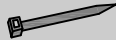
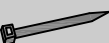


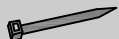
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Cable list

	Cable designation	Intended areas for cable routing																						Description	Fastening hardware			
		Side panels, right				Side panels, left					Access point cover, upper/lower					Base, left				Base, centre		Base, right						
		1	2	3	4	5	6	7	13	14	8	9	10	11	12	20	21	22	33	23	24	25	34				2.5x98 mm (0.098"x 3.858")	4.5x160 mm (0.177"x 6.299")
Access 1 at standard height	B0:1B01					x		x								x								Safety light barrier transmitter 1*	-	-	-	
	B0:1B02	x			x																	x		Safety light barrier receiver 1*	-	-	-	
	B0:1B03	x			x																	x		Safety light barrier transmitter 2*	-	-	-	
	B0:1B04					x		x								x								Safety light barrier receiver 2*	-	-	-	
	B0:1B05					x		x								x								Safety light barrier transmitter 3*	-	-	-	
	B0:1B06	x			x																	x		Safety light barrier receiver 3*	-	-	-	
	B0:1B07	x			x																	x		Safety light barrier transmitter 4*	-	-	-	
	B0:1B08					x		x								x								Safety light barrier receiver 4*	-	-	-	
	B0:1B01S					x													x					Safety light curtain transmitter array	-	-	-	
	B0:1B01E	x																					x	Safety light curtain receiver array	-	-	-	
	B1:1B1S			x											x						x	x		Light curtain barrier transmitter	-	-	4	
	B1:1B1E			x																	x	x		Light curtain barrier receiver	-	-	3	
	S8-52_X15:S8-59(61)_X15	x																						x	Operating panel (right)	-	-	-
						x													x						Operating panel (left)	-	-	-
	S8-52_X84:B20	x											x											x	Shelf in front access point	-	-	-
	S8-52_X59:B26					x							x							x					Shelf in front access point	-	-	-
	S8-52_X84:B21					x									x					x					Shelf in rear access point	-	-	4
	S8-52_X59:B27	x										x												x	Shelf in rear access point	-	-	4
	X1.0:Q2					x							x				x								Main switch	-	-	-
	X2.0:1S4	x											x											x	Emergency stop button	-	-	-
	X3:1S10	x																						x	Lighting	-	-	-
	X2.0:1S14	x																						x	Right door position switch	-	-	-
	X2.0:1S13					x														x					Left door position switch	-	-	-
	S8-52_X4:1S7-80_X4/1	x											x												LED strip in front of the access point	-	-	-
		x																							LED strip above the access point	-	-	-
	X9:S7-31	x											x												Requisition processing strip	-	-	-
	X4:1X10	x																						x	Power socket below the key panel (right)	-	-	-
						x														x					Power socket below the key panel (left)	-	-	-
	S8-59(61)_X13:DB9	x																						x	Multipoint connecting cable (TP right)	-	-	-
						x														x					Multipoint connecting cable (TP left)	-		
	S8-59(61)_X102: Ethernet socket for base (S8-76)	x																						(X)	Ethernet cable (right TP)	-	-	-
						x														x				x	Ethernet cable (left TP)			

