

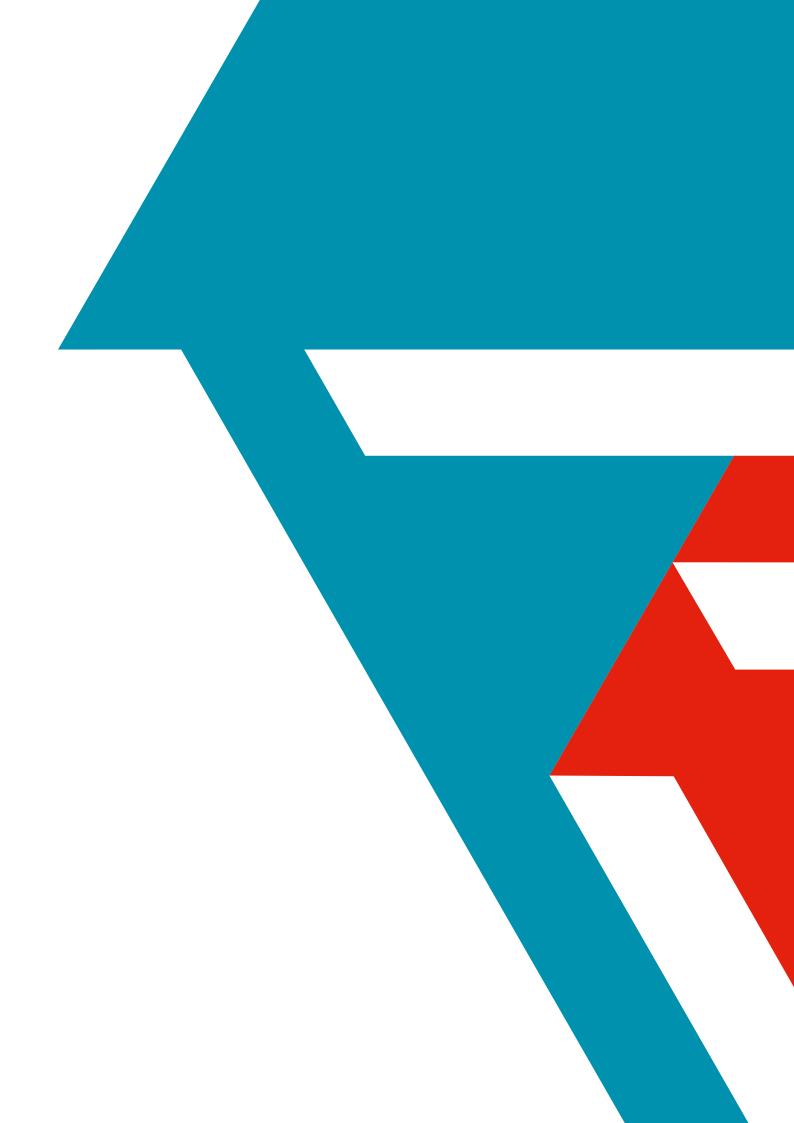


ELEVATOR CABLING SYSTEMS

Power and data for modern elevators



TRADITION • INNOVATION • PASSION



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FLAT CABLES

Product survey and selection criteria for Datwyler elevator cables	
Datwyler module concept	
Elevator suspension cables – PVC	
Module concept – PVC	

ACCESSORIES

Suspension devices Installation tools

SHAFT CABLING SYSTEMS

Shaft lighting	system
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INFORMATION

Harnessing Logistics

DELIVERING EXCELLENCE – EVERY TIME, EVERYWHERE

The "lifeblood" of a modern public or commercial building is the functionality and reliability of the system solutions for communications, building automation, power supply, safety and elevator. This is true of any such construction, irrespective of whether it is an office block, hotel, sports stadium, television studio or a tunnel. Choose a reliable system partner right from the start: choose Datwyler!



Hotels, hospitals



Office blocks



Government buildings, universities



Shopping centres

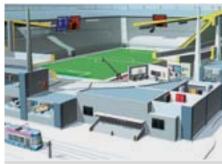


Data centres

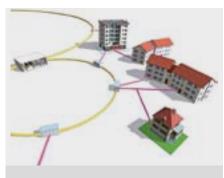


Tunnels





Event arenas



FTTx projects

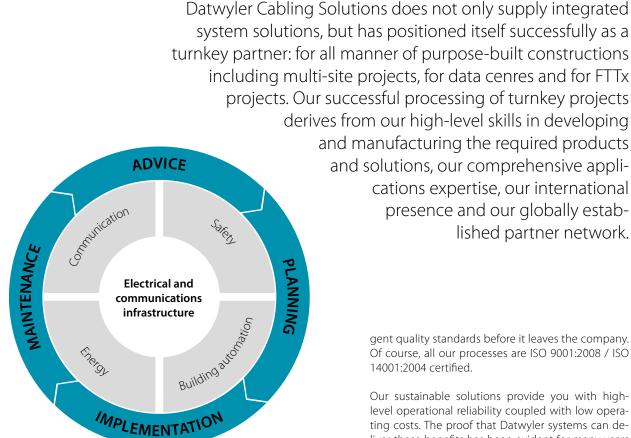
Datwyler Cabling Solutions is a leading provider of total solutions for the electrical and communications infrastructure of public and commercial buildings and of data centres as well as for Fibre to the home (FTTH) networks.

Being a solid, reliable company about to celebrate its 100th year of operation, Datwyler leads the way in innovations for applications such as ICT networks, power supply, fire safety, building automation and elevators.

Datwyler is a one-stop source of customised solutions for all your specific applications – with all the necessary test certificates, authorisations and approvals and with long-term warranties.

Datwyler has successfully acted not only as a supplier of innovative products and system solutions but also as the lead or main contractor who, working in close cooperation with local partners, covers the whole value chain: from site surveys, conception and system engineering through installation, logistics and turnkey supply to documentation and system maintenance.

TURNKEY INSTALLATIONS



Our international presence and our worldwide, actively managed and certificated partner network have also proved invaluable in the multi-site projects of major clients. National and international companies rely on Datwyler on-the-spot site audits. Using the site surveys as a base, our engineering experts work out customised solutions with uniform standards for all the sites concerned. Our total solutions package is rounded off by the implementation and assurance of regular operations. While operations are running, we provide servicing and maintenance work to optimise your infrastructure solution. These MAC (move, add, change) services increase the performance and working life of your equipment.

High-quality solutions for all your applications

Year on year, Datwyler invests in even better materials and process technologies, production resources and test methods. This is why our system solutions always keep ahead of the current norms and repeatedly set new standards. The important functions which our solutions must deliver in practice demand the highest possible level of safety and reliability. This is why we measure each product against strinlevel operational reliability coupled with highlevel operational reliability coupled with low operating costs. The proof that Datwyler systems can deliver these benefits has been evident for many years in thousands of installations around the world. In addition, we have a particularly keen eye for consistent, intelligent solutions that simplify planning, sourcing and installation and shorten your construction times.

We have the solutions for all your applications, whatever they are – high-speed communications networks, modern energy distribution, monitoring and control services, fire alarm systems or lift cabling.

Or you may want to integrate new systems, interconnect and automate existing systems or simply ensure a reliable power supply. All this is possible with our carefully thought out, pre-assembled and prefabricated subsystems.

Just tell us how, when and where

Besides quality and product price, the logistics performance capability of suppliers is a decisive factor in the successful handling of construction projects. This is particularly true of major projects. With its years of experience and high logistics competences, Datwyler can handle even time-critical major projects smoothly and to the complete satisfaction of customers. Just-in-time deliveries at the right place are all in a day's work for us and our partners.

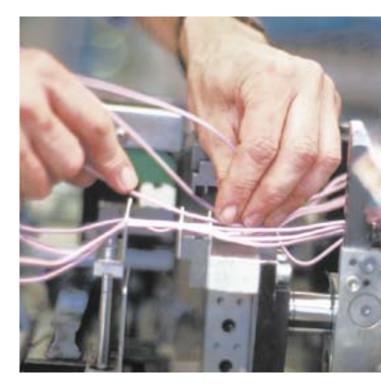


Besides delivering straight to the construction site, we also offer additional logistics services (time slots, prefitted and pre-assembled products etc.). Many customers and suppliers have a direct link to our IT system for rapid and flexible order processing.

As regards cable pre-assembly, Datwyler also has wide-ranging expertise, the product of decades of experience. In our modern cable cutting centre, the engineering department passes the cutting orders electronically without any media discontinuity straight to the production area. Our efficient order communication system with all our customers is due to years of experience with B2B interfaces.

In many countries Datwyler works in close co-operation with independent distribution partners. Thus, our customers can rely on the consistently high quality standard of all Datwyler products and solutions whilst benefiting from local contacts and logistics services.

We support you in realising your infrastructure project – reliably, capably, complete and with the highest quality!



ELEVATOR CABLING SYSTEMS



Unnoticed by elevator passengers, elevator cables from Datwyler Cabling Solutions do their job around the world every day. They reliably transfer power and data between the elevator cabin and the control system. Withstanding great mechanical stress, they provide faultless operation round the clock. No wonder Datwyler elevator cables are installed in the fastest elevators and the highest buildings in the world. Space in cities is limited. High-rises are being erected around the globe. Elevators with ever greater performance are providing rapid access to the upper floors of these tall buildings. And so the requirements for the materials used are becoming increasingly tougher. As a leading manufacturer of elevator cable systems, Datwyler knows the needs. Not only international standards must be met, but knowledge of customers' specific needs is essential. Our reliable elevator cable systems are known for smooth operation that adds significant comfort to the ride.

