

Configuration

Brief instruction to the configuration guide

For first time use

Tear the drawing pages along the perforated line.
The perforated line is indicated by the "scissors" symbol.

In daily use

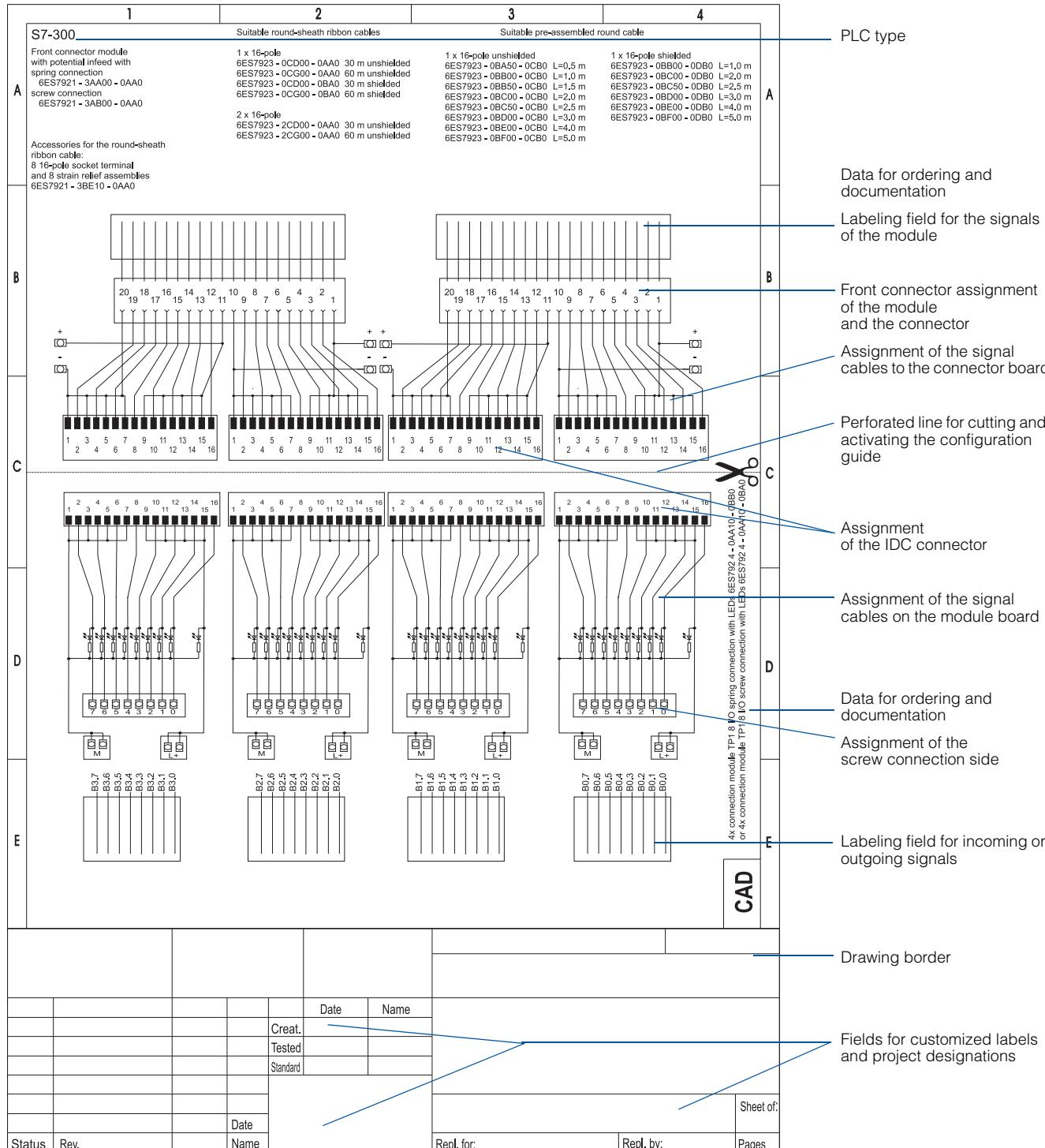
1. In the upper part of the sheets, find the SIMATIC S7-300 or S7-400 with the relevant front connector module.
2. Find the connection module you intend to use by looking through the lower halves of the pages.

You can find the valid assignment of front connector module to connection module in the selection overview on pages 2/6 to 2/13.

