

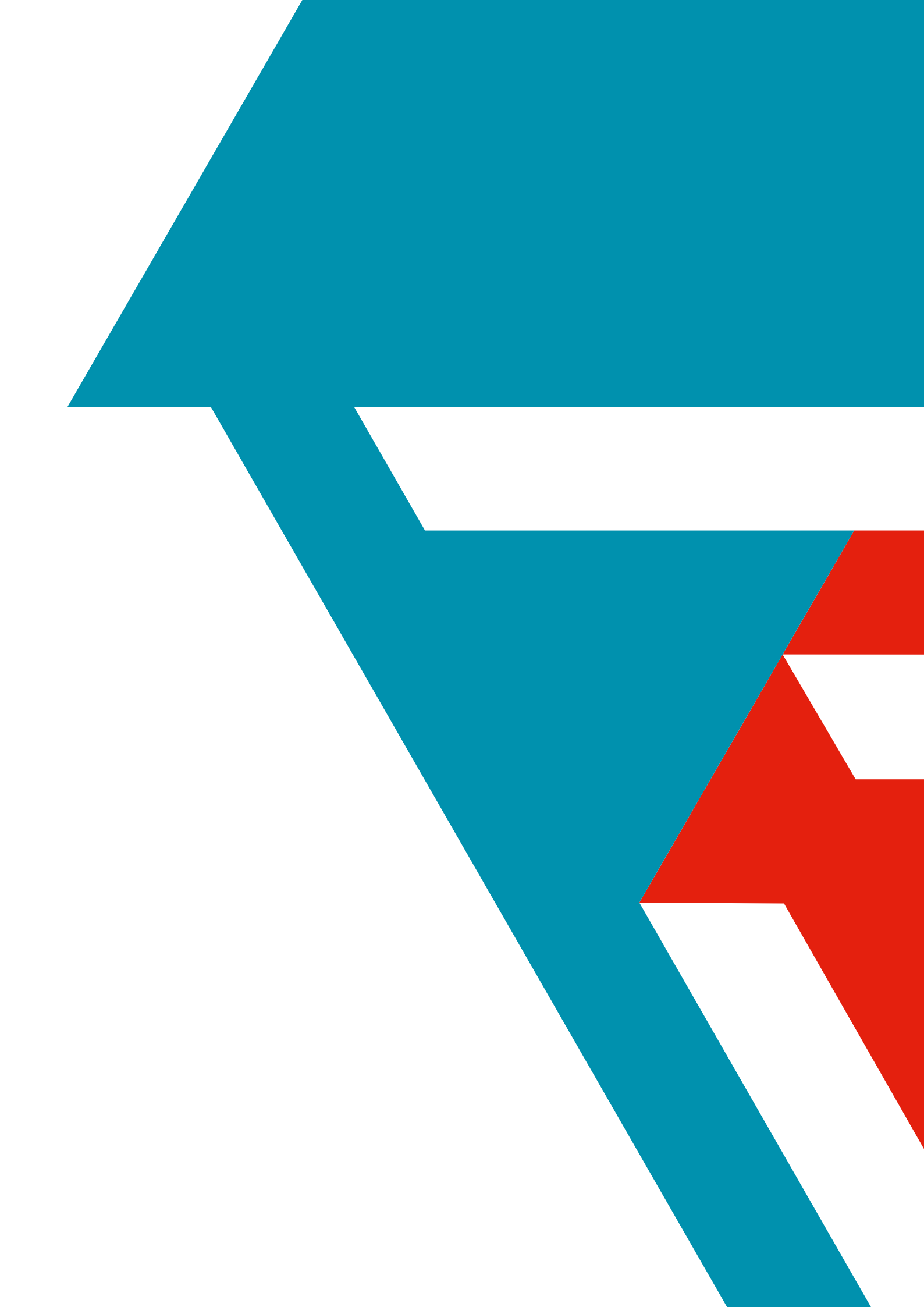


# ELEVATOR CABLING SYSTEMS

Power and data for modern elevators

TRADITION ♦ INNOVATION ♦ PASSION





# CONTENTS

	page		page
About us	2	Quality from first to last millimeter	10
Elevator cabling systems	6	Product features: Explanation of pictographs	12
Product overview	8	The most important test procedures and their functions	13

## FLAT CABLES

Product survey and selection criteria for Datwyler elevator cables	14
Datwyler module concept	16
Elevator suspension cables – PVC	18
Module concept – PVC	26

## ACCESSORIES

Suspension devices	38
Installation tools	42

## SHAFT CABLING SYSTEMS

Shaft lighting system	44
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## INFORMATION

Harnessing	45
Logistics	46

## 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**



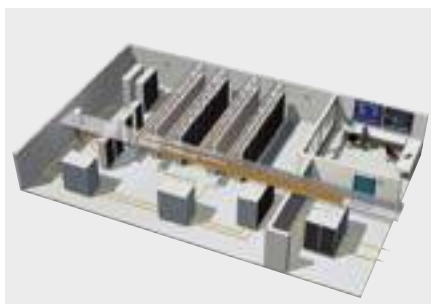
**Office blocks**



**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.

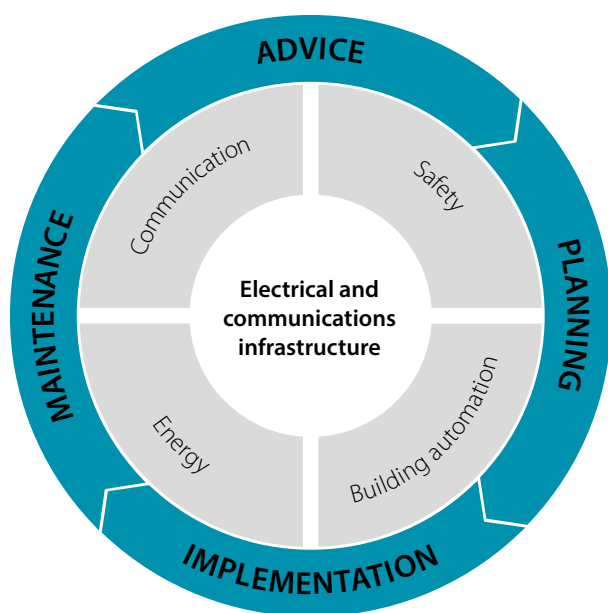
Being a solid, reliable company about to celebrate its 100th year of operation, Datwyler leads the way in innovations for applications such as ICT networks, power supply, fire safety, building automation and elevators.

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

Datwyler Cabling Solutions does not only supply integrated system solutions, but has positioned itself successfully as a turnkey partner: for all manner of purpose-built constructions including multi-site projects, for data centres and for FTTx projects. Our successful processing of turnkey projects derives from our high-level skills in developing and manufacturing the required products and solutions, our comprehensive applications expertise, our international presence and our globally established partner network.



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 strin-

gent quality standards before it leaves the company. Of course, all our processes are ISO 9001:2008 / ISO 14001:2004 certified.

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 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.



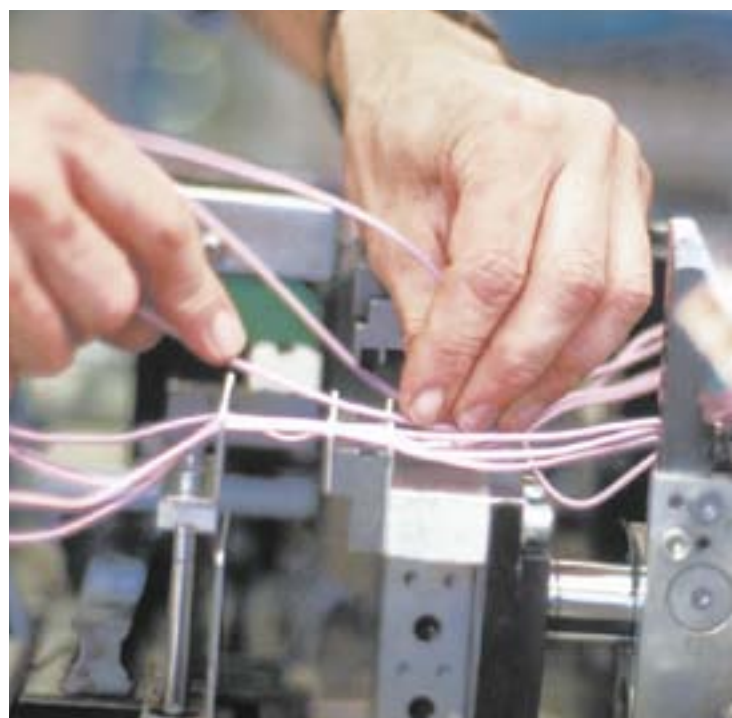


Besides delivering straight to the construction site, we also offer additional logistics services (time slots, pre-fitted and pre-assembled products etc.). Many customers and suppliers have a direct link to our IT system for rapid and flexible order processing.