Leading know-how

Using various test methods, some of which were developed by Datwyler, we produce elevator cables for service under the toughest conditions. Our specialists define materials and designs that even under permanent dynamic loading show no signs of fatigue. We also offer halogen-free materials for special fire safety concepts.

Spinnaker Tower, Portsmouth

Selected reference projects

Shanghai Oriental Pearl Tower	Shanghai	Post Tower, German Post headquarters	Bonn
Canary Wharf	London	Torre Major	Mexiko City
Capital Towers	Dubai	Spinnaker Tower	Portsmouth
New World Trade Center	New York		

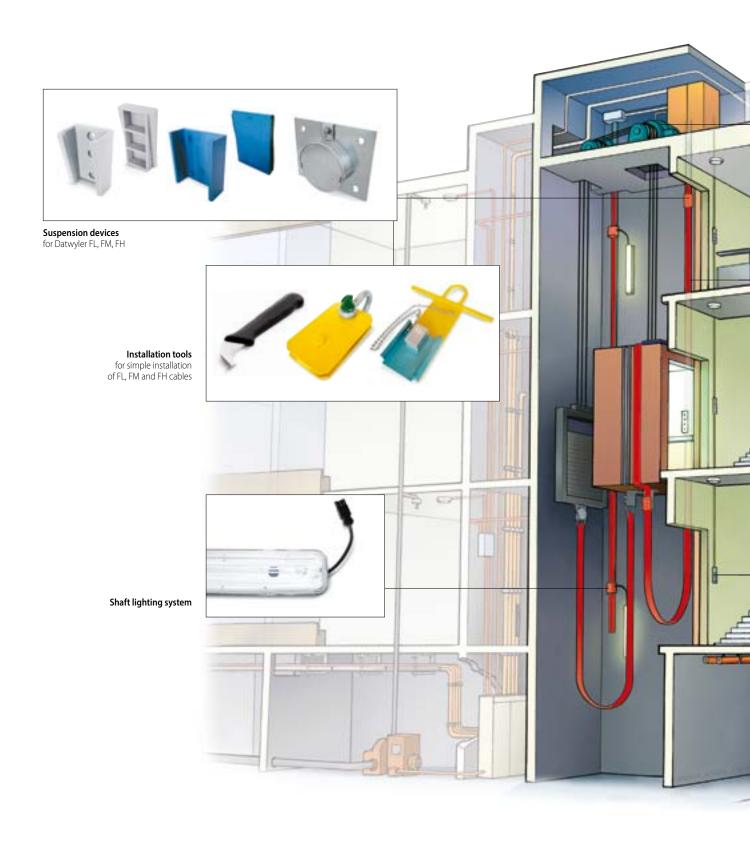
Diverse applications

Datwyler elevator cable systems meet every requirement for electrical connections to the elevator cabin. Aside from power cables, high-quality data cables are being increasingly requested. Integral fibre optic cable can easily handle large volumes of data. These modern system solutions connect the elevator cabin to the controls and to the local data network – so passengers can enjoy television and video services in the elevator.

Customer value in focus

Datwyler has developed innovative solutions for all current needs. Comprehensive harnessing and logistics services with modern B2B connectivity round off the service offering.

PRODUCT OVERVIEW





QUALITY FROM FIRST TO LAST MILLIMETER

Datwyler flat elevator cable a pioneering achievement



Buildings are reaching up to the sky all around the globe. More and more people and goods must be transported faster, more comfortably and more safely in elevators. The "electronic revolution" during the past 30 years has also set entirely new standards in elevator construction. Video cameras monitor the elevator cars. Telephones provide connection with the building service and passengers are accompanied by music on their ascent or descent. What was once futuristic is now reality.

Consequently, modern elevators throughout the world are inconceivable today without well-devised electronic control systems, combined with an absolutely reliable and fault-free signal transmission and energy supply. Datwyler began addressing these requirements many years ago, and since then has clearly signalled the intention to lead the way.

It was always the aim to produce a cable which – with respect to mobility, safety, durability and silent running – was superior to any round cable and satisfied the high technical demands of elevator manufacturers. This has been achieved by the elevator cable specialists at Datwyler in close collaboration with leading elevator manufacturers. A range of flat elevator cables suitable for these applications has meanwhile been produced and proven in practice, backed by pioneering spirit, ambition and intensive research.

More security thanks to Datwyler flat cables

The unique cable design, the careful choice of high-grade raw materials, the absolutely precise workmanship with the latest production systems and the strict internal quality control guarantee Datwyler flat cable a long and trouble-free service life. This also applies to the appropriate suspension devices, fixing material and accessories. Datwyler is therefore making a decisive contribution towards the security of the entire elevator system, both in PVC as well as in zero-halogen designs.

Complete cable systems for all elevator shaft heights

Whether simple standard cables or cables with integral data, telephone and video components: Datwyler flat cables are just as versatile and efficient in elevator shafts up to 80 m high as in those up to 150 m or 400 m. In addition, all cable types can be installed very easily and quickly with the appropriate suspension devices, fixing material and accessories. The decisive factors for installation are primarily the type of cable, height of elevator shaft and free suspension length:

Cable type	Shaft he	eight	Free suspension length	Speed
FL	up to	80 m	maximum 45 m	4 ^m / _s
FM	up to	150 m	maximum 80 m	6.3 ^m /s
FH	up to	400 m	maximum 220 m	12 ^m /s

In parallel with the development and manufacturing of elevator cables, Datwyler has also played an active role in other fields of cable production: from power supply and safety cables to data cables (copper and fibre optics). In other words: know-how which will certainly benefit you as an elevator manufacturer, particularly where the total electrical package in the elevator shaft is concerned.

High quality standards

Quality cannot be dictated. Quality can only be achieved by the commitment of employees with a sense of responsibility. Datwyler has done its utmost for many years to encourage this commitment.

Year on year, Datwyler invests in even better materials and process technologies, production resources and test methods. This is why our products and system solutions always keep ahead of the current norms and repeatedly set new standards.

The important functions which our solutions must deliver in practice demand the highest possible level of safety and reliability. This is why we measure each product against stringent quality standards before it leaves the company. Of course, our management system is ISO 9001 / ISO 14001 / BS 18001 certified. Our workforce accepts that we operate a no-compromise quality policy, which is in itself a warranty undertaking towards our customers.

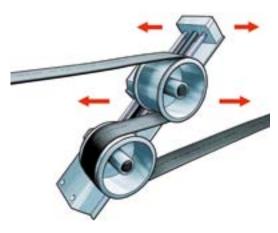
In addition to general quality assurance Datwyler flat cables are subjected to additional test procedures specific to the application. For these testing procedures Datwyler has developed a whole series of high precision testing systems with the support of qualified specialists which make an exhaustive check of every type of cable. In this way we can ensure that our products comply with the high demands of our customers, with no "ifs" and "buts".

You need high-quality system solutions designed right from the start to handle the changing needs of users and future technical developments thereby guaranteeing they will have a long useful working life. Our sustainable solutions provide you with high-level operational reliability coupled with low operating costs. The proof that Datwyler systems can deliver these benefits has been evident for many years in hundreds of installations around the world.



Check of dimensions in accordance with EN 60811

This test checks adherence to the wall thicknesses and external dimensions of the cable sheath required by the standard. Measurement is made on the basis of digital picture processing. The sheath profile of flat cables is identified, analysed and measured.



Alternating flexing test in accordance with EN 50214, HD 21.2

This test checks the flexibility of the elevator cable. The cable is moved back and forth over two metal pulleys within a section of one metre. The transmission capability of the conductors is tested electronically throughout the entire duration of the test.

PRODUCT FEATURES

The following pictograms show the essential features of our products and give an easy reference to their performance in case of fire.

They are allocated to the articles on the data sheets and provide you with a quick overview

\varkappa	Zero halogen, non corrosive gases	Cables are halogen-free and reduce possible damage to health or material to a minimum.	IEC 60754-1 and IEC 60754-2, EN 50267-2-1, EN 50267-2-2, EN 50267-2-3 VDE 0482-267 part 2-1, 2-2 and 2-3
7	Flame propagation	Cables use a high-performance, flame retardant material that is self-extinguishing.	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
	Flame spread	Cables are flame resistant and prevent the propagation of a fire from one location to another	IEC 60332-3-22 to 25 cat. A-D, EN 60332-3-22 bis 25 cat. A-D, VDE 0482-332-3-22 to 25 cat. A-D
X	Smoke density	Cables emit minimum smoke in the event of fire. Exit routes and fire brigade access are not restricted.	IEC 61034-1 and IEC 61034-2, EN 61034-1 and EN 61034-2, VDE 0482-1034 part 1 and 2

Environmentally-friendly materials

The insulation and sheathing material of Datwyler low fire hazard elevator cables contain no PVC and can therefore be disposed of safely. In this way Datwyler Cabling Solutions makes a significant contribution towards a cleaner and safer environment.

THE MOST IMPORTANT TEST **PROCEDURES AND THEIR FUNCTIONS**

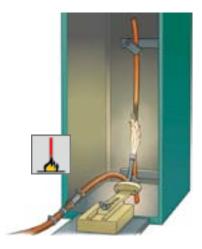


Test on gases evolved during combustion

This test procedure provides information if the insulation material of the cable sheath creates corrosive gases in the event of fire.