3. Copy the page that you have matched together.

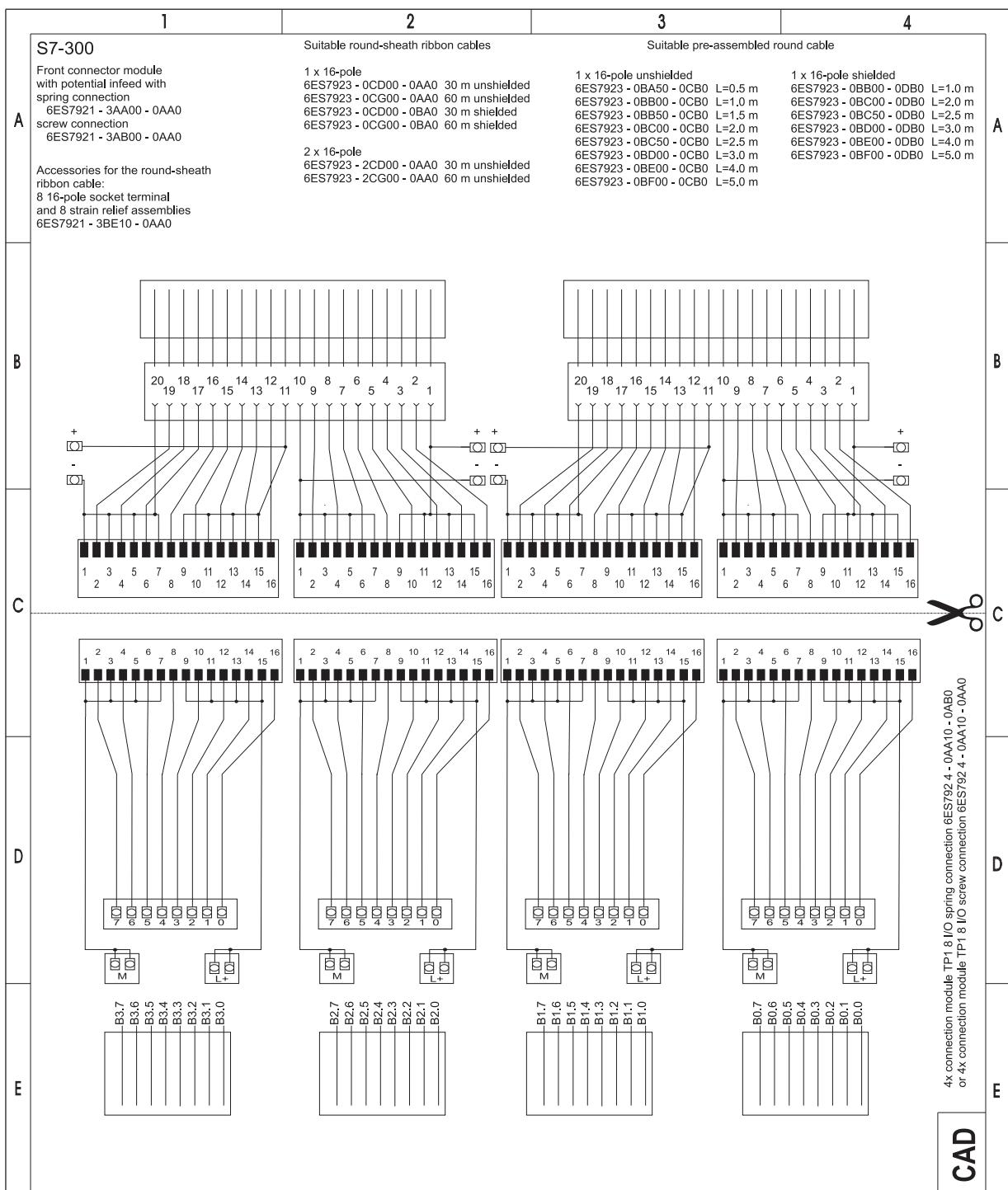
Follow all the other steps on the copy.

4. Enter the signal assignment on the labeling field of the module.
5. Enter the incoming or outgoing signals in the labeling field of the connection module.
6. Fill out the customized labeling fields.