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!**



**POWER AND DATA**  
for modern elevators

# 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.

**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.

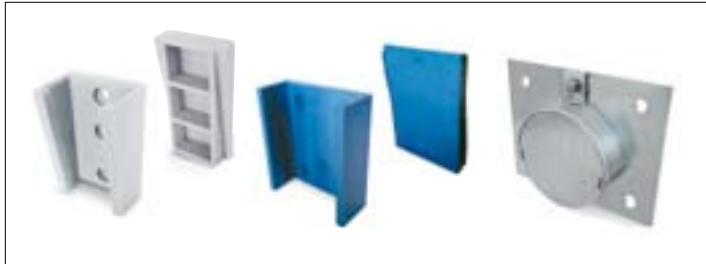
**Customer value in focus**

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



Spinnaker Tower, Portsmouth

# PRODUCT OVERVIEW



**Suspension devices**  
for Datwyler FL, FM, FH



**Installation tools**  
for simple installation  
of FL, FM and FH cables



**Shaft lighting system**

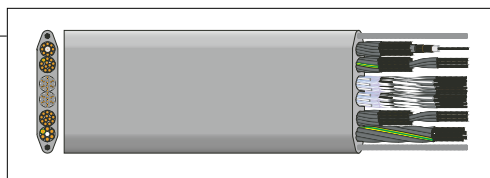




**Pre-assembled machine  
room cabling (MRC)**  
ready for installation



**Flat cables**  
FL, FM, FH and  
module concept,  
PVC and Low Fire Hazard



**Pre-assembled  
hoistway cables/  
wires (HW)**  
ready for  
connection



**Pre-assembled  
travelling  
cables (TC)**  
for all travelling  
heights

# 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 height		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.

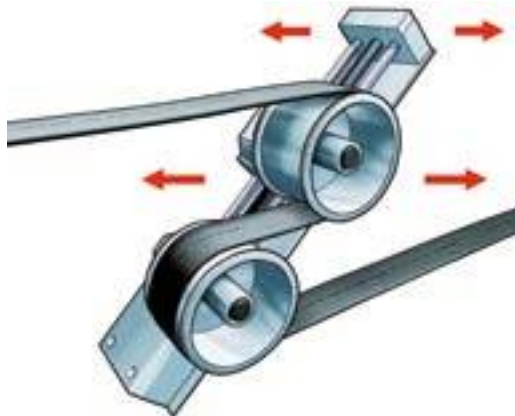
In addition to general quality assurance Datwyler flat cables are subjected to additional test procedures specific to the application. For these testing procedures Datwyler has developed a whole series of high precision testing systems with the support of qualified specialists which make an exhaustive 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



## **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



## **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



## **Smoke density**

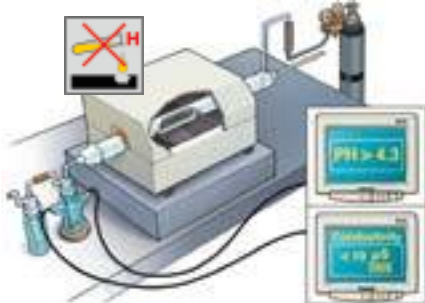
Cables emit minimum smoke in the event of fire. Exit routes and fire brigade access are not restricted.

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



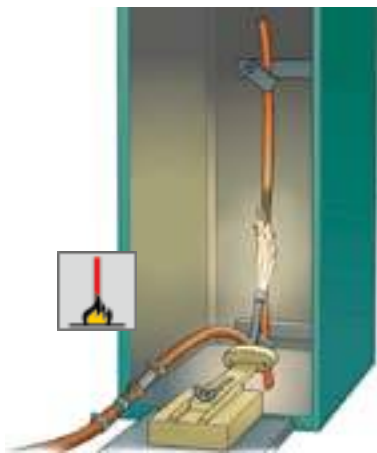
## Test on gases evolved during combustion

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 can be easily identified with this test due to the strong change of pH and conductivity. The conductivity is  $< 10\text{mS/mm}$

### Standards

- 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



## 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

## Product overview and selection criteria for Datwyler elevator cables

		Control cores					Data elements (see page 36/37)																							
							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	Dimensions in mm <sup>2</sup>					4 x 2 x AWG 26	2 x 0.25	2 x 0.34	2 x 0.50	2 x 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	CX 75 Ω	CX 75 Ω	Standards		
FL – PVC flat cable – low rise – unsupported – up to 80 m shaft height																														page 18/19
148775	6777-F	4																												
148776	6777-F	6																												
148777	6777-F	12																												
155412	6777-F	16																												
148779	6777-F	18																												
148780	6777-F	20																												
148833	6777-F	24																												
173808	8555-F	24																												
185282	6488-F	40																												
185283	6488-F	60																												
154413	6777/1-F	7																												
148783	6777-F	9																												
148784	6777-F	12																												
154005	6777-F	18																												
148786	6777-F	20																												
148814	6777-F	24																												
FL – PVC flat cable – low rise – unsupported – up to 80 m shaft height <th>page 20/21</th>																														page 20/21
181658	8304-F	9	3							3																				
185358	8798-F	12																								1				
155424	7747-F	16	4					1								2														
167046	8326-F	20								2																				
184758	8387-F	24														2														
184579	8798-F	24																									1			
167577	8506-F	2	4																				2							
182298	8822-F	12			4				2																	1				
185281	8304-F	12								2																				
181023	8606-F	14			3				4																					
173814	8548-F		4																			2				1				
167019	8216-F		2							8																	1			
167567	8447-F													10																
173809	8580-F													12																
191032	8867-F					4																								
FM – PVC flat cable – mid rise – supported – up to 150 m shaft height <th>page 22/23</th>																														page 22/23
165342	6599-F	20																												
165344	6599-F	24																												
156879	7770-F	24																												
166618	6599-F	18																												
166505	6599-F	24																												
155425	7757-F	16	4					1								2														
176877	6900-F	6	6																			1								
166612	7500-F	12																									1			
177690	8666-F	12																		1										
167088	7757-F	16	4								2	1																		
168190	8483-F	16	4									3																		
167018	8210-F		2							8																	1			
168191	8210-F		4							8																	2			
182058	8820-F		4							8																	2			
185217	8210-F		4							8																	4			
168185	8507-F									12																				
192360	8854/3-H											4																		
191093	8512-F	14			3					4																				
192453	8884-F	8																							4					
* unshielded																														

Flat cables



Accessories

Shaft cabling systems

Information



# Product overview and selection criteria for Datwyler elevator cables

		Control cores					Data elements (see page 36/37)																								
Article no.	Type	Dimensions in mm <sup>2</sup>					4 x 2 x AWG 26	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	Standards		
		0.75	1.00	1.50	2.00	2.50																									
FH – PVC flat cable – high rise – supported – up to 400 m shaft height																														page 24/25	
157219	7877-F	40																													
185284	7877-F	60																													
161448	8292-F	40																				2					1				
176846	8490-F		30																								1				
184645	8846-F		30															2													
192528	8893-F	12															20										1				
FH Module Concept – PVC flat cable – supported – up to 400 m shaft height																														page 26/27	
184646	8847-F		16	7		5											4								2	2					
185372	8847-F		18			10											12									2					
177860	8687-F		40								8										3										
187125	8847-F		16	7		5											4								4						
186276	8858-F		30		12						7												3								
187102	8687-F		30			5											8				3										
188337	8680-F		20			10											4														
192527	8892-F	24	6			20																				4					
FL – Low Fire Hazard – unsupported – up to 80 m shaft height																														page 28/29	
191110	8511-F	12																													
191111	8636-F	12									3																				
185125	8511-F	18																													
191112	8511-F	24																													
182205	8827-F		14			3					4																				
191113	8582-F		24													3												1			
190491	8582-F			2							8																	1			
FM – Low Fire Hazard – supported – up to 150 m shaft height																														page 30/31	
185127	8622-F		12																									1			
185124	8696-F		12																		1										
184674	8849-F										12																				
191094	8872-F		14			3					4																				
FH – Low Fire Hazard – supported – up to 400 m shaft height																														page 32/33	
185126	8585-F		30																		1										
192313	8880-F	12														24												1			
FH Module Concept – Low Fire Hazard – up to 400 m shaft height																														page 34/35	
191114	8859-F		30		12						7												3								
191483	8866-F		6	7		10										12									4	2					
192314	8881-F	24	6			20																			4						
192236	8839-F					35																									
192342	8866-F	42														12										6					
Standards:																															
 EN 50214																															
 JIS C 3408																															
* unshielded																															