	Cable designation	Intended areas for cable routing																								Description	Fastening hardware		
		Side panels, right				Side panels, left					Access point cover, upper/lower					Base, left				Base, centre		Base, right							
		1	2	3	4	5	6	7	13	14	8	9	10	11	12	20	21	22	33	23	24	25	34				2.5x98 mm (0.098"x 3.858")	4.5x160 mm (0.177"x 6.299")	
Access 1 at a special height	B0:1B01					x		x				x													Safety light barrier transmitter 1*	-	-	-	
	B0:1B02	x			x							x													Safety light barrier receiver 1*	-	-	-	
	B0:1B03	x			x							x													Safety light barrier transmitter 2*	-	-	-	
	B0:1B04					x		x				x													Safety light barrier receiver 2*	-	-	-	
	B0:1B05					x		x				x													Safety light barrier transmitter 3*	-	-	-	
	B0:1B06	x			x							x													Safety light barrier receiver 3*	-	-	-	
	B0:1B07	x			x							x													Safety light barrier transmitter 4*	-	-	-	
	B0:1B08					x		x				x													Safety light barrier receiver 4*	-	-	-	
	B0:1B01S					x																			Safety light curtain transmitter array	-	-	-	
	B0:1B01E	x																							Safety light curtain receiver array	-	-	-	
	B1:1B1S			x									x		x										Light curtain barrier transmitter	-	-	4	
	B1:1B1E			x									x												Light curtain barrier receiver	-	-	3	
	S8-52_X15:S8-59(61)_X15	x										x													Operating panel (right)	-	-	-	
							x					x													Operating panel (left)	-	-	-	
	S8-19_X65:B20											x		x											Shelf in front access point	-	-	-	
	S8-19_X65:B26													x	x										Shelf in front access point	-	-	-	
	S8-19_X65:B21													x	x										Shelf in rear access point	-	-	4	
	S8-19_X65:B27											x		x											Shelf in rear access point	-	-	4	
	S8-52_X80:S8-19/11_X80A	x											x												Expansion board connection	-	-	-	
	X2.0:X2.1	x												x											Control line	-	-	-	
	X1.0:Q2						x						x				x								Main switch	-	-	-	
	X2.0:1S4												x												Emergency stop button	-	-	-	
	X3:1S10	x																							Lighting	-	-	-	
	X2.0:1S14	x											x												Right door position switch	-	-	-	
	X2.0:1S13						x						x												Left door position switch	-	-	-	
	S8-52_X4:1S7-80_X4/1												x												LED strip in front of the access point	-	-	-	
							x						x												LED strip above the access point	-	-	-	
	X9:S7-31	x											x												Requisition processing strip	-	-	-	
	X4:1X10	x																						x	Power socket below the key panel (right)	-	-	-	
							x													x					Power socket below the key panel (left)	-	-	-	
	S8-59(61)_X13:DB9	x											x											x	Multipoint connecting cable (TP right)	-	-	-	
		x											x											x	Multipoint connecting cable (TP left)	-	-	-	
	S8-59(61)_X102: Ethernet socket for base (S8-76)	x											x											(X)	Ethernet cable (right TP)	-	-	-	
		x											x											(X)	Ethernet cable (left TP)	-	-	-	

h	Typ Pos. 32	08.05.17	rep	HÄNEL		Installation Instructions		Cable Routing Diagram Version with One Access Point		\inst\CABLELL1.en.odt Seite 2 / 6 Lean-Lift CABLELL1.en.odt	
g	Ethernetkabel hinzu	20.10.16	rep								
f	EcoDrive, Pos. 33+34 hinzu	11.07.12	rep	Datum	02.10.06						
e	nB26 / nB27, Textänderung	14.10.10	rep	Bearb.							
d	Sonderhöhe ohne Kabelkanal	05.02.10	rep								
Zust.	Änderung	Datum	Name	Norm		Urpr.	Ers.f				

	Cable designation	Intended areas for cable routing																						Description	Fastening hardware			
		Side panels, right				Side panels, left					Access point cover, upper/lower					Base, left				Base, centre		Base, right						
		1	2	3	4	5	6	7	13	14	8	9	10	11	12	20	21	22	33	23	24	25	34		2.5x98 mm (0.098"x 3.858")	4.5x160 mm (0.177"x 6.299")		
Motor/extractor	S8-52_X87:S8-17_X87																			x	x	x		Extractor control line, spiral cable	-	6	-	
																		x				x	x		Extractor control line, ribbon cable (left)	-	6	-
																						x	x		Extractor control line, ribbon cable (right)	-	6	-
	Ethernet connection socket base	x																							when attaching keyboard on the right	-	-	-
							x													x				x	when attaching keyboard on the left	-	-	-
	X0:X1.0															x	x	x							Mains power supply line	-	5	-
	X1.0:M1																x	x							Vertical motor power cable (left)	-	7	-
																	x						x		Vertical motor power cable (right)	-	7	-
	X1.0-X2.0:M1																x	x							Brake, vertical motor thermosensor (left)	-	-	-
																	x						x		Brake, vertical motor thermosensor (right)	-	-	-
	X1.0-X2.0:M2																x				x	x			Horizontal motor spiral cable	-	-	-
																	x	x							Horizontal motor ribbon cable (left)	-	-	-
																	x	x					x		Horizontal motor ribbon cable (right)	-	-	-
	X2.0:S2																x								Lower safety switch (left)	-	1	-
																							x	x	Lower safety switch (right)	-	1	-
X2.0:S3																x	x							Service door switch, left	2	-	-	
X2.0:S3 (S30)																						x	x	Service door switch, right	2	-	-	
Cable loom, drawer right/left																									-	20	-	