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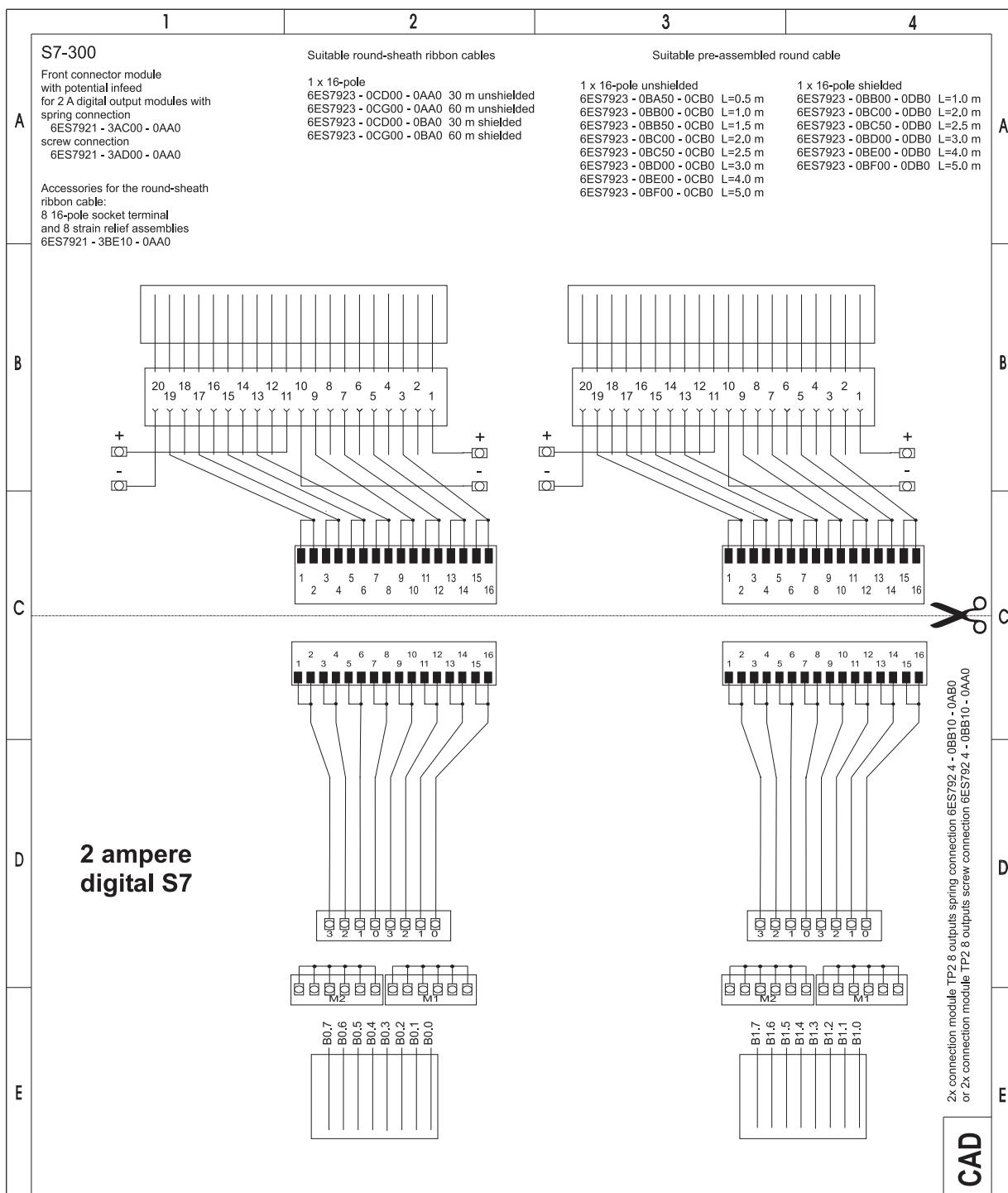
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S7-300

Front connector module
with potential infeed with
spring connection
6ES7921 - 3AA00 - 0AA0
screw connection
6ES7921 - 3AB00 - 0AA0

Suitable round-sheath ribbon cables

1 x 16-pole
6ES7923 - 0CD00 - 0AA0 30 m unshielded
6ES7923 - 0CG00 - 0AA0 60 m unshielded
6ES7923 - 0CD00 - 0BA0 30 m shielded
6ES7923 - 0CG00 - 0BA0 60 m shielded

2 x 16-pole
6ES7923 - 2CD00 - 0AA0 30 m unshielded
6ES7923 - 2CG00 - 0AA0 60 m unshielded

Accessories for the round-sheath
ribbon cable:
8 16-pole socket terminal
and 8 strain relief assemblies
6ES7921 - 3BE10 - 0AA0