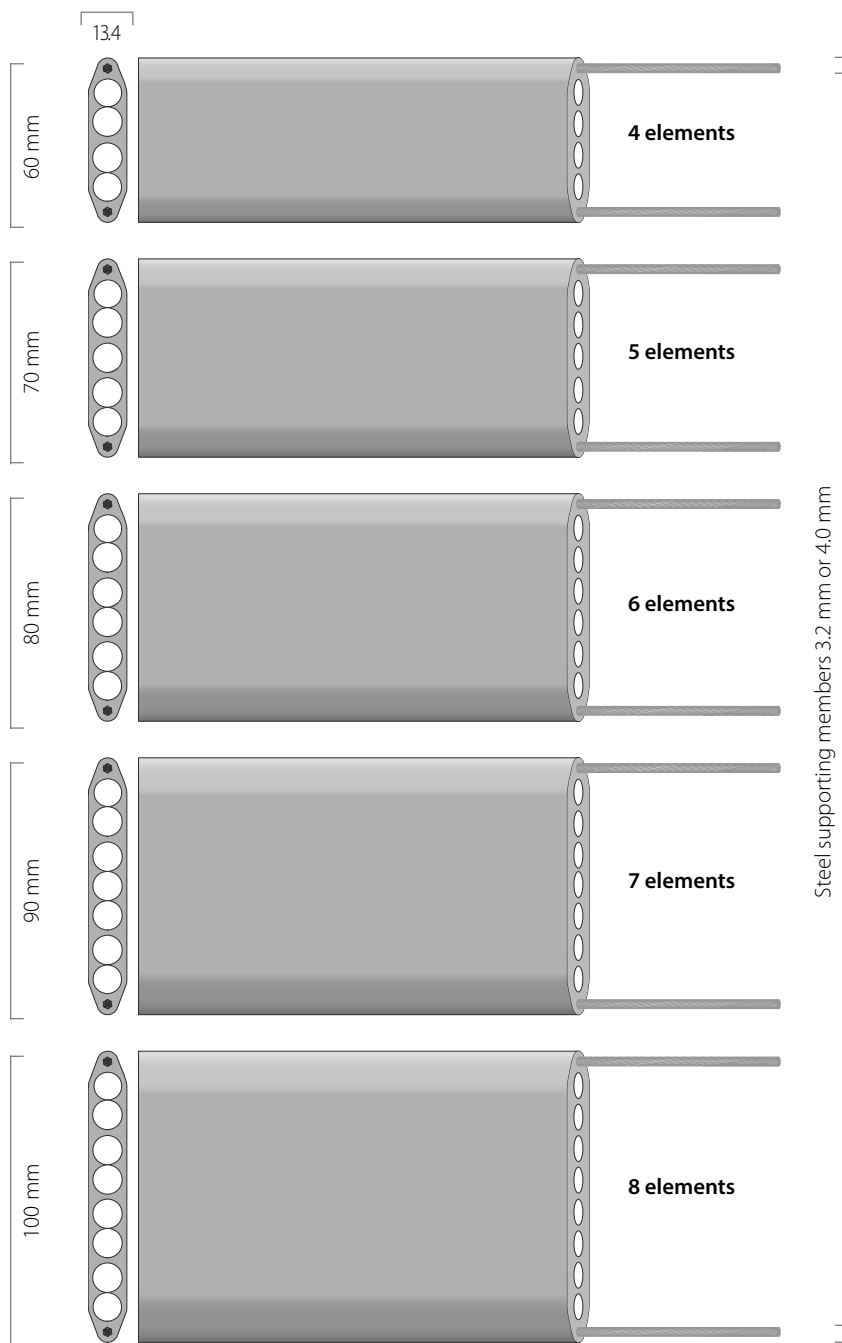
## Datwyler FH Module Concept

### 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 expenditure
- Customized solutions

# Innovative Datwyler module concept

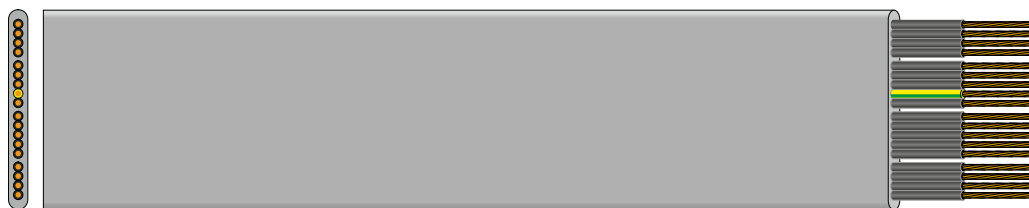
Possible elements

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 <sup>2</sup>	
M2		CH-N05V-F 6240-F CH-N05Z-F 8570-F	10 x 1.00 mm <sup>2</sup>	
M3		CH-N07V-F 6240-F CH-N07Z-F 8570-F	7 x 1.50 mm <sup>2</sup>	
M4		CH-N07V-F 6240-F CH-N07Z-F 8570-F	6 x 2.0 mm <sup>2</sup>	
M5		CH-N07V-F 6240-F CH-N07Z-F 8570-F	5 x 2.50 mm <sup>2</sup>	
M6		CH-N03EC4-F 8667/2-F	3 x 4 x 0.34 mm <sup>2</sup>	8607-F STQ
M7		CH-N03EC7-F 8061/2-F	3 x 4 x 0.50 mm <sup>2</sup>	6347/3-F STQ
M8		CH-N03EA7-F 8662/2-F	7 x 2 x 0.50 mm <sup>2</sup>	6651/2-F FTP
M9		CH-N03EA7-F 8662/2-F	4 x 2 x 0.75 mm <sup>2</sup>	6651/2-F FTP
M10		CH-N05V-Z 8811-Z CH-H05Z-Z 8823/2-Z	8 x 1.00 mm <sup>2</sup> + 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 x 1.00 mm <sup>2</sup> + 4 x 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 <sup>2</sup> + 6 x optical fibre	GF-2314 50 µm GF-2314 62.5 µm
M13		CH-N03EA7-F 8662/2-F	4 x 2 x 0.50 mm <sup>2</sup>	6651/2-F FTP
M14		CH-N03EC7Z1-F 8871-F	3 x 4 x 0.50 mm <sup>2</sup>	6347/3-F STQ
M15		CH-N03EA7Z1-F 8870-F	7 x 2 x 0.50 mm <sup>2</sup>	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.

**FL – PVC – unsupported**



Low rise - travelling height maximum 80 m



















Drawing according to article number 148779 – Type 6777-F

## PRODUCT INFORMATION



<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	PVC
	Data elements:	none
	Supporting members:	none
	Outer sheath:	PVC
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 45 m
	Travelling height:	maximum 80 m
	Running speed:	maximum 4 m/s
	Acceleration:	< 0.8 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	according to table, tolerance -50/+100 mm
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s), JIF compliant types with different colours
	Outer sheath:	grey
<b>STANDARD</b>	 EN 50214	
	 JIS C 3408	



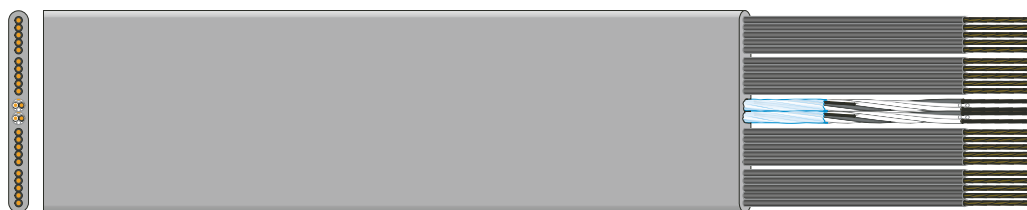
Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
148775	6777-F	4 G 0.75	300/500	13.0 x 4.5	none	8.9	29	none	300	LZ 1006	
148776	6777-F	6 G 0.75	300/500	18.7 x 4.3	none	13.6	43	none	300	LZ 1006	
148777	6777-F	12 G 0.75	300/500	34.0 x 4.3	none	25.8	87	none	300	LZ 1006	
155412	6777-F	16 G 0.75	300/500	44.7 x 4.3	none	34.2	115	none	300	LZ 1006	
148779	6777-F	18 G 0.75	300/500	49.3 x 4.3	none	38.0	130	none	300	LZ 1006	
148780	6777-F	20 G 0.75	300/500	55.2 x 4.3	none	42.5	144	none	300	LZ 1009	
148833	6777-F	24 G 0.75	300/500	65.6 x 4.3	none	50.9	173	none	300	LZ 1009	
173808	8555-F	24 x 0.75	300/300	55.2 x 4.0	none	41.6	173	none	300	LZ 1009	
185282*	6488-F	40 x 0.75	300/500	57.2 x 9.4	none	94.8	309	none	450	LZ 1009	
185283*	6488-F	60 x 0.75	300/500	79.9 x 10.5	none	145.7	446	none	500	LZ 1010	
154413	6777/1-F	7 G 1.00	300/500	23.2 x 4.7	none	19.8	67	none	300	LZ 1006	
148783	6777-F	9 G 1.00	300/500	27.8 x 4.4	none	22.6	86	none	300	LZ 1006	
148784	6777-F	12 G 1.00	300/500	35.3 x 4.4	none	29.2	115	none	300	LZ 1006	
154005	6777-F	18 G 1.00	300/500	51.1 x 4.4	none	43.2	173	none	300	LZ 1006	
148786	6777-F	20 G 1.00	300/500	57.6 x 4.4	none	48.3	192	none	300	LZ 1009	
148814	6777-F	24 G 1.00	300/500	68.4 x 4.4	none	57.8	230	none	300	LZ 1009	

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

Further dimensions on request

**FL – PVC – unsupported**



Low rise - travelling height maximum 80 m


















Drawing according to article number 167046 - Type 8326-F

## PRODUCT INFORMATION



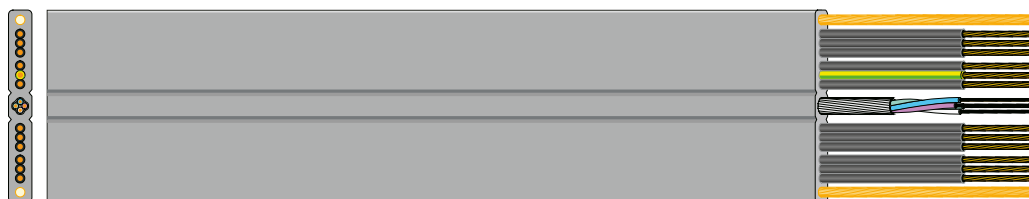
<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	PVC
	Data elements:	details according to page 36/37
	Supporting members:	none
	Outer sheath:	PVC
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 45 m
	Travelling height:	maximum 80 m
	Running speed:	maximum 4 m/s
	Acceleration:	< 0.8 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	according to table, tolerance -50/+100 mm
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s), JIS compliant types with different colours various colours or black with white numbers
	Pair/quad:	grey
	Coaxial :	grey
	Outer sheath:	grey
<b>STANDARD</b>	 EN 50214  JIS C 3408	

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
181658	8304-F	3 G 1.50 + 9 x 0.75 + 3 x 2 x 0.50	450/750 300/500 300/300	48.6 x 5.5	6651-F	44.3	143	none	350	LZ 1006	
185358	8798-F	12 G 0.75 + 1 x CX 75 Ω	300/500	42.3 x 6.5	HF-2122-F	43.8	111	none	400	LZ 1006	
155424	7747-F	4 G 1.00 + 16 x 0.75 + 2 x 4 x 0.25 + 1 x 2 x 0.25	300/500 300/500 250/250 250/250	67.3 x 5.0	7067/2-F 7954/2-F	58.2	187	none	350	LZ 1009	
167046	8326-F	20 x 0.75 + 2 x 2 x 0.50	300/300 300/300	52.0 x 5.3	6651-F	46.9	169	none	350	LZ 1006	
184758	8387-F	24 G 0.75 + 2 x 4 x 0.25	300/500 300/300	73.0 x 5.5	7954/2-F	69.7	216	none	350	LZ 1009	
184579	8798-F	24 x 0.75 + 1 x CX 75 Ω	300/500	72.3 x 6.8	HF-2122-F	77.8	197	none	400	LZ 1009	
167577	8506-F	4 x 1.50 + 2 x 1.00 + 2 x 4 x 0.50	450/750 300/500 300/500	34.1 x 7.6	8504-F	43.4	141	none	400	LZ 1006	
182298	8822-F	4 G 2.50 + 12 x 1.00 + 2 x 2 x 0.34 + 1 x CX 75 Ω	450/750 300/500 300/300	67.7 x 6.5	7345-F HF-2122-F	77.8	254	none	400	LZ 1009	
185281	8304-F	12 G 1.00 + 2 x 2 x 0.50	300/500 300/300	46 x 5.4	6651-F	42.2	140	none	350	LZ 1006	
181023	8606-F	3 G 2.50 + 14 x 1.00 + 4 x 2 x 0.34	450/750 300/500 300/300	72.0 x 5.7	7345-F	72.6	244	none	350	LZ 1009	
173814	8548-F	4 x 1.50 + 2 x 4 x 0.50 + 1 x CX 75 Ω	450/750 300/300	32.9 x 7.4	8504-F HF-2122-F	41.1	146	none	400	LZ 1006	
167019	8216-F	2 x 1.50 + 8 x 2 x 0.50 + 1 x CX 75 Ω	450/750 300/300	46.3 x 7.0	6651-F HF-2122-F	50.5	149	none	400	LZ 1006	
167567	8447-F	10 x 2 x 0.75	300/300	46.2 x 6.4	6651-F	43.6	171	none	400	LZ 1006	
173809	8580-F	12 x 2 x 0.75	300/300	51.6 x 6.3	6651-F	50.8	205	none	400	LZ 1006	
191032	8867-F	4 x 4 x 2 x AWG26 G = with green-yellow core(s)	300/300	29.4 x 8.4	7702 flex 4P	31.5	71	none	500	LZ 1006	