*) In standard lifts, safety light barriers were replaced by the safety light curtain beginning in manufacturing week 21/2008.

Cable routing area, side panels / access at access point at standard height

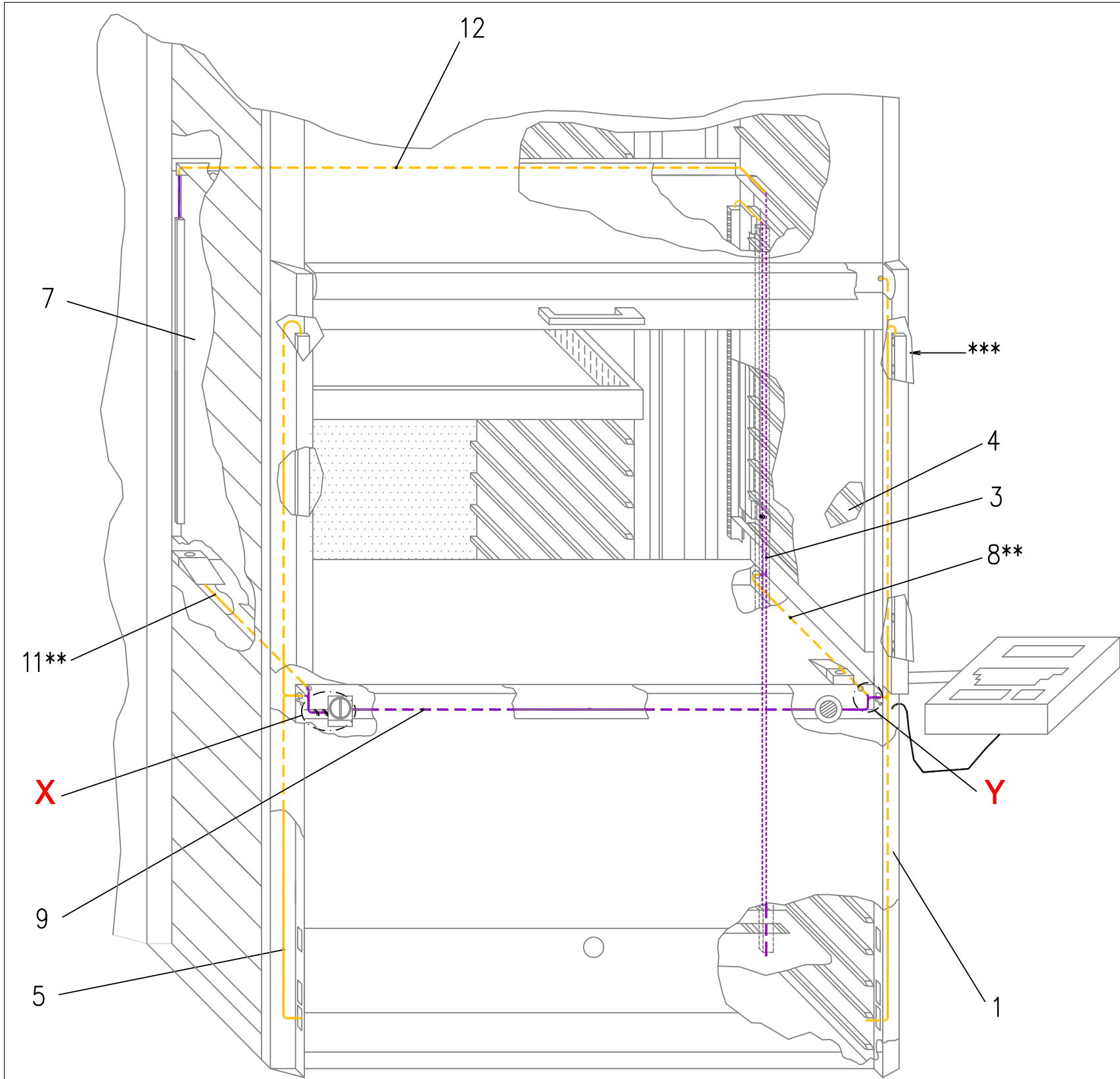


Fig. 1: Cable routing area, side panels / access at access point at standard height

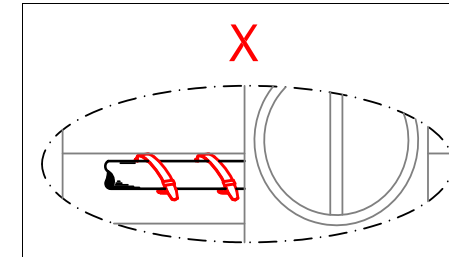


Fig. 2: Detail X

For the version with transporter, fasten the cable in the area of the locking levers using cable ties through the holes in the rear area of the front panel reinforcement.

Item	Description
1	Cover strip, right
3	Cable duct, 15x15 mm (0.591"x0.591")
4	Inside right side panel
5	Left cover strip in front of rectangular tube
7	Inside left side panel
8	Below right worktop
9	Cable duct in top front panel
11	Below left worktop
12	Upper rear access point cover
**)	In these areas, cables are fastened using adhesive clips. Clearance: Maximum of 40 cm (15.748") Caution: The substrate must be free of dust and grease.
***)	For lifts with lift run with closed, manually operated door (see installation instructions "LL-ZUHAL"), the safety light curtain is omitted.

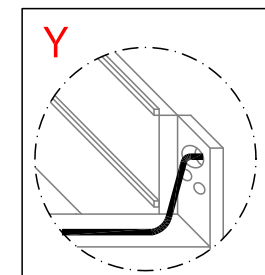


Fig. 3: Detail Y



For cable bushings, ensure that no sharp edges are present.

h	Typ Pos. 32	08.05.17	rep			
g	Ethernetkabel hinzu	20.10.16	rep			
f	EcoDrive, Pos. 33+34 hinzu	11.07.12	rep	Datum	02.10.06	
e	nB26 / nB27, Textänderung	14.10.10	rep	Bearb.		
d	Sonderhöhe ohne Kabelkanal	05.02.10	rep			
Zust.	Änderung	Datum	Name	Norm		

Urr.
Ers.f

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Installation Instructions

Cable Routing Diagram

Version with One Access Point

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A diagram of a ship's hull cross-section. A red 'X' is placed over the stern area, indicating a common location for a hull breach.

For the version with transporter, fasten the cable in the area of the locking levers using cable ties through the holes in the rear area of the front panel reinforcement.



For cable bushings, ensure that no sharp edges are present.