Suitable pre-assembled round cable

1 x 16-pole unshielded
6ES7923 - 0BA50 - 0CB0 L=0.5 m
6ES7923 - 0BB00 - 0CB0 L=1.0 m
6ES7923 - 0BB50 - 0CB0 L=1.5 m
6ES7923 - 0BC00 - 0CB0 L=2.0 m
6ES7923 - 0BC50 - 0CB0 L=2.5 m
6ES7923 - 0BD00 - 0CB0 L=3.0 m
6ES7923 - 0BE00 - 0CB0 L=4.0 m
6ES7923 - 0BF00 - 0CB0 L=5.0 m

1 x 16-pole shielded
6ES7923 - 0BB00 - 0DB0 L=1.0 m
6ES7923 - 0BC00 - 0DB0 L=2.0 m
6ES7923 - 0BC50 - 0DB0 L=2.5 m
6ES7923 - 0BD00 - 0DB0 L=3.0 m
6ES7923 - 0BE00 - 0DB0 L=4.0 m
6ES7923 - 0BF00 - 0DB0 L=5.0 m

B **B**

C **C**

D **D**

E **E**

F

4x connection module TP1 8 I/O spring connection with LEDs 6ES7923-4-0AA10-0BA0
at 4x connection module TP1 8 I/O screw connection with LEDs 6ES7923-4-0AA10-0BA0