Further dimensions on request

**FM – PVC – supported**

Mid rise - travelling height maximum 150 m



Drawing according to article number 177690 - Type 8666-F

## PRODUCT INFORMATION






















<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	PVC
	Data elements:	details according to page 36/37
	Supporting members:	HTF = High tensile fibre, ST = Steel, diameter in [mm]
	Outer sheath:	PVC
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 80 m
	Travelling height:	maximum 150 m
	Running speed:	maximum 6.3 m/s
	Acceleration:	< 1.2 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	according to table, tolerance -50/+100 mm
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s)
	Pair/quad:	various colours or black with white numbers
	Coax:	grey
	Outer sheath:	grey
<b>STANDARD</b>	 EN 50214	



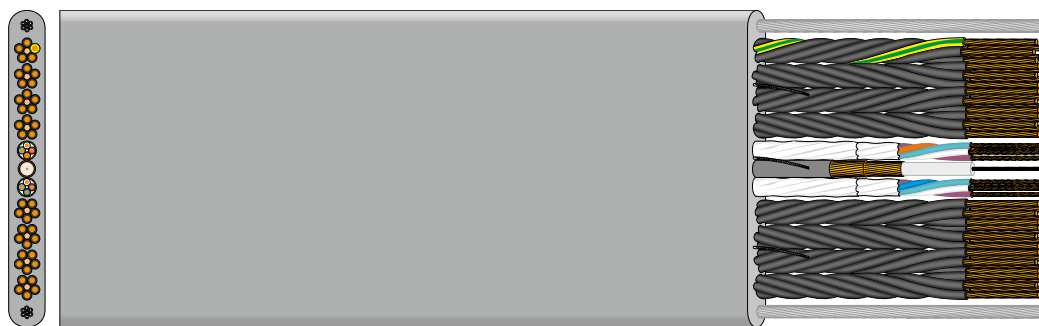
# FM – PVC – supported

Mid rise - travelling height maximum 150 m

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
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	
166505	6599-F	24 G 1.00	300/500	75.4 x 4.4	none	63.0	230	HTF	300	LZ 1009	
155425	7757-F	4 G 1.00 + 16 x 0.75 + 2 x 4 x 0.25 + 1 x 2 x 0.25	300/500 300/500 250/250 250/250	74.8 x 5.0	7067/2-F 7954/2-F	65.9	187	ST Ø 2.5	450	LZ 1009	
176877	6900-F	6 G 1.50 + 6 x 1.00 + 1 x 4 x 0.50	450/750 300/500 300/300	53.0 x 6.4	6347/3-F	59.6	173	HTF	400	LZ 1006	
166612	7500-F	12 G 1.00 + 1 x CX 75 Ω	300/500	50.9 x 6.4	HF-2122-F	53.0	139	HTF	400	LZ 1006	
177690	8666-F	12 G 1.00 + 1 x 4 x 0.34	300/500 300/300	50.9 x 6.4	8607-F	52.5	142	HTF	400	LZ 1006	
167088	7757-F	4 G 1.50 + 16 x 1.00 + 2 x 2 x 0.50 + 1 x 2 x 0.50	450/750 300/500 300/300 300/300	78.5 x 5.8	7067/2-F 7954/2-F	84.3	250	ST Ø 2.5	450	LZ 1009	
168190	8483-F	4 G 1.50 + 16 x 1.00 + 3 x 2 x 0.50	450/750 300/500 300/500	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 + 1 x CX 75 Ω + 8 x 2 x 0.50	450/750 300/300	54.1 x 7.1	HF-2122-F 6651-F	58.0	149	HTF	450	LZ 1006	
168191	8210-F	4 x 1.50 + 2 x CX 75 Ω + 8 x 2 x 0.50	450/750 300/300	64.3 x 7.0	HF-2122-F 6651-F	71.6	201	HTF	450	LZ 1009	
182058	8820-F	4 x 1.50 + 2 x CX 75 Ω + 8 x 2 x 0.50	450/750 300/300	64.3 x 7.0	HF-2122-F 6651-F	74.5	201	ST Ø 2.5	500	LZ 1009	
185217	8210-F	4 x 1.50 + 4 x CX 75 Ω + 8 x 2 x 0.50	450/750 300/300	72.8 x 7.0	HF-2122-F 6651-F	82.5	249	HTF	450	LZ 1009	
168185	8507-F	12 x 2 x 0.50	300/300	54.1 x 5.6	6651-F	44.9	147	HTF	400	LZ 1006	
192360	8854/3-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	
191093	8512-F	3 G 2.50 + 14 x 1.00 + 4 x 2 x 0.50	450/750 300/500 300/300	79.0 x 5.7	6651-F	80.6	232	ST Ø 2.5	400	LZ 1009	
192453	8884-F	8 x 0.75 + 4 x FO G50/125	300/500	40.8 x 4.3	GF-2314	30.2	58	ST Ø 2.5	400	LZ 1006	
G = with green-yellow core(s)											

**FH – PVC – supported**

High rise - travelling height maximum 400 m



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:	class 5
Core insulation:	PVC
Data elements:	details according page 36/37
Supporting members:	ST = Steel, diameter in [mm]
Outer sheath:	PVC

**ELECTRICAL PROPERTIES**

Rated voltage U <sub>0</sub> /U:	according to table
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**MECHANICAL PROPERTIES**







Free suspension length:	maximum 220 m
Travelling height:	maximum 400 m
Running speed:	maximum 12 m/s
Acceleration:	< 1.2 m/s <sup>2</sup>
Operating temperature:	-15 to +70 °C
Recommended loop diameter:	according to table, tolerance -50/+100 mm

**COLOUR CODE**

Core:	black, white numbered, G = with green-yellow core(s)
Pair/quad:	various colours or black with white numbers
Coax:	grey
Outer sheath:	grey

**STANDARD**

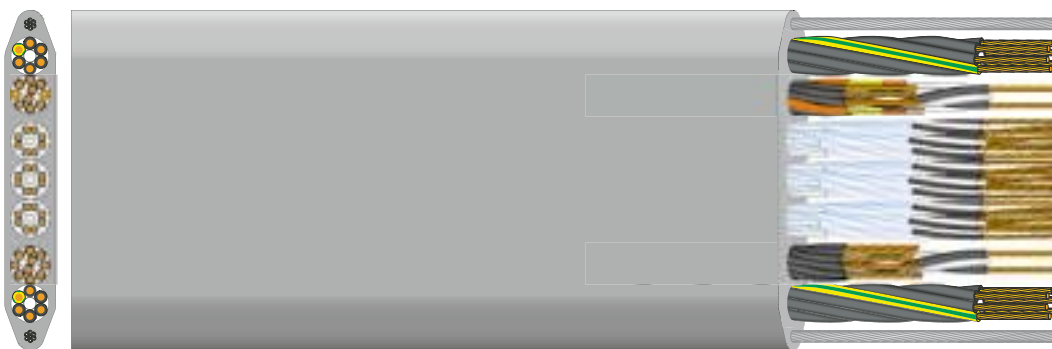
EN 50214

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
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	
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								
		+ 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								
		+ 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								
		+ 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								
		+ 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 green-yellow core(s)									

Further dimensions on request

**FH Module Concept – PVC**

High rise - travelling height maximum 400 m



Drawing according to article number 185372 - Type 8847-F

## PRODUCT INFORMATION



<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	PVC
	Data elements:	details according to page 36/37
	Supporting members:	ST = Steel, diameter in [mm]
	Outer sheath:	PVC
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 220 m
	Travelling height:	maximum 400 m
	Running speed:	maximum 12 m/s
	Acceleration:	< 1.2 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	approx. 600 mm, Tolerance -50/+150 mm
<b>SUSPENSION DEVICE</b>	LZ 4001	
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s)
	Pair/quad:	various colours or black with white numbers
	Coax:	grey
	Optical fibres:	orange 50 µm, grey 62.5 µm
	Outer sheath:	grey
<b>STANDARD</b>	 EN 50214	