Halogen parts or other material in small quantities Standards can be easily identified with this test due to the strong - IEC 60754-1 and IEC 60754-2 change of pH and conductivity. The conductivity is < 10mS/mm

- EN 50267-2-1, EN 50267-2-2
- EN 50267-2-3
- VDE 0482-267 part 2-1, 2-2 and 2-3



Test for vertical flame propagation (single insulated wire or cable)

This test method tests a cable sample (length: 60 cm) for burning behaviour.

The flame must extinguish itself, and the burn damage must not reach the upper end of the cable sample.

Standards - IEC 60332-1-2 - EN 60332-1-2 - VDE 0482-332-1-2

Test for vertical flame spread (bunched wires or cables)

This test method tests a cable bundle (length: 360 cm) with regard to fire propagation.

The flames must extinguish themselves, and burn damage must not exceed a defined height.

Standards

- IEC 60332-3-22 up to 25 Cat A-D
- EN 60332-3-22 up to 25 Cat. A-D
- VDE 0482-332-3-22 up to 25 Cat. A-D





Measurement of smoke density

This test checks smoke development when burning the cable or the impairment of the visibility by burning cables.

The reduction in light transparency is measured in a standard chamber.

Standards

- IEC 61034-1 and IEC 61034-2
- EN 61034-1 and EN 61034-2
- VDE 0482-1034 part 1 and 2

ELEVATOR TRAVELLING CABLES Product overview and selection criteria for Datwyler elevator cables

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48783	6777-F		9																								4
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73814 67019 67567 73809 91032 FM – PV 65342 65344 55879 66618 66505 55425 76877 66612 77690 67088 68190 67018 68191 82058 85217 68185 92360	8606-F 8548-F 8216-F 8447-F 8580-F 8580-F 8867-F 6599-F 6599-F 7770-F 6599-F 7770-F 6599-F 7757-F 6900-F 7750-F 8666-F 7757-F 8483-F 8210-F 8210-F 820-F 8210-F 8210-F 820-F 8210-F 8507-F 8854/3-H	20 24 24	14 rise 18 24 4 6 12 12 16 16	2 - su 6 6 4 4 2 4 4	ppor	ted -		to 1		8 sha sha 8 8 8 8 8 8 8 8 12	fthe		1 3				2					2	4		1 1 2 2	age 2	



Accessories

Flat cables

ELEVATOR TRAVELLING CABLES Product overview and selection criteria for Datwyler elevator cables

		Cont	trol co	ores			Data	elen	nents	(see	page	36/37	')															
							16 7702 flex 4P	7954/2-F	7345-F	6651-F	6651/2-F	7067/2-F *	7954/2-F	6651/3-H	6651-F	6651/2-F	6651/3-F	7067/2-F *	7954/2-F	8607-F	6347/2-F	6347/3-F	8504-F	GF-2314	GF-2314	HF-2122-F	HF-2123-F	
Article no. Type			8: imensi			2.50	4 x 2 x AWG 26	2×0.25	2 x 0.34	2 × 0.50	2 × 0.50	2 x 0.50	2 x 0.50	2 x 0.50	2 x 0.75	2 x 0.75	2 x 0.75	4 x 0.25	4 x 0.25	4 x 0.34	4 x 0.50	4 x 0.50	4 x 0.50	G50/125	G62.5/125	CK 75 Ω	CX 75 Ω	Standards
FH – PVC flat of 157219 7877 185284 7877 161448 8292 176846 8490 184645 8846 192528 8893	7-F 7-F 2-F 0-F 5-F	40 60 40 12	30 30	– su	рроі	rtea	– up	104		n sna		eign				20	2				2					p	age 2	(4/25 () () () () () () () () () () () () ()
FH Module Cor	ncept – F	PVC	flat o	able	2 – 2	supp	orte	d – ı	ıp to	400	m sl	naft l	heig	ht												p	age 2	6/27
184646 8847 185372 8847 177860 8687 187125 8847 186276 8855 187102 8687 188337 8686 192527 8892	7-F 7-F 7-F 3-F 7-F 0-F	24	16 18 40 16 30 30 20 6	7	12	5 10 5 5 10 20					8					4 12 4 8 4				3		3		2	2 2 4			
FL – Low Fire I	Hazard –	uns	supp	orte	d – 1	up to	o 80 i	n sh	aft h	eigh	nt															р	age 2	8/29
191110 8511 191111 8636 185125 8511 191112 8511 191112 8511 182205 8827 191113 8582 190491 8582	5-F 1-F 1-F 7-F 2-F	12 12 18 24	14 24	2		3			4	3					3												 1 1	
FM – Low Fire	Hazard -	– su	ppor	ted	– up	to 1	50 n	n sha	aft h	eigh	t															р	age 3	0/31
185127 8622 185124 8696 184674 8849 191094 8872	5-F 9-F		12 12 14			3				12 4										1							1	
FH – Low Fire	Hazard -	- su	opor	ted ·	– up	to 4	00 m	ı sha	ift he	eight	:															р	age 3	2/33
185126 8585 192313 8880		12	30												24					1							1	ं
FH Module Cor	ncept – l	Low	Fire	Haza	ard -	- up	to 40)0 m	sha	ft he	ight															p	age 3	4/35
191114 8855 191483 8866 192314 8881 192236 8835 192342 8866	5-F 1-F 9-F	24 42	30 6 6	7	12	10 20 35					7					12 12						3		4 4 6	2			
				Star	ndarc	ls:			•		N 502 S ⊂ 34																	
* unshielded																												

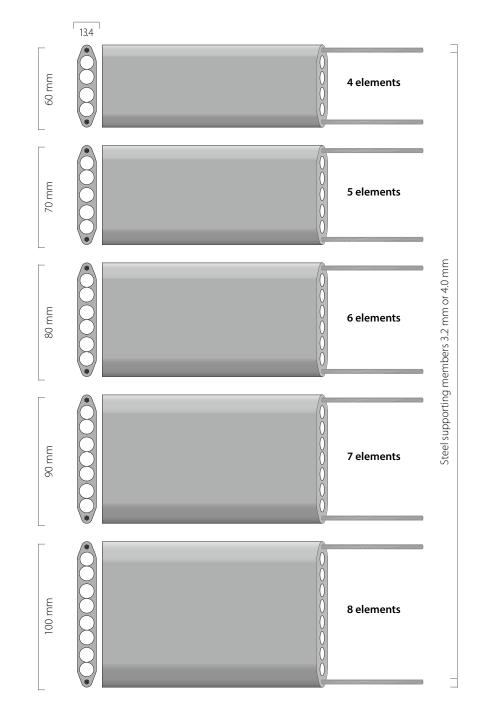
DATWYLER

ELEVATOR TRAVELLING CABLES Datwyler FH Module Concept

Innovative Datwyler module concept for the simplest, safest and best choice of cable for shaft heights up to 400 metres

Datwyler offers the best conditions for a choice of a functionally suitable cable with the new and unique module concept: quick, individual and economical.

Datwyler basic modules (4 to 8 bundle elements)



Module concept

PVC or LFH (Safety - Low Fire Hazard)

For a range of active constructions see page 26/27 and 34/35

Advantages:

- Only one or maximum two cables are required even for the most complex functions
- Shorter installation times
- Less logistics expenditureCustomized solutions



Flat cables

Accessories

Shaft cabling systems

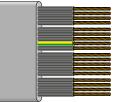
Information

ELEVATOR TRAVELLING CABLES Innovative Datwyler module concept Possible elements

Module type			Possible elements (international)	Dimensions	Integrated data elements
M1			CH-N05V-F 6240-F CH-N05Z-F 8570-F	12 x 0.75 mm ²	
M2			CH-N05V-F 6240-F CH-N05Z-F 8570-F	10 x 1.00 mm ²	
M3			CH-N07V-F 6240-F CH-N07Z-F 8570-F	7 x 1.50 mm ²	
M4	\$		CH-N07V-F 6240-F CH-N07Z-F 8570-F	6 x 2.0 mm ²	
M5			CH-N07V-F 6240-F CH-N07Z-F 8570-F	5 x 2.50 mm ²	
M6			CH-N03EC4-F 8667/2-F	3 x 4 x 0.34 mm ²	8607-F STQ
M7			CH-N03EC7-F 8061/2-F	3 x 4 x 0.50 mm ²	6347/3-F STQ
M8	*		CH-N03EA7-F 8662/2-F	7 x 2 x 0.50 mm ²	6651/2-F FTP
M9	۲		CH-N03EA7-F 8662/2-F	4 x 2 x 0.75 mm ²	6651/2-F FTP
M10	*		CH-N05V-Z 8811-Z CH-H05Z-Z 8823/2-Z	8 x 1.00 mm ² + 2 x optical fibre	GF-2314 50 μm GF-2314 62.5 μm
M11	*		CH-N05V-Z 8811-Z CH-H05Z-Z 8823/2-Z	$6 \times 1.00 \text{ mm}^2 + 4 \times \text{optical fibre}$	GF-2314 50 μm GF-2314 62.5 μm
M12	*		CH-N05V-Z 8811-Z CH-H05Z-Z 8823/2-Z	6 x 0.75 mm ² + 6 x optical fibre	GF-2314 50 μm GF-2314 62.5 μm
M13	۲	ļ. se	CH-N03EA7-F 8662/2-F	4 x 2 x 0.50 mm ²	6651/2-F FTP
M14			CH-N03EC7Z1-F 8871-F	3 x 4 x 0.50 mm ²	6347/3-F STQ
M15	*		CH-N03EA7Z1-F 8870-F	7 x 2 x 0.50 mm ²	6651/2-F FTP

Note: This is a selection of possible module elements. Please refer to manufacturer to verify feasibility of your requested combination of elements.