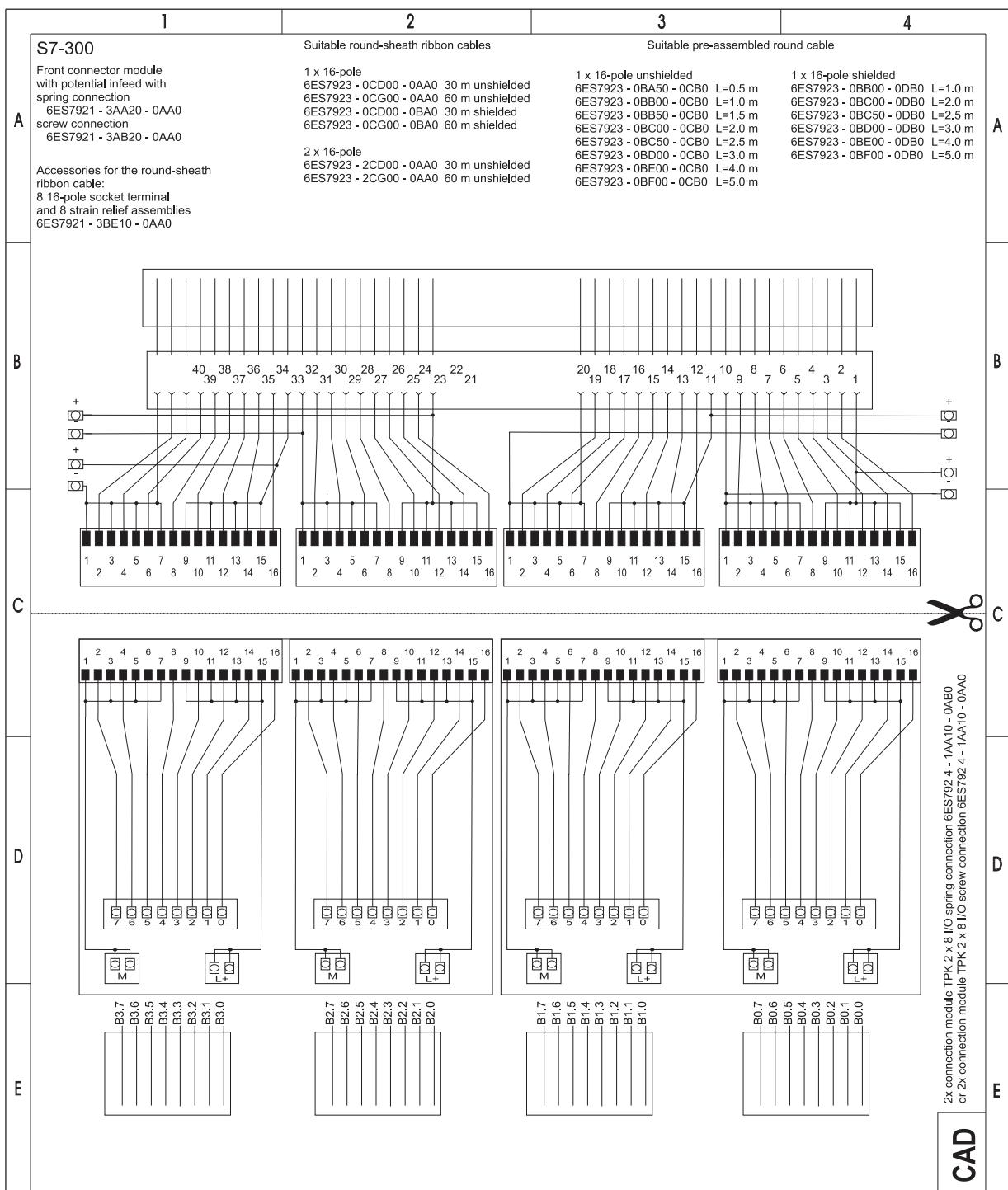
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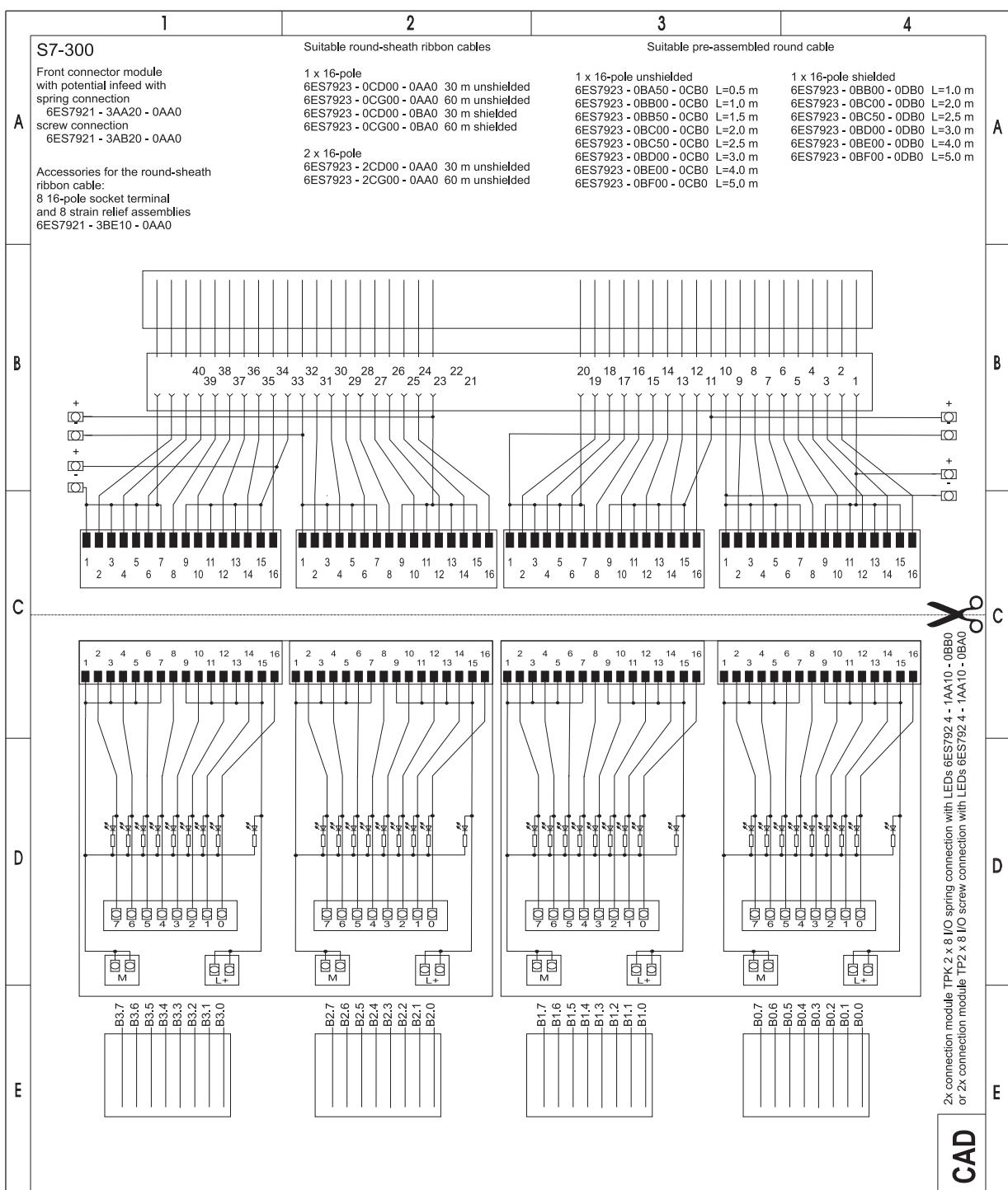
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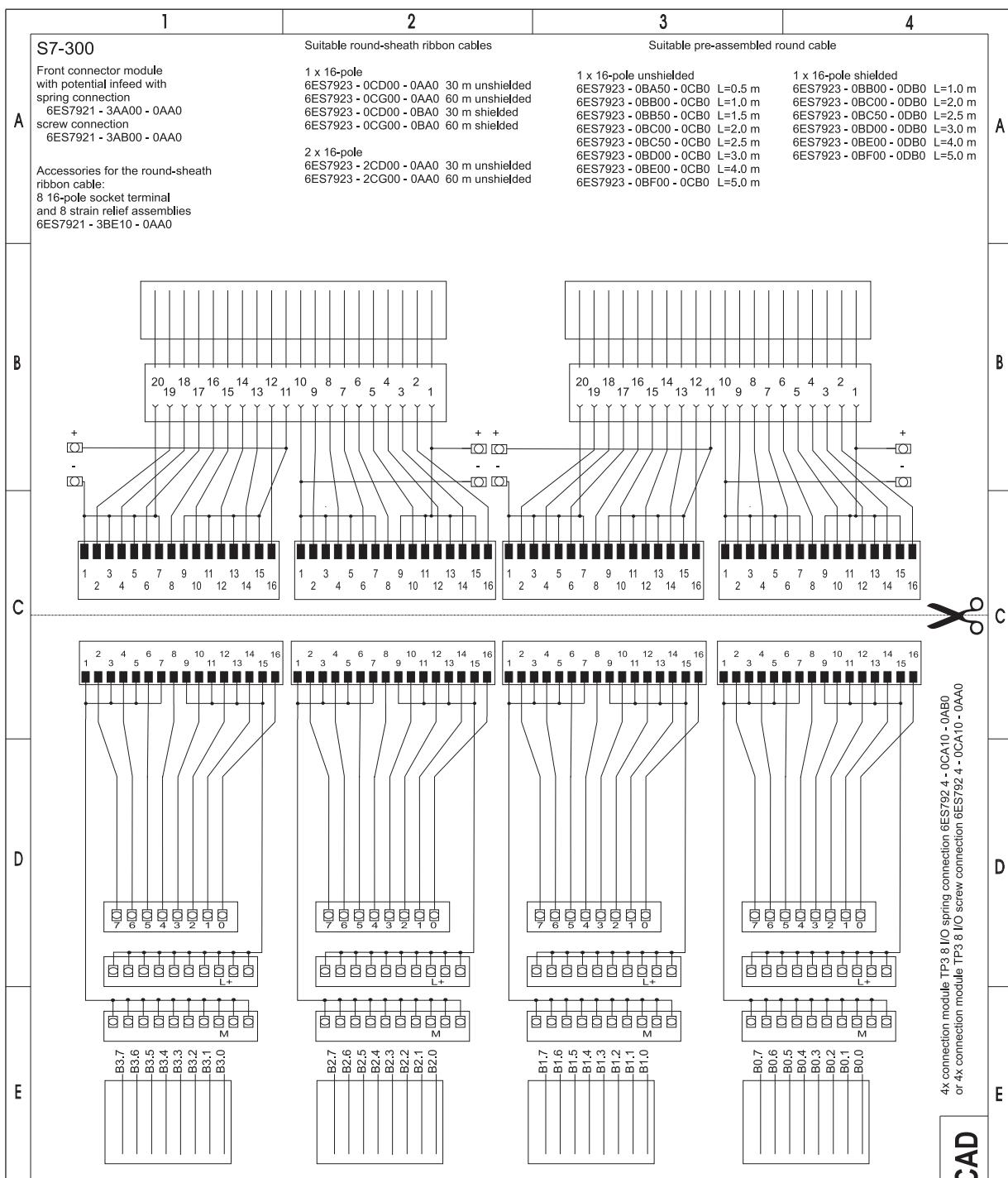
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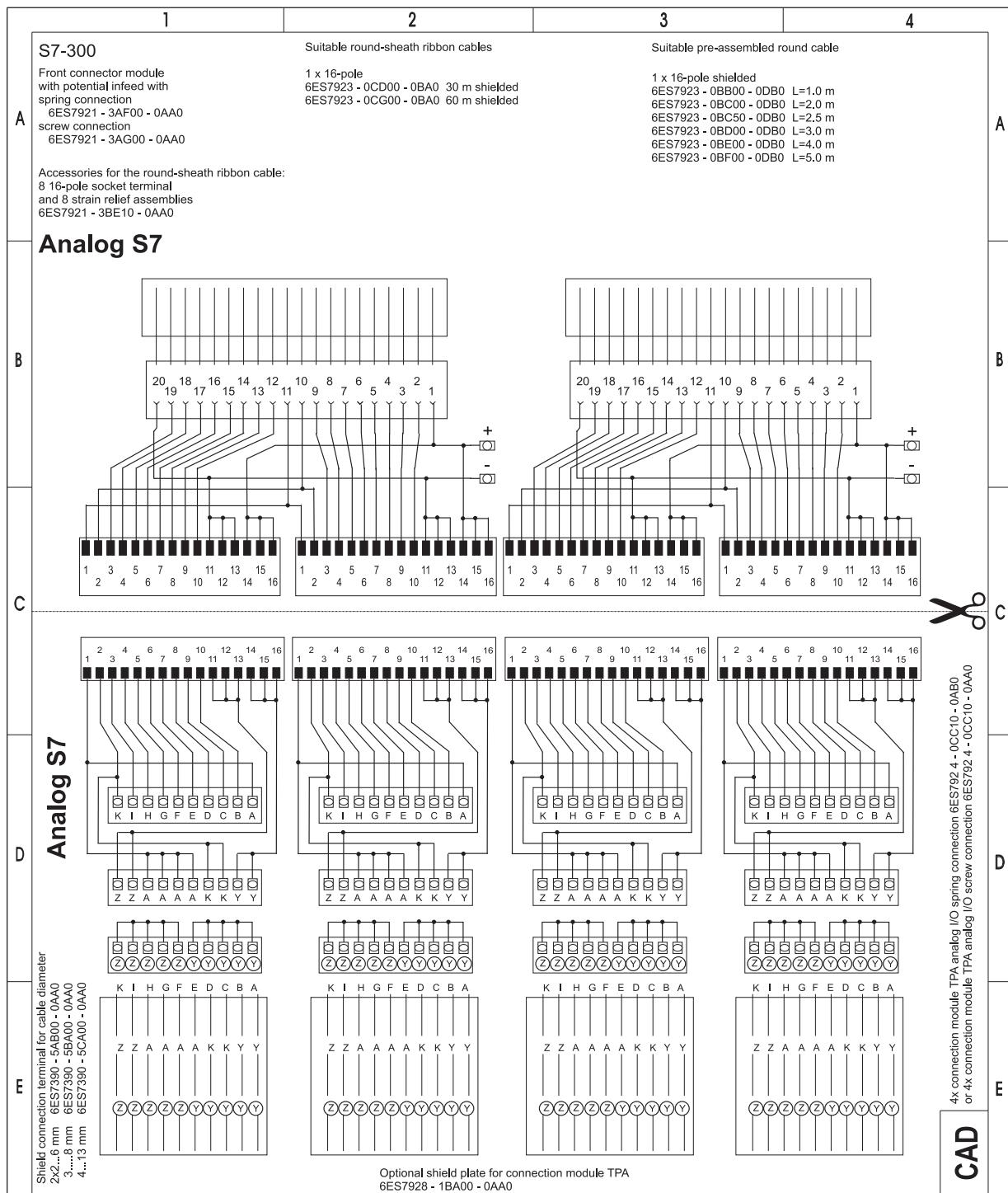
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	1	2	3	4
A	S7-300 Compact CPU 312 C	Suitable round-sheath ribbon cables	Suitable pre-assembled round cable	
Front connector module with potential infed with spring connection 6ES7921-3AJ20-0AA0	1 x 16-pole 6ES7923-0CD00-0AA0 30 m unshielded 6ES7923-0CG00-0AA0 60 m unshielded 6ES7923-0CD00-0BA0 30 m shielded 6ES7923-0CG00-0BA0 60 m shielded	1 x 16-pole unshielded 6ES7923-0BA50-0CB0 L=0.5 m 6ES7923-0BB00-0CB0 L=1.0 m 6ES7923-0BB50-0CB0 L=1.5 m 6ES7923-0BC00-0CB0 L=2.0 m 6ES7923-0BC50-0CB0 L=2.5 m 6ES7923-0BD00-0CB0 L=3.0 m 6ES7923-0BE00-0CB0 L=4.0 m 6ES7923-0BF00-0CB0 L=5.0 m	1 x 16-pole shielded 6ES7923-0BB00-0DB0 L=1.0 m 6ES7923-0BC00-0DB0 L=2.0 m 6ES7923-0BC50-0DB0 L=2.5 m 6ES7923-0BD00-0DB0 L=3.0 m 6ES7923-0BE00-0DB0 L=4.0 m 6ES7923-0BF00-0DB0 L=5.0 m	
Accessories for the round-sheath ribbon cable: 8 16-pole socket terminal and 8 strain relief assemblies 6ES7921-3BE10-0AA0	2 x 16-pole 6ES7923-2CD00-0AA0 30 m unshielded 6ES7923-2CG00-0AA0 60 m unshielded			
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4x connection module TP3.8 I/O spring connection with LEDs 6ES7924-0CA10-0BB0
or 4x connection module TP3.8 I/O screw connection with LEDs 6ES7924-0CA10-0BA0