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Bundle type p. 17	No. of elements	Data elements	Overall dimensions approx. [w x h] [mm x mm]	Supporting members	Weight approx. [kg/100m]	Copper content [kg/km]	Standards
184646	8847-F	5 G 2.50 + 7 x 1.50 + 16 x 1.00 + 4 x 2 x 0.75 + 2 x FO G50/125 + 2 x FO G62.5/125	450/750 450/750 300/500 300/300 300/300	M5, M2, M9, M11, M3	5	6651/2-F GF-2314	70.0 x 13.4	ST Ø 4.0	152.5	448	EN
185372	8847-F	10 G 2.50 + 18 x 1.00 + 12 x 2 x 0.75 + 2 x FO G62.5/125	450/750 300/500 300/300	M5, M2 M9, M9 M9, M10, M5	7	6651/2-F GF-2314	90.0 x 13.4	ST Ø 4.0	198.7	629	EN
177860	8687-F	40 G 1.00 + 8 x 2 x 0.50 + 3 x 4 x 0.34	300/500 300/300 300/300	M2, M2, M13, M6, M13, M2, M2	7	6651/2-F 8607-F	86.6 x 13.4	ST Ø 3.2	175.0	578	EN
187125	8847-F	5 G 2.50 + 7 x 1.50 + 16 x 1.00 + 4 x 2 x 0.75 + 4 x FO G50/125	450/750 450/750 300/500 300/300 300/300	M5, M2, M9, M11, M3	5	6651/2-F GF-2314	70.0 x 13.4	ST Ø 4.0	150.9	448	EN
186276	8858-F	12 G 2.00 + 30 x 1.00 + 7 x 2 x 0.50 + 3 x 4 x 0.50	450/750 300/500 300/300 300/300	M4 M2, M8 M2, M7, M2, M4	7	6651/2-F 6347/3-F	88.7 x 13.4	ST Ø 4.0	196.8	698	EN
187102	8687-F	5 G 2.50 + 30 G 1.00 + 8 x 2 x 0.75 + 3 x 4 x 0.34	450/750 300/500 300/300 300/300	M5, M2, M9, M6, M9, M2, M2	7	6651/2-F 8607-F	87.6 x 13.4	ST Ø 4.0	188.0	638	EN
188337	8680-F	10 G 2.50 + 20 x 1.00 + 4 x 2 x 0.75	450/700 300/500 300/300	M5, M2, M9, M2, M5	5	6651/2-F	70.0 x 13.4	ST Ø 4.0	155.7	513	EN
192527	8892-F	20 G 2.50 + 6 x 1.00 + 24 x 0.75 + 4 x FO G62.5/125	450/750 300/500 300/300	M5, M5, M1, M11, M1, M5, M5	7	GF-2314	90.0 x 13.4	ST Ø 4.0	199.3	730	EN

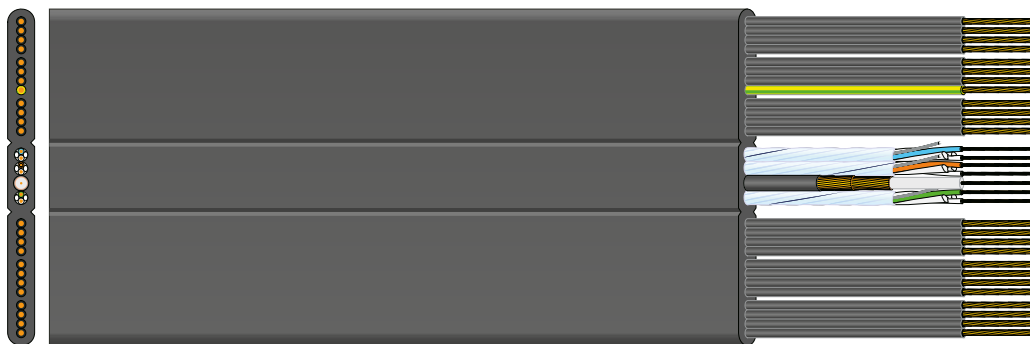
G = with green-yellow core(s)

Further dimensions on request



**FL – Low Fire Hazard – unsupported**

Low rise - travelling height maximum 80 m



Drawing according to article number 191113 - Type 8582-F








## PRODUCT INFORMATION



<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	low fire hazard
	Data elements:	details according to page 36/37
	Supporting members:	none
	Outer sheath:	low fire hazard
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 45 m
	Travelling height:	maximum 80 m
	Running speed:	maximum 4 m/s
	Acceleration:	< 0.8 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	according to table, tolerance -50/+100 mm
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s)
	Pair/quad:	various colours or black with white numbers
	Coax:	black
	Outer sheath:	black
<b>STANDARD</b>	 EN 50214	

## FL – Low Fire Hazard – unsupported

Low rise - travelling height maximum 80 m

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>o</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
191110	8511-F	12 G 0.75	300/500	34.3 x 4.4		26.0	87	none	300	LZ 1006	
185125	8511-F	18 G 0.75	300/500	49.4 x 4.4		38.4	130	none	300	LZ 1006	
191112	8511-F	24 G 0.75	300/500	66.7 x 4.4		51.4	173	none	300	LZ 1009	
191111	8636-F	12 G 0.75	300/500								
		+ 3 x 2 x 0.50	300/300	47.4 x 5.4	6651-F	42.7	123	none	400	LZ 1006	
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	
191113	8582-F	24 G 1.00	300/500								
		+ 3 x 2 x 0.75	300/300		6651-F						
		+ 1 x CX 75 Ω		87.3 x 6.5	HF-2123-F	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		47.8 x 7.1	HF-2123-F	54.0	149	none	450	LZ 1006	
		G = with green-yellow core(s)									

Further dimensions on request

Flat cables

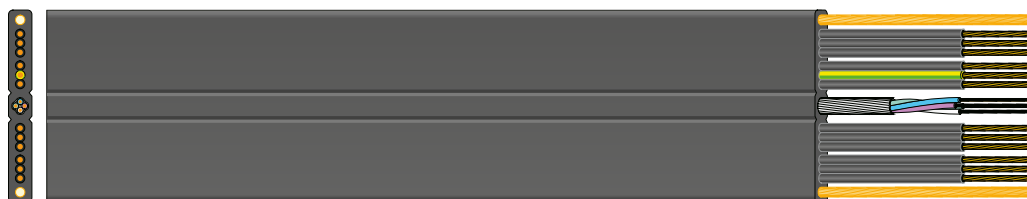
Accessories

Shaft cabling systems

Information

**FM – Low Fire Hazard – supported**

Mid rise - travelling height maximum 150 m



Drawing according to article number 185124 - Type 8696-F





## PRODUCT INFORMATION



<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	low fire hazard
	Data elements:	details according to page 36/37
	Supporting members:	HTF = High tensile fibre
	Outer sheath:	low fire hazard
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 80 m
	Travelling height:	maximum 150 m
	Running speed:	maximum 6.3 m/s
	Acceleration:	< 1.2 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	according to table, tolerance -50/+100 mm
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s)
	Pair/quad:	various colours or black with white numbers
	Coax:	black
	Outer sheath:	black
<b>STANDARD</b>	 EN 50214	

# FM – Low Fire Hazard – supported

Mid rise - travelling height maximum 150 m

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
185127	8622-F	12 G 1.00	300/500								
		+ 1 x CX 75 Ω		48.4 x 6.0	HF-2123-F	49.8	139	HTF	400	LZ 1006	
185124	8696-F	12 G 1.00	300/500								
		+ 1 x 4 x 0.34	300/300	48.4 x 6.0	8607-F	50.1	142	HTF	400	LZ 1006	
184674	8849-F	12 x 2 x 0.50	300/300	55.8 x 5.6	6651-F	49.6	116	HTF	400	LZ 1009	
191094	8872-F	3 G 2.50	450/750								
		+ 14 x 1.00	300/500								
		+ 4 x 2 x 0.50	300/300	79.0 x 5.7	6651-F	83.8	232	HTF	400	LZ 1009	
		G = with green-yellow core(s)									

Further dimensions on request

Flat cables

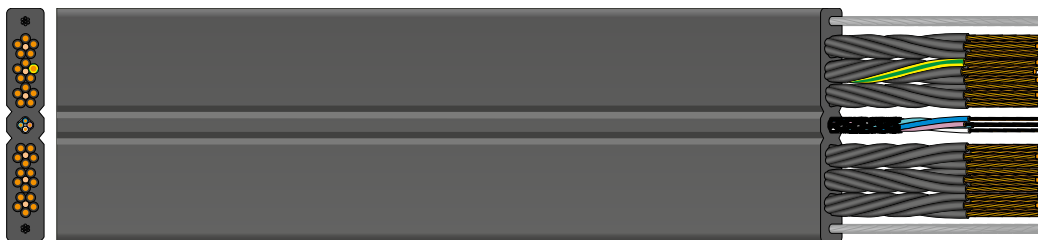
Accessories

Shaft cabling systems

Information

**FH – Low Fire Hazard – supported**

High rise - travelling height maximum 400 m



Drawing according to article number 185126 - Type 8585-F



## PRODUCT INFORMATION



<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	low fire hazard
	Data elements:	details according to page 36/37
	Supporting members:	ST = Steel, diameter in [mm]
	Outer sheath:	low fire hazard
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 220 m
	Travelling height:	maximum 400 m
	Running speed:	maximum 12 m/s
	Acceleration:	< 1.2 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	according to table, tolerance -50/+100 mm
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s)
	Pair/quad:	various colours or black with white numbers
	Outer sheath:	black
<b>STANDARD</b>	 EN 50214	

## FH – Low Fire Hazard – supported

High rise - travelling height maximum 400 m

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>o</sub> /U [V]	Overall dimensions approx. [w x h] [mm x mm]	Data elements	Weight approx. [kg/100m]	Copper content [kg/km]	Supporting members	Loop [mm]	Suspension device	Standards
185126	8585-F	30 G 1.00	300/500								
		+ 1 x 4 x 0.34	300/300	61.8 x 9.7	8607-F	106.8	335	ST Ø 2.5	550	LZ 4001	
192313	8880-F	12 G 0.75	300/500								
		+ 24 x 2 x 0.75	300/300		6651/2-F						
		+ 1 x CX 75 Ω		98.5 x 14.5	HF-2123-F	188.3	532	ST Ø 4.0	550	LZ 4001	
		G = with green-yellow core(s)									