Drawing according to article number 148779 – Type 6777-F

PRODUCT INFORMATION



APPLICATION	Elevator suspension cable for inc	Elevator suspension cable for indoor and panoramic elevators.									
INSTALLATION	To comply with the correct insta manual which is available separa	llation procedures please refer to the Datwyler installation itely.									
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 PVC none none PVC									
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table									
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 45 m maximum 80 m maximum 4 m/s < 0.8 m/s ² -15 to +70 ℃ according to table, tolerance -50/+100 mm									
COLOUR CODE	Core: Outer sheath:	black, white numbered, G = with green-yellow core(s), JIF compliant types with different colours grey									
STANDARD	EN 50214										



ELEVATOR TRAVELLING CABLES FL - PVC - unsupported Low rise - travelling height maximum 80 m

Flat cables

Standards

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Information

19

DATWYLER

Subject to technical modification.

Article no. Type

6777-F

6777-F

6777-F

6777-F

6777-F

6777-F

6777-F

8555-F

6488-F

6488-F

6777/1-F

6777-F

6777-F

6777-F

6777-F

6777-F

Further dimensions on request

148775

148776

148777

155412

148779

148780

148833

173808

185282*

185283*

154413

148783

148784

154005

148786

148814

Rated

voltage

Uo/U [V]

300/500

300/500

300/500

300/500

300/500

300/500

300/500

300/300

300/500

300/500

300/500

300/500

300/500

300/500

300/500

300/500

Cross

area [n x mm²]

4 G 0.75

6 G 0.75

12 G 0.75

16 G 0.75

18 G 0.75

20 G 0.75

24 G 0.75

24 x 0.75

40 x 0.75

60 x 0.75

7 G 1.00

9 G 1.00

12 G 1.00

18 G 1.00

20 G 1.00

24 G 1.00

*Bundle construction G = with green-yellow core(s)

sectional

Overall

dimensions

[mm x mm]

13.0 x 4.5

18.7 x 4.3

34.0 x 4.3

44.7 x 4.3

49.3 x 4.3

55.2 x 4.3

65.6 x 4.3

55.2 x 4.0

57.2 x 9.4

79.9 x 10.5

23.2 x 4.7

27.8 x 4.4

35.3 x 4.4

51.1 x 4.4

57.6 x 4.4

68.4 x 4.4

approx. [w x h]

Data

none

elements

Weight

approx.

[kg/100m]

8.9

13.6

25.8

34.2

38.0

42.5

50.9

41.6

94.8

145.7

19.8

22.6

29.2

43.2

48.3

57.8

Copper

content

[kg/km]

29

43

87

115

130

144

173

173

309

446

67

86

115

173

192

230

Supporting

members

none

Loop

[mm]

300

300

300

300

300

300

300

300

450

500

300

300

300

300

300

300

Suspension

device

LZ 1006

LZ 1006

LZ 1006

LZ 1006

LZ 1006

LZ 1009

LZ 1009

LZ 1009

LZ 1009

LZ 1010

LZ 1006

LZ 1006

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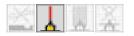
LZ 1009

LZ 1009



Drawing according to article number 167046 - Type 8326-F

PRODUCT INFORMATION



APPLICATION	Elevator suspension cable for ind	loor and panoramic elevators.
INSTALLATION	To comply with the correct instal manual which is available separa	lation procedures please refer to the Datwyler installation tely.
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 PVC details according to page 36/37 none PVC
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 45 m maximum 80 m maximum 4 m/s < 0.8 m/s ² -15 to +70 °C according to table, tolerance -50/+100 mm
COLOUR CODE	Core: Pair/quad: Coaxial : Outer sheath:	black, white numbered, G = with green-yellow core(s), JIS compliant types with different colours various colours or black with white numbers grey grey
STANDARD	EN 50214 JIS C 3408	



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Article no.	Туре	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device	Standard
		[n x mm ²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]		
81658	8304-F	3 G 1.50	450/750								0
		+ 9 x 0.75	300/500								
		+3 x 2 x 0.50	300/300	48.6 x 5.5	6651-F	44.3	143	none	350	LZ 1006	
85358	8798-F	12 G 0.75	300/500								ं
		+ 1 x CX 75 Ω		42.3 x 6.5	HF-2122-F	43.8	111	none	400	LZ 1006	
55424	7747-F	4 G 1.00	300/500								ं
		+ 16 x 0.75	300/500								
		+ 2 x 4 x 0.25	250/250		7067/2-F						
		+ 1 x 2 x 0.25	250/250	67.3 x 5.0	7954/2-F	58.2	187	none	350	LZ 1009	
67046	8326-F	20 x 0.75	300/300								\circ
		+ 2 x 2 x 0.50	300/300	52.0 x 5.3	6651-F	46.9	169	none	350	LZ 1006	
84758	8387-F	24 G 0.75	300/500								\sim
		+ 2 x 4 x 0.25	300/300	73.0 x 5.5	7954/2-F	69.7	216	none	350	LZ 1009	
84579	8798-F	24 x 0.75	300/500								\sim
		+ 1 x CX 75 Ω		72.3 x 6.8	HF-2122-F	77.8	197	none	400	LZ 1009	
67577	8506-F	4 x 1.50	450/750								100
		+ 2 x 1.00	300/500								
		+ 2 x 4 x 0.50	300/500	34.1 x 7.6	8504-F	43.4	141	none	400	LZ 1006	
82298	8822-F	4 G 2.50	450/750								\sim
		+ 12 x 1.00	300/500								
		+ 2 x 2 x 0.34	300/300		7345-F						
		+ 1 x CX 75 Ω		67.7 x 6.5	HF-2122-F	77.8	254	none	400	LZ 1009	
85281	8304-F	12 G 1.00	300/500								0
		+ 2 x 2 x 0.50	300/300	46 x 5.4	6651-F	42.2	140	none	350	LZ 1006	
81023	8606-F	3 G 2.50	450/750								\sim
		+ 14 x 1.00	300/500								
		+ 4 x 2 x 0.34	300/300	72.0 x 5.7	7345-F	72.6	244	none	350	LZ 1009	<u></u>
73814	8548-F	4 x 1.50	450/750								\sim
		+ 2 x 4 x 0.50	300/300		8504-F						
		+ 1 x CX 75 Ω		32.9 x 7.4	HF-2122-F	41.1	146	none	400	LZ 1006	
67019	8216-F	2 x 1.50	450/750								0
		+ 8 x 2 x 0.50	300/300		6651-F						
		+ 1 x CX 75 Ω		46.3 x 7.0	HF-2122-F	50.5	149	none	400	LZ 1006	
67567	8447-F	10 x 2 x 0.75	300/300	46.2 x 6.4	6651-F	43.6	171	none	400	LZ 1006	
73809	8580-F	12 x 2 x 0.75	300/300	51.6 x 6.3	6651-F	50.8	205	none	400	LZ 1006	
91032	8867-F	4 x 4 x 2 x AWG26		29.4 x 8.4	7702 flex 4F	31.5	71	none	500	LZ 1006	
		G = with green-ye	llow core(s)								

Further dimensions on request





Drawing according to article number 177690 - Type 8666-F

PRODUCT INFORMATION



DATWYLER

APPLICATION	Elevator suspension cable for indoor and panoramic elevators.						
INSTALLATION	To comply with the correct installation procedures please refer to the Datwyler installatio manual which is available separately.						
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 PVC details according to page 36/37 HTF = High tensile fibre, ST = Steel, diameter in [mm] PVC					
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table					
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 80 m maximum 150 m maximum 6.3 m/s < 1.2 m/s ² -15 to +70 ℃ according to table, tolerance -50/+100 mm					
COLOUR CODE	Core: Pair/quad: Coax: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers grey grey					