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S7-300 Compact CPU 313C; 314C-2PtP; 314C-2DP

1	2	3	4
Front connector module with potential infed with spring connection 6ES7921 - 3AL20 - 0AA0	Suitable round-sheath ribbon cables 1 x 16-pole 6ES7923 - 0CD00 - 0AA0 30 m unshielded 6ES7923 - 0CG00 - 0AA0 60 m unshielded 6ES7923 - 0CD00 - 0BA0 30 m shielded 6ES7923 - 0CG00 - 0BA0 60 m shielded	Suitable pre-assembled round cable 1 x 16-pole unshielded 6ES7923 - 0BA50 - 0CB0 L=0,5 m 6ES7923 - 0BB00 - 0CB0 L=1,0 m 6ES7923 - 0BB50 - 0CB0 L=1,5 m 6ES7923 - 0BC00 - 0CB0 L=2,0 m 6ES7923 - 0BC50 - 0CB0 L=2,5 m 6ES7923 - 0BD00 - 0CB0 L=3,0 m 6ES7923 - 0BE00 - 0CB0 L=4,0 m 6ES7923 - 0BF00 - 0CB0 L=5,0 m	1 x 16-pole shielded 6ES7923 - 0BB00 - 0DB0 L=1,0 m 6ES7923 - 0BC00 - 0DB0 L=2,0 m 6ES7923 - 0BC50 - 0DB0 L=2,5 m 6ES7923 - 0BD00 - 0DB0 L=3,0 m 6ES7923 - 0BE00 - 0DB0 L=4,0 m 6ES7923 - 0BF00 - 0DB0 L=5,0 m
Accessories for the round-sheath ribbon cable: 8 16-pole socket terminal and 8 strain relief assemblies 6ES7921 - 3BE10 - 0AA0			