Further dimensions on request

Flat cables

Accessories

Shaft cabling systems

Information



**FH Module Concept – Low Fire Hazard**

High rise - travelling height maximum 400 m



Drawing according to article number 191114 - Type 8859-F






## PRODUCT INFORMATION



<b>APPLICATION</b>	Elevator suspension cable for indoor and panoramic elevators.	
<b>INSTALLATION</b>	To comply with the correct installation procedures please refer to the Datwyler installation manual which is available separately.	
<b>CONSTRUCTION</b>	Core flexible:	class 5
	Core insulation:	low fire hazard
	Data elements:	details according to page 36/37
	Supporting members:	ST = Steel, diameter in [mm]
	Outer sheath:	low fire hazard
<b>ELECTRICAL PROPERTIES</b>	Rated voltage U <sub>0</sub> /U:	according to table
<b>MECHANICAL PROPERTIES</b>	Free suspension length:	maximum 220 m
	Travelling height:	maximum 400 m
	Running speed:	maximum 12 m/s
	Acceleration:	< 1.2 m/s <sup>2</sup>
	Operating temperature:	-15 to +70 °C
	Recommended loop diameter:	approx. 650 mm, tolerance -50/+150 mm
<b>SUSPENSION DEVICE</b>	LZ 4001	
<b>COLOUR CODE</b>	Core:	black, white numbered, G = with green-yellow core(s)
	Pair/quad:	various colours or black with white numbers, bundle with black sheath
	Coax:	black
	Optical fibres:	orange 50 µm, grey 62.5 µm
	Outer sheath:	black
<b>STANDARD</b>	 EN 50214	

# FH Module Concept – Low Fire Hazard

High rise - travelling height maximum 400 m

Article no.	Type	Cross sectional area [n x mm <sup>2</sup> ]	Rated voltage U <sub>0</sub> /U [V]	Bundle type p. 17	No. of elements	Data elements	Overall dimensions approx. [w x h] [mm x mm]	Supporting members	Weight approx. [kg/100m]	Copper content [kg/km]	Standards
191114	8859-F	12 G 2.00 + 30 x 1.00 + 7 x 2 x 0.50 + 3 x 4 x 0.50	450/750 300/500 300/300 300/300	M4, M2, M15, M2, M14, M2, M4	7	6651/2-F 6347/3-F	90.7 x 14.0	ST Ø 4.0	199.8	698	
191483	8866-F	10 G 2.50 + 7 x 1.50 + 6 x 1.00 + 12 x 2 x 0.75 + 4 x FO G50/125	450/750 450/750 300/500 300/300	M3 M5, M9 M5, M9 M11, M9	7	6651/2-F GF-2314	94.0 x 14.0	ST Ø 4.0	215.5	616	
192314	8881-F	20 G 2.50 + 6 x 1.00 + 24 x 0.75 + 4 x FO G50/125	450/750 300/500 300/500	M5, M5, M1, M11, M1, M5, 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, M5, M5, M5, M5	7		90.0 x 13.4	ST Ø 4.0	214.5	860	
192342	8866-F	42 G 0.75 + 12 x 2 x 0.75 + 6 x FO G50/125	300/500 300/500	M1, M1, M9, M9, M9, M12, M1	7	6651/2-F GF-2314	90.5 x 14.8	ST Ø 4.0	178.7	522	

G = with green-yellow core(s)

Further dimensions on request



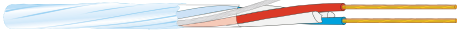







Flat cables

Accessories

Shaft cabling systems







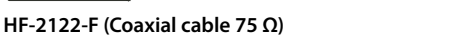
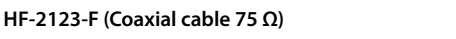


Information

## Data elements for Datwyler travelling cables

	Data elements	Cross section	Colour code	Construction
1	 <b>7702 flex 4P</b>	4 x 2 x AWG26 S/FTP	white/blue, red/orange, black/green, yellow/brown	PE cores Al/PETP foil per pair Overall tinned Cu wire braid PVC sheath
2	 <b>7954/2-F</b>	2 x 0.25 STP	white/blue	PE cores PE filler (2x) PETP tape Tinned Cu wire spiral PETP tape
3	 <b>7345-F</b>	2 x 0.34 FTP	various colours	PE cores PP filler (2x) PETP tape Tinned Cu drain wire Al/PETP foil
4	 <b>7067/2-F (unshielded)</b>	2 x 0.50 UTP	various colours	PE cores PP filler (2x) PETP tape
5	 <b>6651-F</b>	2 x 0.50 FTP	various colours	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil
6	 <b>6651/2-F</b>	2 x 0.50 FTP	black, white numbered	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil PP tape
7	 <b>6651/3-H</b>	2 x 0.50 FTP	black, white numbered	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil PP tape
8	 <b>7954/2-F</b>	2 x 0.50 STP	various colours	PE cores PE filler (2x) PETP tape Tinned Cu wire spiral PETP tape
9	 <b>6651-F</b>	2 x 0.75 FTP	various colours	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil
10	 <b>6651/2-F, 6651/3-F</b>	2 x 0.75 FTP	black, white numbered	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil PP tape

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

## Data elements for Datwyler travelling cables

	Data elements	Cross section	Colour code	Construction
11	 <b>7067/2-F (unshielded)</b>	4 x 0.25 UTQ	various colours	PP centre PE cores PETP tape
12	 <b>7954/2-F</b>	4 x 0.25 STQ	various colours	PP centre PE cores PETP tape Tinned Cu wire spiral PETP tape (2x)
13	 <b>8607-F</b>	4 x 0.34 STQ	various colours	PE cores PP foam tape Tinned Cu wire braid PP tape
14	 <b>6347/2-F</b>	4 x 0.50 STQ	various colours	PE cores PP tape Tinned Cu wire spiral PP tape
15	 <b>6347/3-F</b>	4 x 0.50 STQ	various colours	PE cores PP tape Tinned Cu wire spiral PP tape (2x)
16	 <b>8504-F</b>	STQ	various colours	PE cores PETP tape Tinned Cu wire spiral PETP tape PVC sheath
17	 <b>HF-2122-F (Coaxial cable 75 Ω)</b>	n/a	grey	Bare Cu strand PE dielectric Al/PETP foil Tinned Cu wire braid PVC sheath
18	 <b>HF-2123-F (Coaxial cable 75 Ω)</b>	n/a	black	Bare Cu strand PE dielectric Al/PETP foil Tinned Cu wire braid Low fire hazard sheath
19	 <b>GF-2314 (G50/125)</b>	n/a	orange	Multimode fibre G50/125 µm OM2 Tight buffer Aramid yarn Low fire hazard sheath
20	 <b>GF-2314 (G62.5/125)</b>	n/a	grey	Multimode fibre G62.5/125 µm OM1 Tight buffer Aramid yarn Low fire hazard sheath

Flat cables

Accessories

Shaft cabling systems

Information

## ACCESSORIES

### Suspension devices for FL and FM 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.

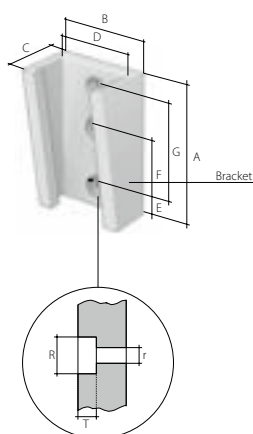
### MATERIAL

Nylon PA6  
Aluminium

LZ 1006 / LZ 1009  
LZ 1010

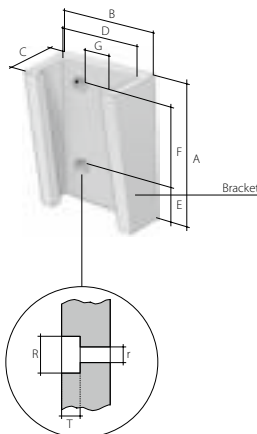
grey  
blue anodised

### DIMENSIONS



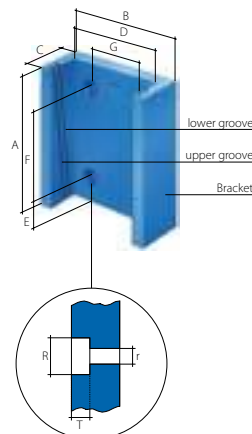
#### LZ 1006

A = 100 mm  
B = 65 mm  
C = 47 mm  
D = 55 mm  
E = 13.5 mm  
F = 43 mm  
G = 73 mm  
R = Ø 13.9 mm  
r = Ø 6.45 mm  
T = 5.2 mm



#### LZ 1009

A = 120 mm  
B = 92 mm  
C = 51.5 mm  
D = 79 mm  
E = 27 mm  
F = 73 mm  
G = 40 mm  
R = Ø 13.9 mm  
r = Ø 6.45 mm  
T = 5.2 mm



#### LZ 1010

A = 140 mm  
B = 120 mm  
C = 50 mm  
D = 100 mm  
E = 22 mm  
F = 96 mm  
G = 60 mm  
R = Ø 15.0 mm  
r = Ø 9.0 mm  
T = 6.0 mm

Article no.	Type	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 instructions

### suspension devices for FL and FM cables

## 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 ≤ 55 mm

#### LZ 1009 (grey)

Clamping range A = 3 - 15 mm  
Width of cable ≤ 56 - 79 mm

#### LZ 1010 (blue)

Clamping range A = 3 - 22 mm  
Width of cable ≤ 80 - 100 mm



### 2 Cable combination for FL

Maximum 3 cables  
Different cable widths are possible



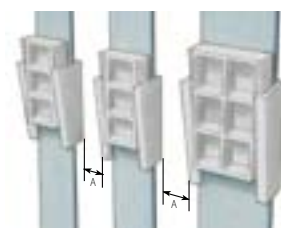
### 3 Cable combination for FM

Maximum 3 cables  
Combinations only with equal cable widths



### 4 Fixing several adjacent suspension devices

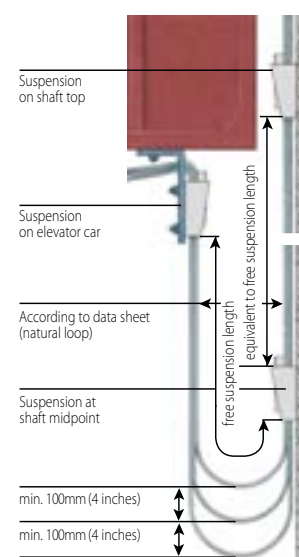
Spacing A = minimum 50 mm



### 5 Installation positions of suspension devices for FL and FM cables

	FL	FM
Maximum travelling height	80 m (260 feet)	150 m (490 feet)
Maximum free suspension length (m)	45 m (150 feet)	80 m (260 feet)

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



### 6 Minimum loop spacing for cable combination

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

### 7 Installation below machine room

Only one cable per suspension device.

