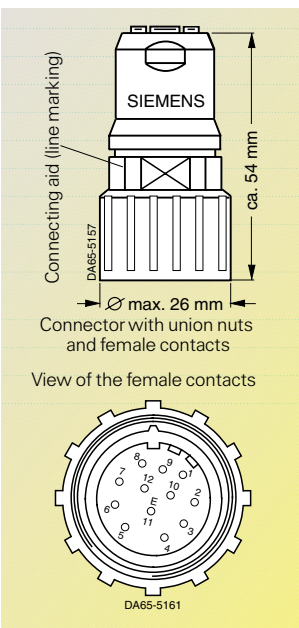
Recommended system components
Cables

Encoder cables for connecting to motors with HTL incremental encoder (cable length ≤ 150 m without transmission of the inverted signals and cable lengths 150 to 300 m with transmission of the inverted signals and use of the DTI or SBP module)

Cable design and connector assignment

Type 6FX5002-2AH00-... consisting of:

Motor side Connector type: 6FX2003-0CE12	Cable sold by the meter 6FX . 008-1BD21-...	Free end	Converter side X103 terminal strip on CUVC
Dimension drawing	PIN	Signal name	Pin No.



PIN	Signal name	Core color	Signal name	Pin No.
2	KTY 84+	white-red (0.5 mm ²)	KTY 84+	30
11	KTY 84-	white-black (0.5 mm ²)	KTY 84-	29
12	+15 V	white-yellow (0.5 mm ²)	+15 V	28
10	0 V	white-blue (0.5 mm ²)	0 V	23
5	Track A	black	Track A	24
7	CTRL TACHO	green	CTRL TACHO	27
8	Track B	red	Track B	25
3	Zero track	blue	Zero track	26
1	Track B	orange	Track B	only with DTI, X402
6	Track A	brown	Track A	only with DTI, X402
4	Zero track	violet	Zero track	-
9	free	yellow	free	-

Outer shield on connector housing

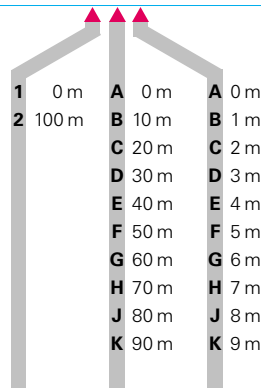
Selection and ordering data

Cable	Order No.
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Prefabricated cables (Length ≤ 150 m) MOTION CONNECT 500

Encoder cable for connection to motors with HTL incremental encoder

6FX5002-2AH00 - □ □ □ 0



Length code

Example:	1 m: ...	- 1	A	B	0
	8 m: ...	- 1	A	J	0
	17 m: ...	- 1	B	H	0
	59 m: ...	- 1	F	K	0
	111 m: ...	- 2	B	B	0

Cable	Length m	Order No.
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Not prefabricated, sold by the meter

Encoder cables for connection to motors with HTL incremental encoder	50	6FX□008-1BD21-1FA0
Number of cores x cross-section [mm ²]	100	6FX□008-1BD21-2AA0
4 x 2 x 0.38 + 4 x 0.5	200	6FX□008-1BD21-3AA0
External diameter for 6FX5: 10.0 mm	500	6FX□008-1BD21-6AA0

MOTION CONNECT 800	8
MOTION CONNECT 500	5

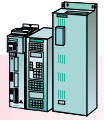
Designation	Order No.	Packaging unit quantity
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Accessories

Signal connector with union nut and female contact for encoder-cable connection to the motor, 12-pin.	6FX2003-0CE12	3
Signal connector with external winding and pin contacts for extending cables, 12-pin.	6FX2003-1CF12	3

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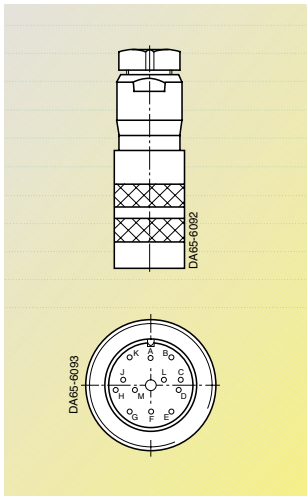
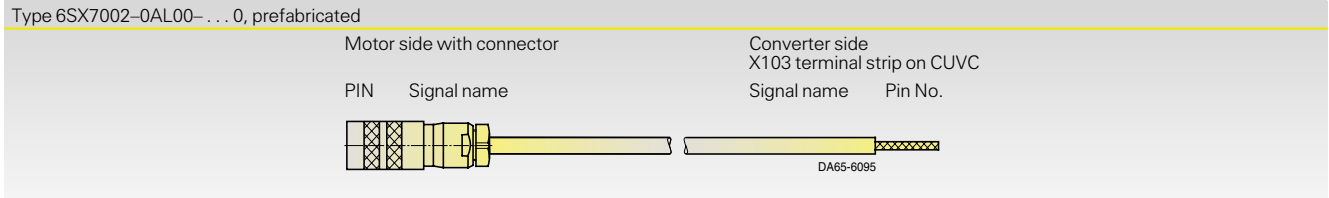


Recommended system components
Cables

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Encoder cables for connecting 1LA type motors with 1XP8001-1 incremental encoder

Cable design and connector assignment



PIN	Signal name	Signal name	Pin No.
A	$\overline{U_{a2}}$		
B	$U_p = +10 \dots 30 \text{ V}$	Tacho P15	28
C	U_{a0}	Zero pulse	26
D	$\overline{U_{a0}}$		
E	U_{a1}	Track A	24
F	$\overline{U_{a1}}$		
G	$\overline{U_{a5}}$	Control	27
H	U_{a2}	Track B	25
K	0 V		
L	0 V	Tacho M	23
M	$U_p = +10 \dots 30 \text{ V}$		

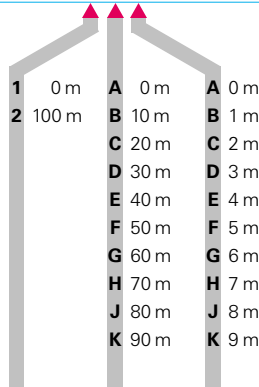
Selection and ordering data

Cable	Order No.
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Prefabricated (Length ≤ 150 m)

Encoder cable for connection to 1LA type motors with 1PX8001-1 incremental encoder

6SX7002-0AL00 - □ □ □ 0



Length code

Example:

1 m: ...	- 1 A B 0
8 m: ...	- 1 A J 0
17 m: ...	- 1 B H 0
59 m: ...	- 1 F K 0
111 m: ...	- 2 B B 0