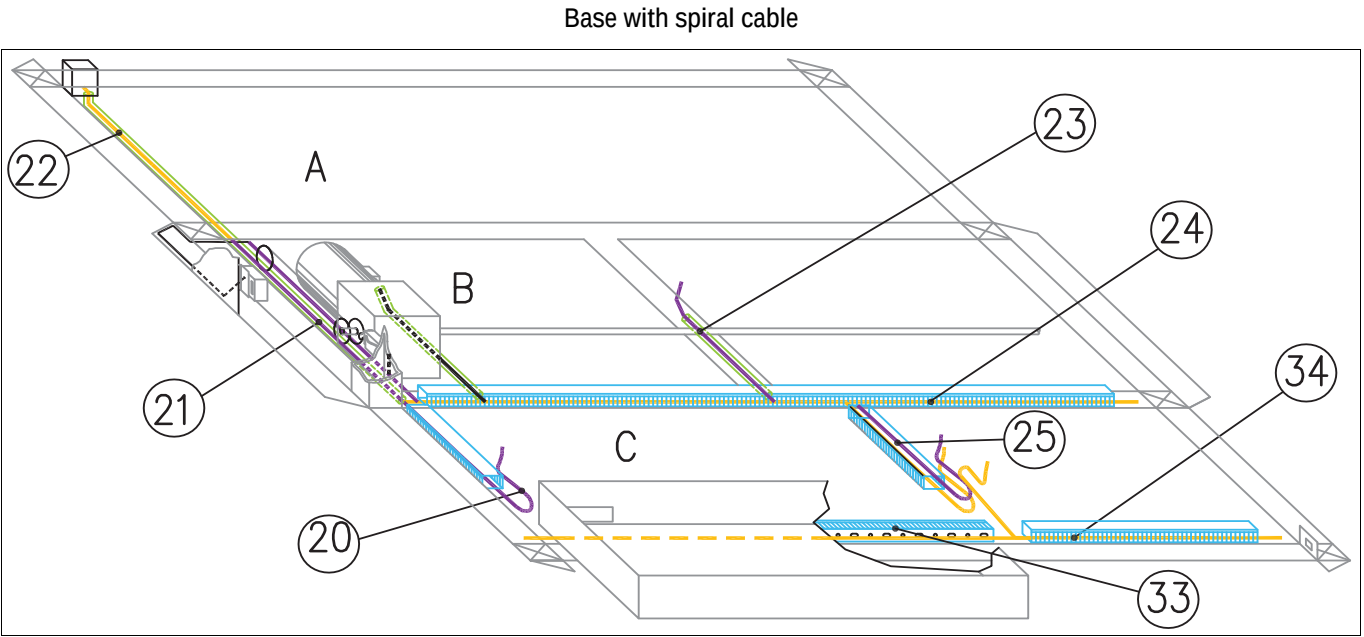


Fig. 7: Cable routing area, base with spiral cable

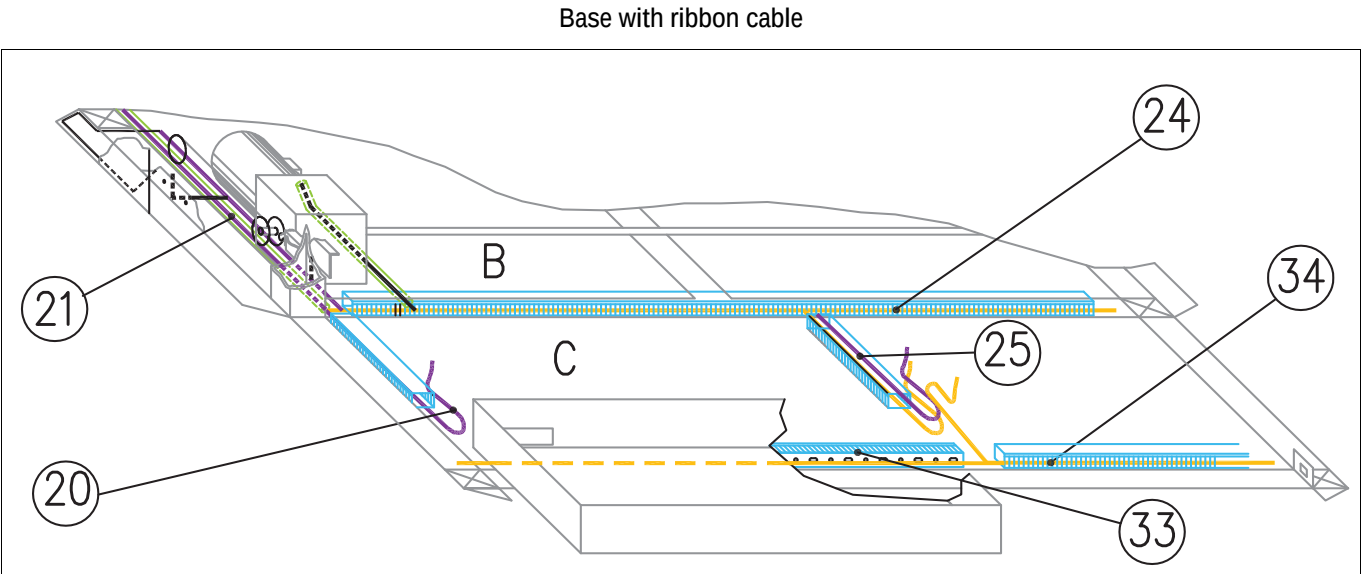


Fig. 10: Cable routing area, base with ribbon cable

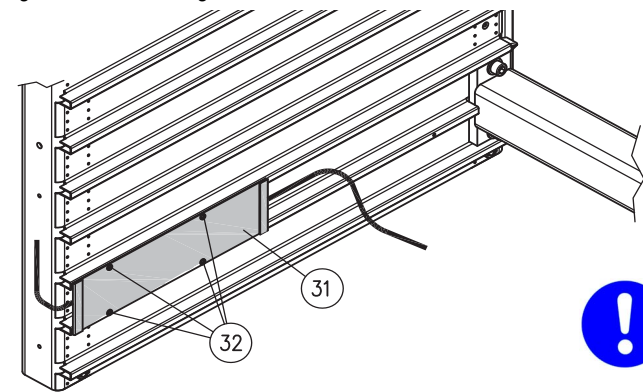


Fig. 12: Cable routing area with EcoDrive



In the case of an LL with EcoDrive, route the cables that enter the footwell from the left cover strip in front of the rectangular tube (item 5) towards the rear into the second carrier. Use four screws (item 31) to install the cable cover plate (item 32) level with the upper step on the left side wall to protect the cable.

Cable cover plate for LL with EcoDrive	
Item	Description
31	Cable cover plate
32	Countersunk sheet-metal screws DIN 7982/ ISO 7050 St 4.8x13 (4x)

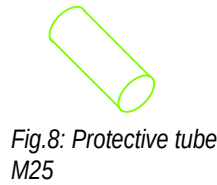


Fig. 8: Protective tube
M25

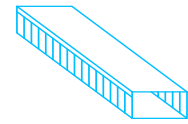


Fig. 9: Cable duct

Power cables are routed in the protective tube.
See Fig. 7, 10

Installing the cable ducts:
See Fig. 7, Fig. 10 and installation instructions

Item	Description
20	Main frame, left cross-tie in cable duct 40x60 mm (1.575" x 2.362")
21	Main frame, left cross-tie
22	Main frame, left cross-tie