STANDARD

EN 50214



Flat cables

Accessories

Shaft cabling systems

formation

Flat cables

Standards

Article no.	туре	cross sectional area	voltage	dimensions approx. [w x h]	elements	approx.	copper content	members	гоор	device	Standard
		[n x mm ²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]		
165342	6599-F	20 G 0.75	300/500	62.8 x 4.3	none	46.5	144	HTF	300	LZ 1009	ं
165344	6599-F	24 G 0.75	300/500	73.1 x 4.3	none	54.9	173	HTF	300	LZ 1009	ं
156879	7770-F	24 G 0.75	300/500	73.2 x 4.3	none	59.0	173	ST Ø 2.5	400	LZ 1009	ं
166618	6599-F	18 G 1.00	300/500	58.6 x 4.4	none	47.3	173	HTF	300	LZ 1009	0
166505	6599-F	24 G 1.00	300/500	75.4 x 4.4	none	63.0	230	HTF	300	LZ 1009	ँ
55425	7757-F	4 G 1.00	300/500								\sim
		+ 16 x 0.75	300/500								
		+ 2 x 4 x 0.25	250/250		7067/2-F						
		+ 1 x 2 x 0.25	250/250	74.8 x 5.0	7954/2-F	65.9	187	ST Ø 2.5	450	LZ 1009	
76877	6900-F	6 G 1.50	450/750								\odot
		+ 6 x 1.00	300/500								
		+ 1 x 4 x 0.50	300/300	53.0 x 6.4	6347/3-F	59.6	173	HTF	400	LZ 1006	
166612	7500-F	12 G 1.00	300/500								\odot
		+ 1 x CX 75 Ω		50.9 x 6.4	HF-2122-F	53.0	139	HTF	400	LZ 1006	
77690	8666-F	12 G 1.00	300/500								ं
		+ 1 x 4 x 0.34	300/300	50.9 x 6.4	8607-F	52.5	142	HTF	400	LZ 1006	
67088	7757-F	4 G 1.50	450/750								ं
		+ 16 x 1.00	300/500								
		+ 2 x 2 x 0.50	300/300		7067/2-F						
		+ 1 x 2 x 0.50	300/300	78.5 x 5.8	7954/2-F	84.3	250	ST Ø 2.5	450	LZ 1009	
168190 8	8483-F	4 G 1.50	450/750								ं
		+ 16 x 1.00	300/500								
		+ 3 x 2 x 0.50	300/500	79.7 x 6.1	7954/2-F	89.6	275	ST Ø 2.5	450	LZ 1010	
167018	8210-F	2 x 1.50	450/750								ं
		+ 1 x CX 75 Ω			HF-2122-F						
		+ 8 x 2 x 0.50	300/300	54.1 x 7.1	6651-F	58.0	149	HTF	450	LZ 1006	
68191	8210-F	4 x 1.50	450/750								ं
		+ 2 x CX 75 Ω			HF-2122-F						
		+ 8 x 2 x 0.50	300/300	64.3 x 7.0	6651-F	71.6	201	HTF	450	LZ 1009	
82058	8820-F	4 x 1.50	450/750								ं
		+ 2 x CX 75 Ω			HF-2122-F						
		+ 8 x 2 x 0.50	300/300	64.3 x 7.0	6651-F	74.5	201	ST Ø 2.5	500	LZ 1009	
85217	8210-F	4 x 1.50	450/750								ं
		+ 4 x CX 75 Ω			HF-2122-F						
		+ 8 x 2 x 0.50	300/300	72.8 x 7.0	6651-F	82.5	249	HTF	450	LZ 1009	\odot
68185	8507-F	12 x 2 x 0.50	300/300	54.1 x 5.6	6651-F	44.9	147	HTF	400	LZ 1006	ि
92360	8854/3-1	H 4 x 2 x 0.50	300/300	28.0 x 9.0	6651/3-H	31.1	56	ST Ø 2.5	450	LZ 1006	Ó
91093	8512-F	3 G 2.50	450/750								0 0 0 0
		+ 14 x 1.00	300/500								
		+ 4 x 2 x 0.50	300/300	79.0 x 5.7	6651-F	80.6	232	ST Ø 2.5	400	LZ 1009	
92453	8884-F	8 x 0.75	300/500								ं
		+ 4 x FO G50/1		40.8 x 4.3	GF-2314	30.2	58	ST Ø 2.5	400	LZ 1006	
		G = with green									

Overall

Data

Weight

Copper

Supporting

Loop

Suspension

Rated



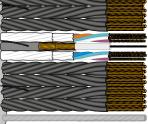
Article no. Type

Cross



Drawing according to article number 161448 - Type 8292-F

PRODUCT	INFORMATION



APPLICATION	Elevator suspension cable for indoor and panoramic elevators.						
INSTALLATION		To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.					
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 PVC details according page 36/37 ST = Steel, diameter in [mm] PVC					
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table					
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 220 m maximum 400 m maximum 12 m/s < 1.2 m/s ² -15 to +70 °C according to table, tolerance -50/+100 mm					
COLOUR CODE	Core: Pair/quad: Coax: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers grey grey					



EN 50214



Article no.	Туре	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device	Standards
		[n x mm ²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]		
157219	7877-F	40 x 0.75	300/500	69.0 x 9.4	none	111.4	309	ST Ø 2.5	550	LZ 4001	\odot
185284	7877-F	60 x 0.75	300/500	89.3 x 10.5	none	161.0	446	ST Ø 3.2	550	LZ 4001	ं
161448	8292-F	40 G 0.75	300/500								\odot
		+2 x 4 x 0.50	300/300		6347/2-F						
		+ 1 x CX 75 Ω		81.6 x 9.6	HF-2122-F	138.1	400	ST Ø 3.2	550	LZ 4001	
176846	8490-F	30 G 1.00	300/500								\odot
		+ 1 x CX 75 Ω		64.8 x 9.8	HF-2122-F	112.3	332	ST Ø 2.5	550	LZ 4001	
184645	8846-F	30 G 1.00	300/500								\odot
		+ 2 x 2 x 0.75	300/300	64.3 x 9.9	6651/3-F	103.7	343	ST Ø 2.5	550	LZ 4001	
192528	8893-F	12 G 0.75	300/500								\odot
		+ 20 x 2 x 0.75	300/300		6651/2-F						
		+ 1 x CX 75 Ω		86.6 x 13.4	HF-2122-F	164.9	462	ST Ø 4.0	550	LZ 4001	
		G = with greer	n-yellow core(s)							

Further dimensions on request

Accessories





Drawing according to article number 185372 - Type 8847-F

Flat cables

PRODUCT INFORMATION	
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APPLICATION	Elevator suspension cable for indoor and panoramic elevators.						
INSTALLATION	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.						
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 PVC details according to page 36/37 ST = Steel, diameter in [mm] PVC					
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table					
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 220 m maximum 400 m maximum 12 m/s < 1.2 m/s ² -15 to +70 ℃ approx. 600 mm, Tolerance -50/+150 mm					
SUSPENSION DEVICE	LZ 4001						
COLOUR CODE	Core: Pair/quad: Coax: Optical fibres: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers grey orange 50 μm, grey 62.5 μm grey					
STANDARD	EN 50214						





Flat cables

Standards

Article no.	Type	Cross sectional area	Rated voltage	Bundle type p. 17	No. of elements	Data elements	Overall dimensions approx. [w x h]	Supporting	Weight approx.	Copper content	Standards
		[n x mm ²]	Uo/U [V]				[mm x mm]		[kg/100m]	[kg/km]	
184646	8847-F	5 G 2.50	450/750								\odot
		+ 7 x 1.50	450/750								
		+ 16 x 1.00	300/500								
		+ 4 x 2 x 0.75	300/300	M5,		6651/2-F					
		+ 2 x FO G50/125		M2, M9,		GF-2314					
		+ 2 x FO G62.5/125)	M11, M3	5	GF-2314	70.0 x 13.4	ST Ø 4.0	152.5	448	
185372	8847-F	10 G 2.50	450/750	M5, M2							$\langle \bigcirc \rangle$
		+ 18 x 1.00	300/500	M9, M9							
		+ 12 x 2 x 0.75	300/300	M9, M10,		6651/2-F					
		+ 2 x FO G62.5/125)	M5	7	GF-2314	90.0 x 13.4	ST Ø 4.0	198.7	629	
177860	8687-F	40 G 1.00	300/500	M2, M2, M1	3,						\odot
		+ 8 x 2 x 0.50	300/300	M6, M13,		6651/2-F					
		+ 3 x 4 x 0.34	300/300	M2, M2	7	8607-F	86.6 x 13.4	ST Ø 3.2	175.0	578	
187125	8847-F	5 G 2.50	450/750								\odot
		+ 7 x 1.50	450/750								
		+ 16 x 1.00	300/500	M5,							
		+ 4 x 2 x 0.75	300/300	M2, M9,		6651/2-F					
		+ 4 x FO G50/125		M11, M3	5	GF-2314	70.0 x 13.4	ST Ø 4.0	150.9	448	
186276	8858-F	12 G 2.00	450/750	M4							\circ
		+ 30 x 1.00	300/500	M2, M8							
		+ 7 x 2 x 0.50	300/300	M2, M7,		6651/2-F					
		+ 3 x 4 x 0.50	300/300	M2, M4	7	6347/3-F	88.7 x 13.4	ST Ø 4.0	196.8	698	
187102	8687-F	5 G 2.50	450/750	M5,							\odot
		+ 30 G 1.00	300/500	M2, M9,							
		+ 8 x 2 x 0.75	300/300	M6, M9,		6651/2-F					
		+ 3 x 4 x 0.34	300/300	M2, M2	7	8607-F	87.6 x 13.4	ST Ø 4.0	188.0	638	
188337	8680-F	10 G 2.50	450/700	M5,							\circ
		+ 20 x 1.00	300/500	M2, M9,							
		+ 4 x 2 x 0.75	300/300	M2, M5	5	6651/2-F	70.0 x 13.4	ST Ø 4.0	155.7	513	
192527	8892-F	20 G 2.50	450/750	M5, M5,							\circ
		+ 6 x 1.00	300/500	M1, M11,							
		+ 24 x 0.75	300/300	M1, M5, M5							
		+ 4 x FO G62.5/125)		7	GF-2314	90.0 x 13.4	ST Ø 4.0	199.3	730	
		G = with green-yel	low core(s)								

Overall

Supporting

Weight

Copper

Bundle

No. of

Data

Rated

Further dimensions on request

Article no. Type

Cross







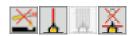
Drawing according to article number 191113 - Type 8582-F

Flat cables

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Accessories

PRODUCT INFORMATION



APPLICATION	Elevator suspension cable for indoor and panoramic elevators.							
INSTALLATION		To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.						
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 low fire hazard details according to page 36/37 none low fire hazard						
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table						
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 45 m maximum 80 m maximum 4 m/s < 0.8 m/s ² -15 to +70 ℃ according to table, tolerance -50/+100 mm						
COLOUR CODE	Core: Pair/quad: Coax: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers black black						