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

Loop cable back on itself.



Printing to shaft wall





## 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

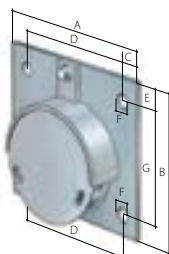
Steel suspension device for a maximum of two Datwyler FH elevator travelling cables.

### INSTALLATION

The following installation screw sets are available for LZ 4001:

Elevator car or counter weight: 4 bolts M12x40 including spring-washer, washer and nut (see figure 2),  
bolt: property class 8.8/8 (nut)  
Shaft wall: 4 Hilti HSL-3 M8/20 (see figure 3),  
(minimum concrete strength required:  $b_w = 30 \text{ N/mm}^2$ )

### DIMENSIONS



#### LZ 4001

A = 220 mm  
B = 170 mm  
C = 30 mm  
D = 160 mm  
E = 25 mm  
F = Ø13 mm  
G = 120 mm  
thickness of ground plate = 5 mm

### CRIMPING SLEEVE

For recommended crimping sleeves see "Installation Tools" (page 42).

Suspension device LZ 4001 for FH cables

Article no.	Type	Figure
184606	LZ 4001	1

Installation kits

Article no.	Type	Application	Figure	PU
185214	Screw set M12x40	for fixing to elevator car or counter weight	2	2 pcs.
185215	Hilti HSL-3 M8/20	for fixing to shaft wall	3	2 pcs.

## Installation instructions suspension device for FH cables

### Installation of suspension device / FH elevator travelling cables

#### 1 Forming a loop

Draw other end of steel wire rope through second sleeve.  
Use tape for parallel fixation



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

Compress sleeve according table

Ø Steel wire (mm)	Sleeve article no.	Type	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

$A1 / A2 =$  Spacing distance between steel wire ropes



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



#### 3 Combination with different cable widths

Cable with bigger dimension should be outside



#### 4 Installation of multiple suspension devices side by side

Spacing A = minimum 160 mm  
(concrete strength required  
 $bw = 30 \text{ N/mm}^2$ )

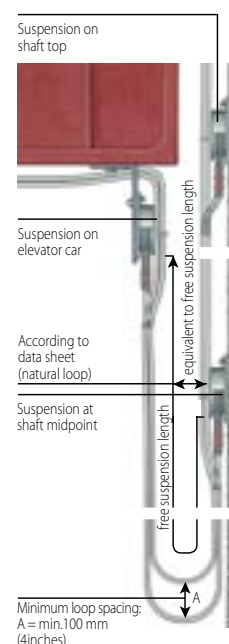


#### 5 Installation position of suspension device for FH cables

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.



#### 6 Installation below 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



## Installation tools

Fig. 1: AV 150



Fig. 2: AV 400



Fig. 3: FH tool box (Fig. 2-11: contents)



## 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.

**Professional FH tool box**

with indispensable tools and accessories for installation of FH cables

Contents:	4. Wire rope cutter big	cuts steel wire ropes up to diameter of 8 mm
	5. Wire rope cutter small	cuts steel wire ropes up to diameter of 4 mm
	6. Stripping knife	special knife to commence the removal of the cable jacket
	7. Crimping tool	tool for splicing of steel wire ropes
	8. Crimping sleeves small	for rope diameters of 2.5 mm, set of 10 pieces
	8. Crimping sleeves large	for rope diameters of 3.2 mm, set of 10 pieces
	2. 2x auxiliary device AV 400	for elevator shaft heights up to 400 m
	9. Cutter	
	10. Universal scissors	
	11. Steel wire ropes	

**Cutters, crimping tool, crimping sleeves, etc.**

The above mentioned accessories are also available separately.

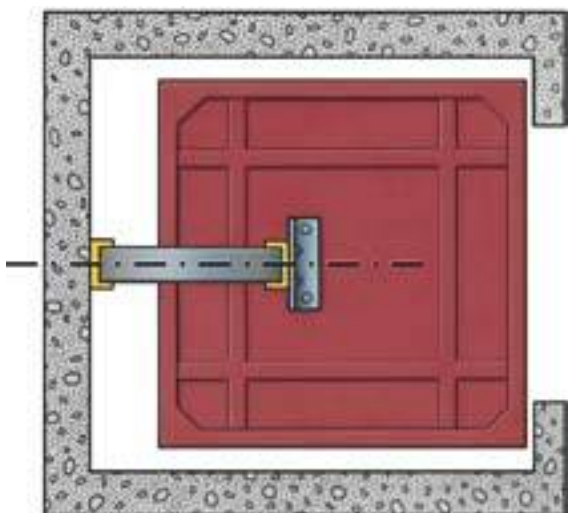
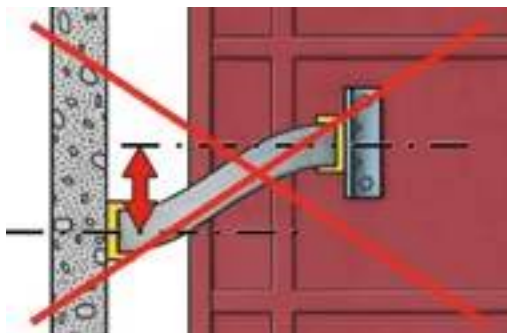
Article no.	Figure	Type	Description
176812	1	AV 150	for elevator shaft heights up to 150 m
176811	2	AV 400	for elevator shaft heights up to 400 m
179278	3	FH tool box	
184575	4	Wire rope cutter big	cuts steel wire ropes up to diameter of 8 mm
166670	5	Wire rope cutter small	cuts steel wire ropes up to 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	

## Installation instructions for AV 150 and AV 400 installation aid

### Installation instructions for all travelling heights

#### 1 Installation position on shaft and car floor

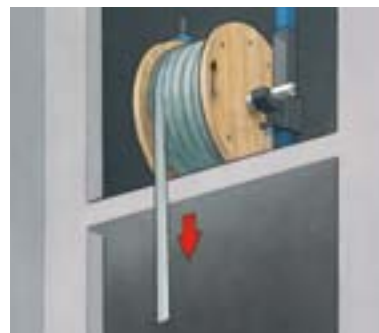
Positions must be aligned.



#### 2 Paying out of cables into the shaft

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

Use of guiding pulleys:  
Minimum  $\varnothing$  28x cable thickness t.

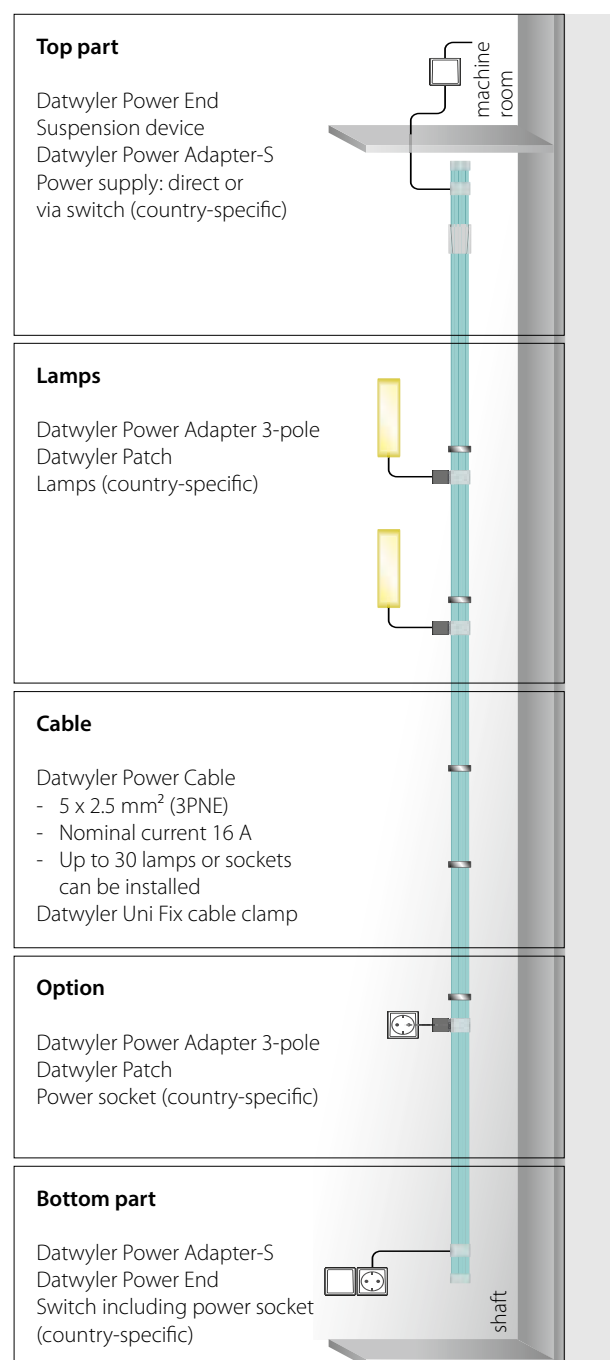


## Shaft lighting system

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.