Digital section

Analog section

C

D

E

Digital connection module

B3.7	B3.6	B3.5	B3.4	B3.3	B3.2	B3.1	B3.0	M
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Analog connection module TPA

Z	Z	A	A	A	K	K	Y	Y
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Z	Z	Z	Z	Z	Y	Y	Y	Y
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CAD

2x connection module TPA analog I/O spring connection 6ES7924 - 0CC10 - 0AB0
or 2x connection module TPA analog I/O screw connection 6ES7924 - 0CC10 - 0AA0

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	1	2	3	4
A	S7-300 Front connector module with potential infeed with spring connection 6ES7921 - 3AF20 - 0AA0 screw connection 6ES7921 - 3AG20 - 0AA0 Accessories for the round-sheath ribbon cable: 8 16-pole socket terminal and 8 strain relief assemblies 6ES7921 - 3BE10 - 0AA0	Suitable round-sheath ribbon cables 1 x 16-pole 6ES7923 - OCD00 - OBA0 30 m shielded 6ES7923 - OCG00 - OBA0 60 m shielded	Suitable pre-assembled round cable 1 x 16-pole shielded 6ES7923 - OBB00 - ODB0 L=1,0 m 6ES7923 - OBC00 - ODB0 L=2,0 m 6ES7923 - OBC50 - ODB0 L=2,5 m 6ES7923 - OBD00 - ODB0 L=3,0 m 6ES7923 - OBE00 - ODB0 L=4,0 m 6ES7923 - OBF00 - ODB0 L=5,0 m	A
B	<p>Analog S7</p>			B
C				C
D	<p>Analog S7</p>			D
E	<p>Shield connection terminal for cable diameter 2,2...6 mm 6ES7390 - 5A000 - 0AA0 3,...8 mm 6ES7390 - 5B000 - 0AA0 4,...13 mm 6ES7390 - 5CA00 - 0AA0</p> <p>Optional shield plate for connection module TPA 6ES7928 - 1BA00 - 0AA0</p> <p>4x connection module TPA analog I/O spring connection 6ES7924 - OCC10 - OAB0 or 4x connection module TPA analog I/O screw connection 6ES7324 - OCC10 - OAA0</p> <p>CAD</p>			E
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