STANDARD

EN 50214



ELEVATOR TRAVELLING CABLES FL – Low Fire Hazard – unsupported Low rise - travelling height maximum 80 m

Flat cables



Article no. Type

Cross

area

sectional

[n x mm²]

87 8511-F 12 G 0.75 300/500 34.3 x 4.4 26.0 300 191110 none LZ 1006 185125 8511-F 18 G 0.75 300/500 38.4 130 300 LZ 1006 49.4 x 4.4 none 8511-F 24 G 0.75 173 300 191112 300/500 66.7 x 4.4 51.4 LZ 1009 none 8636-F 300/500 191111 12 G 0.75 + 3 x 2 x 0.50 300/300 123 LZ 1006 47.4 x 5.4 6651-F 42.7 400 none 182205 8827-F 3 G 2.50 450/750 + 14 x 1.00 300/500 + 4 x 2 x 0.34 300/300 72.3 x 5.8 7345-F 75.4 244 none 400 LZ 1009 24 G 1.00 300/500 191113 8582-F 300/300 6651-F +3 x 2 x 0.75 + 1 x CX 75 Ω HF-2123-F 87.3 x 6.5 97.4 306 none 400 LZ 1010 190491 8582-F 2 x 1.50 450/750 + 8 x 2 x 0.50 300/300 6651-F + 1 x CX 75 Ω HF-2123-F 47.8 x 7.1 54.0 149 none 450 LZ 1006 G = with green-yellow core(s) Further dimensions on request

Weight

approx.

[kg/100m]

Copper

content

[kg/km]

Supporting

members

Loop

[mm]

Suspension

device

Standards

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Overall

dimensions

[mm x mm]

approx. [w x h]

Data

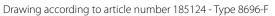
elements

Rated

voltage

Uo/U [V]





PRODUCT INFORMATION



APPLICATION	Elevator suspension cable for indoor and panoramic elevators.					
INSTALLATION	To comply with the correct installation procedures please refer to the Datwyler installatio manual which is available separately.					
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 low fire hazard details according to page 36/37 HTF = High tensile fibre low fire hazard				
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table				
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 80 m maximum 150 m maximum 6.3 m/s < 1.2 m/s ² -15 to +70 °C according to table, tolerance -50/+100 mm				
COLOUR CODE	Core: Pair/quad: Coax: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers black black				
STANDARD	EN 50214					



ELEVATOR TRAVELLING CABLES FM – Low Fire Hazard – supported Mid rise - travelling height maximum 150 m

Flat cables

Standards

 $\langle \uparrow \rangle$

Suspension

device

LZ 1006

LZ 1006



Article no. Type

8622-F

8696-F

8872-F

Further dimensions on request

185127

185124

184674

191094

Cross

area

sectional

[n x mm²]

12 G 1.00

12 G 1.00

3 G 2.50

G = with green-yellow core(s)

+ 14 x 1.00

8849-F 12 x 2 x 0.50

+ 1 x CX 75 Ω

+ 1 x 4 x 0.34

Overall

dimensions

[mm x mm]

48.4 x 6.0

approx. [w x h]

48.4 x 6.0

Data

8607-F

elements

Weight

approx.

[kg/100m]

HF-2123-F 49.8 139 HTF

50.1

+ 4 x 2 x 0.50 300/300 79.0 x 5.7 6651-F 83.8 232 HTF 400 LZ 1009

Copper

content

[kg/km]

142

55.8 x 5.6 6651-F 49.6 116 HTF 400 LZ 1009

Supporting

members

HTF

Loop

[mm]

400

400

Rated

voltage

Uo/U [V]

300/500

300/500

300/300

450/750

300/500

300/300



Drawing according to article number 185126 - Type 8585-F

PRODUCT INFORMATION



APPLICATION	Elevator suspension cable for indoor and panoramic elevators.	
INSTALLATION	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 low fire hazard details according to page 36/37 ST = Steel, diameter in [mm] low fire hazard
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 220 m maximum 400 m maximum 12 m/s < 1.2 m/s ² -15 to +70 ℃ according to table, tolerance -50/+100 mm
COLOUR CODE	Core: Pair/quad: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers black
STANDARD	EN 50214	



ELEVATOR TRAVELLING CABLES FH – Low Fire Hazard – supported High rise - travelling height maximum 400 m

Flat cables

Standards

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Article no. Type

8585-F

8880-F

Further dimensions on request

185126

192313

Cross

area

sectional

 $[n \times mm^{2}]$

30 G 1.00 + 1 x 4 x 0.34

12 G 0.75

+ 24 x 2 x 0.75 300/300

G = with green-yellow core(s)

Overall

dimensions

[mm x mm]

approx. [w x h]

Data

elements

6651/2-F

Weight

approx.

[kg/100m]

Copper

content

[kg/km]

+ 1 x CX 75 Ω 98.5 x 14.5 HF-2123-F 188.3 532 ST Ø 4.0 550 LZ 4001

61.8 x 9.7 8607-F 106.8 335 ST Ø 2.5 550 LZ 4001

Supporting

members

Loop

[mm]

Suspension

device

Rated

voltage

Uo/U [V]

300/500

300/500

300/300



Drawing according to article number 191114 - Type 8859-F

Flat cables

-

Ρ	RO	Dl	JC	Γ IN	FO	RM	ATI	ON	
_									



APPLICATION	Elevator suspension cable for inc	loor and panoramic elevators.
INSTALLATION	To comply with the correct insta manual which is available separa	llation procedures please refer to the Datwyler installation tely.
CONSTRUCTION	Core flexible: Core insulation: Data elements: Supporting members: Outer sheath:	class 5 low fire hazard details according to page 36/37 ST = Steel, diameter in [mm] low fire hazard
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length: Travelling height: Running speed: Acceleration: Operating temperature: Recommended loop diameter:	maximum 220 m maximum 400 m maximum 12 m/s < 1.2 m/s ² -15 to +70 ℃ approx. 650 mm, tolerance -50/+150 mm
SUSPENSION DEVICE	LZ 4001	
COLOUR CODE	Core: Pair/quad: Coax: Optical fibres: Outer sheath:	black, white numbered, G = with green-yellow core(s) various colours or black with white numbers, bundle with black sheath black orange 50 μm, grey 62.5 μm black

EN 50214



STANDARD

ELEVATOR TRAVELLING CABLES FH Module Concept – Low Fire Hazard High rise - travelling height maximum 400 m

Flat cables

Accessories

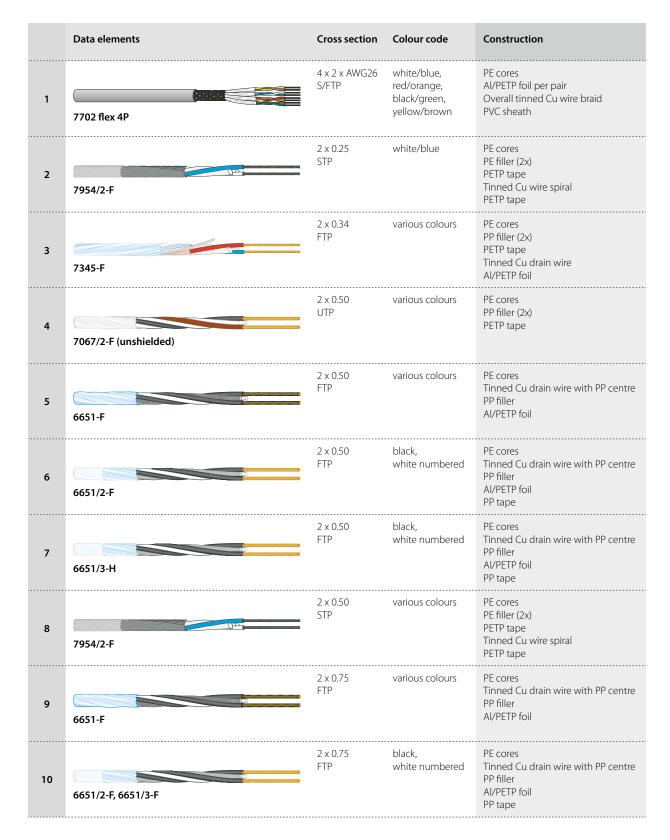
Article no.	Туре	Cross sectional area	Rated voltage	Bundle type p. 17	No. of elements	Data elements	Overall dimensions approx. [w x h]	Supporting members	Weight approx.	Copper content	Standards
		$[n x mm^{2}]$	Uo/U [V]	•			[mm x mm]		[kg/100m]	[kg/km]	
191114	8859-F	12 G 2.00	450/750	M4,							\odot
		+ 30 x 1.00	300/500	M2, M15,							
		+ 7 x 2 x 0.50	300/300	M2, M14,		6651/2-F					
		+ 3 x 4 x 0.50	300/300	M2, M4	7	6347/3-F	90.7 x 14.0	ST Ø 4.0	199.8	698	
191483	8866-F	10 G 2.50	450/750								\odot
		+ 7 x 1.50	450/750	M3							
		+ 6 x 1.00	300/500	M5, M9							
		+ 12 x 2 x 0.75	300/300	M5, M9		6651/2-F					
		+ 4 x FO G50/125		M11, M9	7	GF-2314	94.0 x 14.0	ST Ø 4.0	215.5	616	
192314	8881-F	20 G 2.50	450/750	M5, M5,							\odot
		+ 6 x 1.00	300/500	M1, M11,							
		+ 24 x 0.75	300/500	M1, M5,							
		+ 4 x FO G50/125		M5	7	GF-2314	90.0 x 13.4	ST Ø 4.0	201.6	730	
192236	8839-F	35 G 2.50	450/750	M5, M5, M5	, ,						\odot
				M5, M5, M5	,						
				M5	7		90.0 x 13.4	ST Ø 4.0	214.5	860	
192 342	8866-F	42 G 0.75	300/500	M1, M1,							ं
		+ 12 x 2 x 0.75	300/500	M9, M9, M9	Ι,	6651/2-F					
		+ 6 x FO G50/125		M12, M1	7	GF-2314	90.5 x 14.8	ST Ø 4.0	178.7	522	
		G = with green-yel	low core(s)								

Further dimensions on request





ELEVATOR TRAVELLING CABLES Data elements for Datwyler travelling cables



Note: All data elements on page 36/37 are semi-finished products and not available for individual sale.