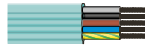






### Features and advantages:

- Fast and easy installation
- Flexible in mounting of lamps, adapter and switch elements
- Order per commission
- 2.5 mm<sup>2</sup> wires, low voltage drop on serial connectors
- Low total costs



## Shaft lighting system

### Components

Cable plus	Description	Article no.
	<b>Datwyler Power Cable</b> 5x2.5mm <sup>2</sup>	187048
	<b>Datwyler Uni Fix cable clamp</b>	1300290
	<b>Suspension device LZ 1006</b>	179813
Option	Description	Article no.
	<b>Datwyler Patch 3x1.5 MC (L = 1 m)</b>	1300511
	<b>Datwyler Combi Tool cable stripper</b>	1300240
	<b>Datwyler Power Adapter-S (250V)</b>	1301076
	<b>Datwyler Power Adapter 3-pole (250V)</b>	1300972
	<b>Datwyler Power End</b>	1300875

Customised solutions available on request!

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.

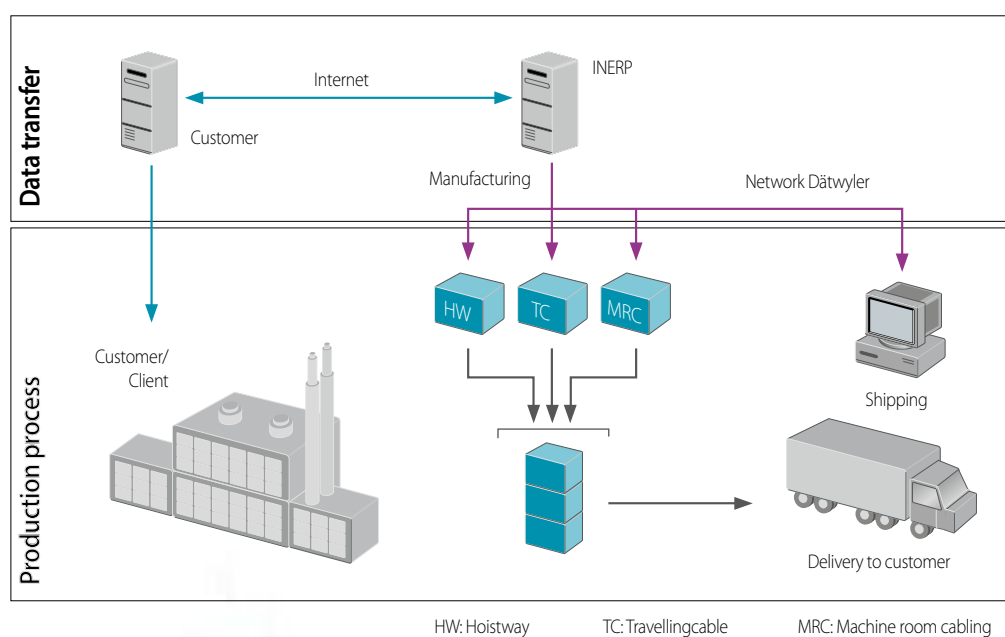


## Logistics

### 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



## FURTHER DATWYLER PRODUCT LINES

Are you interested in Datwyler's high-quality products and solutions?  
Then please visit our home page at [www.cabling.datwyler.com](http://www.cabling.datwyler.com).  
Use our contact form to order the latest edition of our product catalogues!



### Catalogue

#### **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



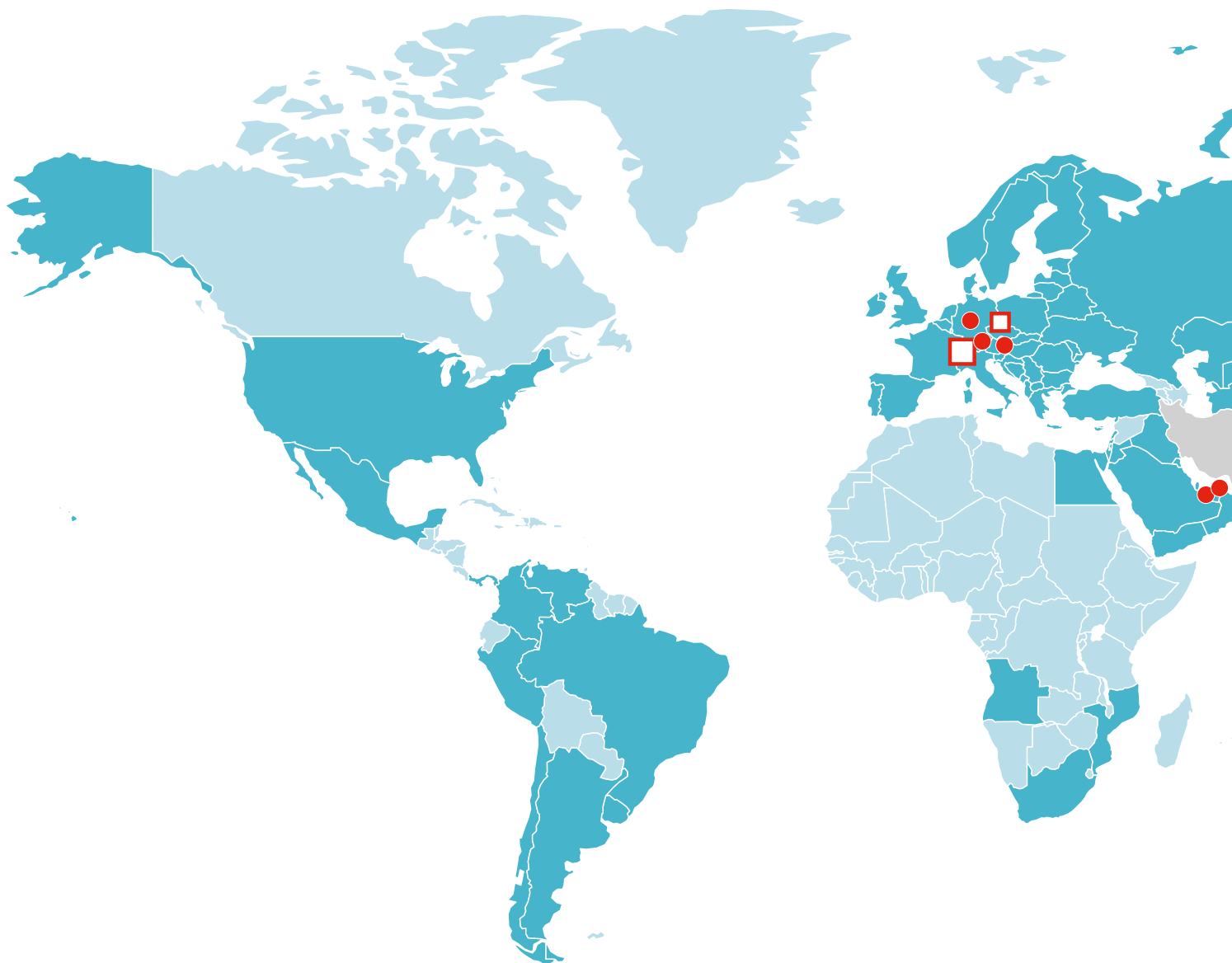
### Catalogue





#### **FTTH - FIBER TO THE HOME**

Cutting-edge total solutions for superfast fibre-optic broadband networks

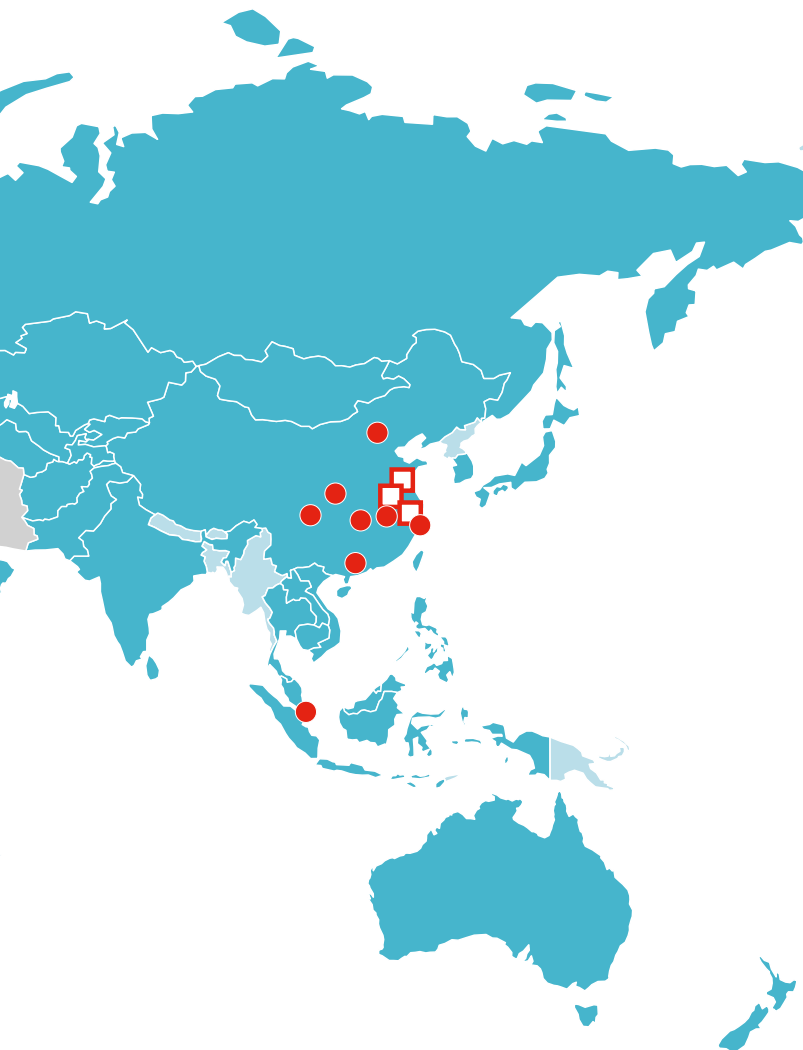
## Offices and distribution partners

## GLOBAL MARKET COMPETENCE



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

Are you searching for a distribution partner in our export markets?  
**Please visit [www.cabling.datwyler.com](http://www.cabling.datwyler.com) for details of our partners**  
 or contact our relevant branches.



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