23	Main frame, connection of cross-ties
24	Main frame, centre cross-member in cable duct 40x60 mm (1.575" x 2.362")
25	Right wiring cabinet output, back: cable duct 40x60 mm (1.575"x2.362")
33	Main frame, front cross-member in cable duct 60x25 (2.362"x0.984") (with EcoDrive installed in turned position!)
34	Main frame, front cross-member in cable duct 60x25 (2.362"x0.984") (only for lift width > 1300)
A	Rear storage area
B	Drive shaft
C	Front storage area



Caution:
Data lines such as multipoint, RS-232, proximity switch and light barrier cables should, whenever possible, not be routed together with power cables.

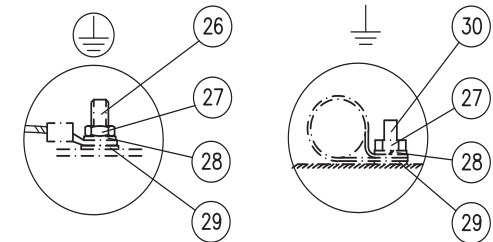


Fig. 11: Earth wire connection and shielding in
electrical drawer

Item	Description
26	Earthing bolt
27	Brass nut DIN 934 /ISO 4032-M4
28	Spring washer DIN 127-A4
29	Brass washer DIN 125 /ISO 7089-A4
30	Earthing bolts

h	Typ Pos. 32	08.05.17	rep				
g	Ethernetkabel hinzu	20.10.16	rep				
f	EcoDrive, Pos. 33+34 hinzu	11.07.12	rep	Datum	02.10.06		
e	nB26 / nB27, Textänderung	14.10.10	rep	Bearb.			
d	Sonderhöhe ohne Kabelkanal	05.02.10	rep				
Zust.	Änderung	Datum	Name	Norm		Urpr.	Ers.f

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