ELEVATOR TRAVELLING CABLES Data elements for Datwyler travelling cables

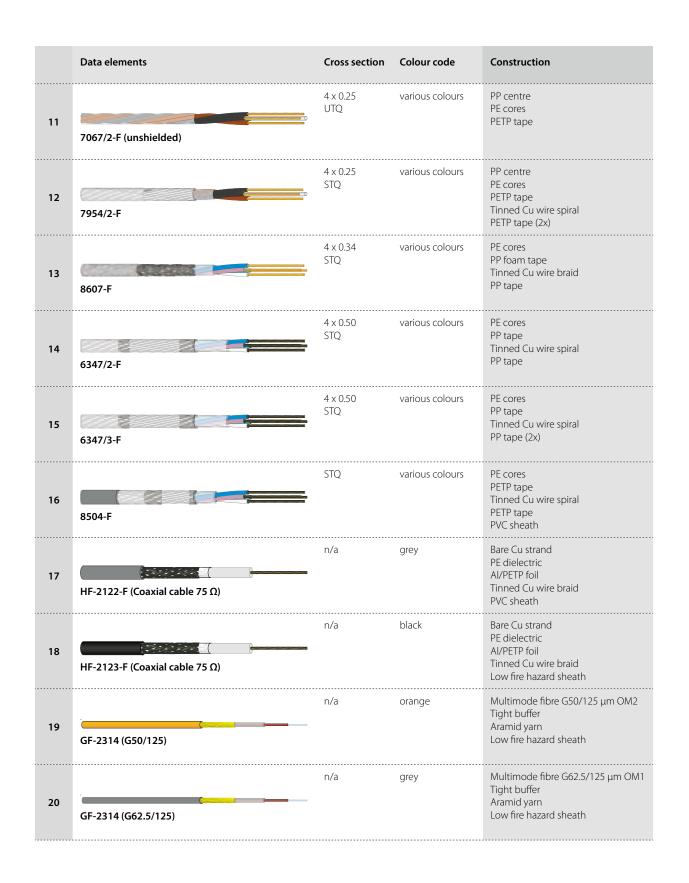






Figure 1: Suspension device LZ 1006 Figure 2: Suspension device LZ 1009 Figure 3: Suspension device LZ 1010

PRODUCT INFORMATION

APPLICATION

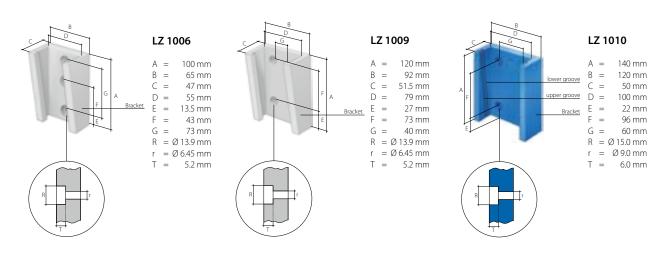
Suspension devices for Datwyler FL and FM elevator travelling cables.

The cable width, number of cables (cable combinations) to be mounted and travelling height determine the selection of the correct cable suspension device(s).

To this end, please note the maximum clamping thickness of the individual suspension parts.

MATERIAL	Nylon PA6	LZ 1006 / LZ 1009	grey
	Aluminium	LZ 1010	blue anodised

DIMENSIONS



Article no.	Туре	Colour	Cable clamping range maximum [mm]	Width of cable ≤ [mm]	Screw holes	Figure
179813	LZ 1006	grey	3 - 12 mm	≤ 55 mm	3	1
179814	LZ 1009	grey	3 - 15 mm	≤ 56 - 79 mm	4	2
163354	LZ 1010	blue	3 - 22 mm	≤ 80 -100 mm	4	3



Installation of suspension devices / FL and FM elevator travelling cables

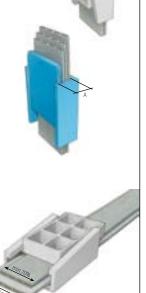
1 Maximum clamping thickness of suspension device Maximum 3 cables

LZ 1006 (grey) Clamping range A = 3 - 12 mm Width of cable ≤ 55mm

LZ 1009 (grey) Clamping range A = 3 - 15 mm Width of cable $\leq 56 - 79$ mm

LZ 1010 (blue) Clamping range A = 3 - 22 mmWidth of cable $\leq 80 - 100 \text{ mm}$

2 Cable combination for FL Maximum 3 cables Different cable widths are possible



5 Installation positions of suspension devices for FL and FM cables

	FL	FM
Maximum travelling height	80 m	150 m
	(260 feet)	(490 feet)
Maximum free suspension	45 m	80 m
length (m)	(150 feet)	(260 feet)
		And in case of the local division of the loc

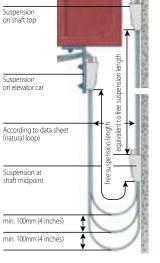
A third suspension device is required at shaft midpoint if the actual **travelling height** is higher than the **free suspension length**.

Minimum loop spacing for cable combination

6

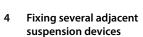
7

Distance between loops min. 100 mm (4 inches): thickest cable on bottom, thinnest cable on top



3 Cable combination for FM

Maximum 3 cables Combinations only with equal cable widths



Spacing A = minimum 50 mm



Installation below machine room

Only one cable per suspension device.

Diameter for fixed loop = minimum 14x cable thickness t.

Loop cable back on itself.









natural loop

Accessories

lat cables

ACCESSORIES Suspension device for FH cables



Figure 1: Suspension device LZ 4001 for FH cables



Figure 2: Screw set M12x40 for car/counter weight



Figure 3: Hilti HSL-3 M8/20 for shaft wall

PRODUCT INFORMATION

APPLICATION	Steel suspension device for a max	ximum of two Datwyler FH elevator travelling cables.
INSTALLATION	The following installation screw s	ets are available for LZ 4001:
	Elevator car or counter weight:	4 bolts M12x40 including spring-washer, washer and nut (see figure 2),
	Shaft wall:	bolt: property class 8.8/8 (nut) 4 Hilti HSL-3 M8/20 (see figure 3), (minimum concrete strength required: b _w =30 N/mm²)
DIMENSIONS	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	mm mm mm mm mm
CRIMPING SLEEVE	For recommended crimping slee	ves see "Installation Tools" (page 42).

Suspension device LZ 4001 for FH cables

Article no.	Туре	Figure
184606	LZ 4001	1

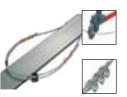
Installation kits

Туре	Application	Figure	PU
Screw set M12x40	for fixing to elevator car or counter weight	2	2 pcs.
Hilti HSL-3 M8/20	for fixing to shaft wall	3	2 pcs.
	Screw set M12x40	Screw set M12x40 for fixing to elevator car or counter weight	Screw set M12x40 for fixing to elevator car or counter weight 2



Installation of suspension device / FH elevator travelling cables

- Forming a loop 1 Draw other end of
 - steel wire rope through second sleeve. Use tape for parallel fixation

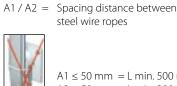


Alternative to crimping sleeves: 3x Crospy clips G-450 each side or cable grip according to DIN 1142

Compress sleeve according table

Ø Steel wire (mm)	Sleeve article no.	Туре	Sleeves per loop	Crimps per crimping	Section of tool (inch)
2.5	166668	SL 2–3	1+1	2	3/32
3.0	166669	SL 2–4	1+1	2	1/8
3.2	166669	SL 2–4	1+1	2	1/8
4.0	182059	SL 2–5	2+2	3	5/32
5.0	182060	SL 2–6	2+2	3	3/16
6.0	182061	SL 2–7	2+2	3	3/16

2 Preparation for cable installation



 $A1 \leq 50 \text{ mm} = L \text{ min.} 500 \text{ mm}$ A2 > 50 mm = L min. 300 mm

Combination with 3 different cable widths Cable with bigger dimension should be outside



Installation of 4 multiple suspension devices side by side Spacing A = minimum 160 mm (concrete strength required $bw = 30 \text{ N/mm}^2$

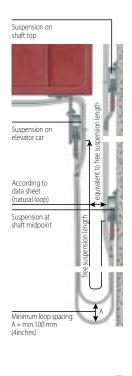


Installation position of suspension device for FH cables 5

Maximum travelling height = 400 m (1312 feet)

Maximum free suspension length = 220 m (722 feet)

A third suspension device is required at shaft midpoint if the actual travelling height is higher than the free suspension length.



Installation below 6 machine room

> Add a distance filler between LZ 4001 and shaft wall. Cable from below behind the LZ 4001.

Cable must be looped back on itself and free of tension. Diameter for fixed loop = minimum 14x cable thickness t



Printing to shaft wall





DATWYLER

ACCESSORIES Installation tools



PRODUCT INFORMATION

DESCRIPTION

AV 150 and AV 400 installation aid

Datwyler flat cables are most easily and quickly drawn in using the AV installation aid. The AV 150 is suitable for elevator shaft heights up to 150 m. The AV 400 is suitable for elevator shaft heights up to 400 m. The AV 400 indispensable component is also part of the FH tool box (article no. 179278) which contains all the tools and accessories necessary for installing Datwyler FH cables.

cuts steel wire ropes up to diameter of 8 mm

cuts steel wire ropes up to diameter of 4 mm

for rope diameters of 2.5 mm, set of 10 pieces

for rope diameters of 3.2 mm, set of 10 pieces

tool for splicing of steel wire ropes

for elevator shaft heights up to 400 m

special knife to commence the removal of the cable jacket

Professional FH tool box

with indispensable tools and accessories for installation of FH cables

Contents: 4. Wire rope cutter big

- 5. Wire rope cutter small
 - 6. Stripping knife
 - 7. Crimping tool
 - 8. Crimping sleeves small
 - 8. Crimping sleeves large
 - 2. 2x auxiliary device AV 400
 - 9. Cutter
 - 10. Universal scissors
 - 11. Steel wire ropes

Cutters, crimping tool, crimping sleeves, etc.

The above mentioned accessories are also available seperately.

Article no.	Figure	Туре	Description	
176812	1	AV 150	for elevator shaft heights up to 150 m	
176811	2	AV 400	for elevator shaft heights up to 400 m	
179278	3	FH tool box		
184575	4	Wire rope cutter big	cuts steel wire ropes up to diameter of 8 mm	
166670	5	Wire rope cutter small	cuts steel wire ropes up to diameter of 4 mm	
163358	6	Stripping knife	special knife to commence the removal of the cable jacket	
166667	7	Crimping tool	tool for splicing of steel wire ropes	
166668	8	Crimping sleeves SL 2-3	for rope diameter of 2.5 mm	Set of 10 pieces
166669	8	Crimping sleeves SL 2-4	for rope diameter of 3.0 mm	Set of 10 pieces
166669	8	Crimping sleeves SL 2-4	for rope diameter of 3.2 mm	Set of 10 pieces
182059	8	Crimping sleeves SL 2-5	for rope diameter of 4.0 mm	Set of 10 pieces
182060	8	Crimping sleeves SL 2-6	for rope diameter of 5.0 mm	Set of 10 pieces
182061	8	Crimping sleeves SL 2-7	for rope diameter of 6.0 mm	Set of 10 pieces
179473	9	Cutter		
179472	10	Universal scissors		



lat cables

Accessories





Installation instructions for all travelling heights

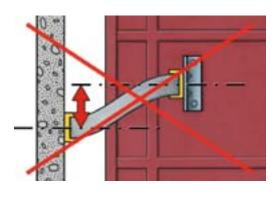
Installation position on shaft and car floor 1

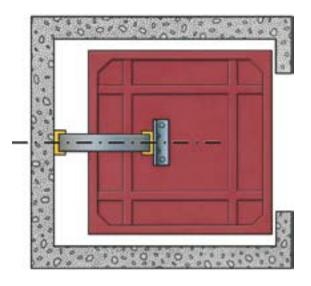
Positions must be aligned.

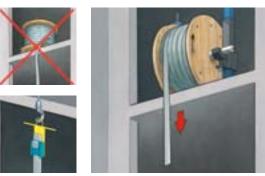
Paying out of cables into the shaft 2

Direction of the cable: parallel to drum flanges. No twisting. Cable printing > to shaft wall.

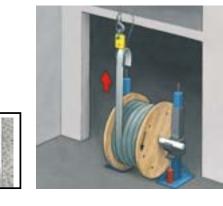
Use of guiding pulleys: Minimum Ø 28x cable thickness t .











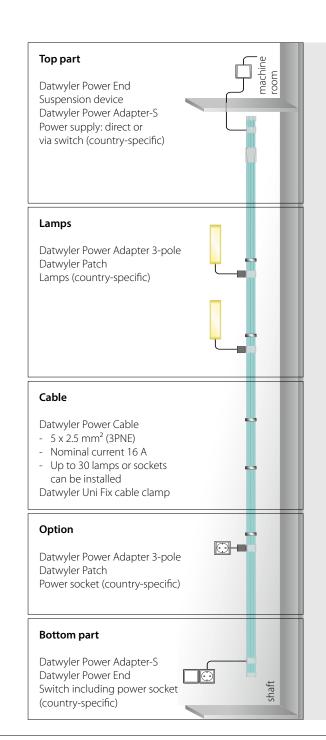


<u>SHAFT CABLING SYSTEMS</u> Shaft lighting system

Elevator shaft lighting system with reference to EN 81 and Annex I of Directive 98/37/EC and 95/16/EC of the European Parliament.

Features and advantages:

- Fast and easy installation
- Flexible in mounting of lamps, adapter and switch elements
- Order per commission
- 2.5 mm² wires, low voltage drop on serial connectors
- Low total costs



Shaft lighting system

Components

Cable plus	Description	Article no.
	Datwyler Power Cable 5x2.5mm ²	187048
and a second	Datwyler Uni Fix cable clamp	1300290
	Suspension device LZ 1006	179813
Option	Description	Article no.
	•	Article no.
	Datwyler Patch 3x1.5 MC (L = 1 m)	1300511
	Datwyler Patch	
	Datwyler Patch 3x1.5 MC (L = 1 m) Datwyler Combi Tool	1300511

Datwyler Power Adapter 3-pole (250V)

Datwyler Power End

Customised solutions available on request!

23



1300972

We provide the following services:

- Harnessing
- Logistics
- Consulting and engineering





Harnessing

Solutions for elevator manufacturers (100% tested, ready for plug and play):

- Paper-free CIM-production
- Shaft wiring/cabling
- Machine room/drive cables
- Cabin terminal boxes
- Travelling cables
- Shaft lighting system
- Additional components:
 - door cables, bells, horns, position tracking systems

Solutions for industry:

Paper-free CIM-production, single cables, cable groups, complex cabling

We can provide a suitable system solution for most applications. With harnessing plants in different locations we are in the position to offer small, medium and large production runs at very competitive prices.

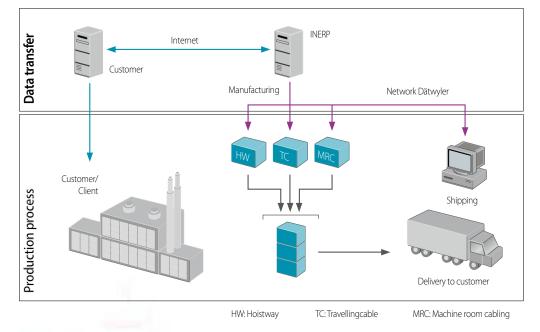


Logistics

Communication

Order transmission and order confirmation by B2B via Internet.

Example of elevator B2B process





Our services include

- Comprehensive consulting and engineering in harnessing
- EDI order communication B2B via Internet
- Procurement and inclusion of additional components
- Complete packing and dispatch logistics

Logistics

Component packing Barcode labels Loose parts commissioned Just-in-time delivery world-wide



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ICT NETWORKS Scalable solutions for high performance network infrastructures

Catalogue

SYSTEM CIRCUIT INTEGRITY IN THE EVENT OF FIRE Safety cables and systems from a professional

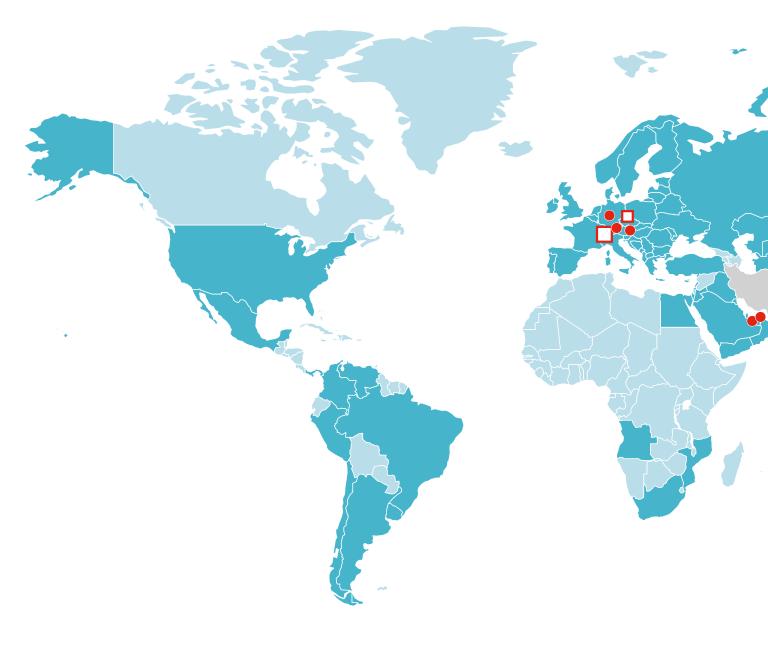




Catalogue

FTTH - FIBER TO THE HOME Cutting-edge total solutions for superfast fibre-optic broadband networks

GLOBAL MARKET COMPETENCE



- Datwyler Headquarters and Manufacturing Plant
- Datwyler Manufacturing Plants
 - Datwyler Offices
 - Active Market Presence by Datwyler and its Distribution Partners

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