ELEVATOR CABLING SOLUTIONS

POWER AND INTELLIGENCE FOR MODERN ELEVATORS

2021/2022

DATWYLER

DATWYLER - THE PREFERRED CHOICE FOR GLOBAL ELEVATOR COMPANIES

CONTENTS

DATWYLER

Datwyler is a global player that helps organisations stay at the forefront of progress, elevating their core business with state-of-the-art IT infrastructure solutions. Built on the best of two worlds – the top quality of a certified Swiss brand and the leading expertise of a global team – Datwyler delivers a one-stop service right to your doorstep.

Datwyler is your reliable partner: from the supply of tailor-made cables and system solutions to comprehensive IT infrastructure solutions for data centres, fibre networks and intelligent buildings including software and services.

Please visit our website for more information:
www.ITinfra.datwyler.com

COMPANY

OUR VALUES

POWER AND INTELLIGENCE
for modern elevators

ELEVATOR CABLING SYSTEMS

New World Trade Center, New York

Invisible to passengers,
elevator cables from Datwyler IT Infra
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.

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
Omnitower	Frankfurt
One Canade Square	London
China Zun	Peking
Shanghai World Financial Center	Shanghai

World Financial Center, Shanghai

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.

Diverse applications

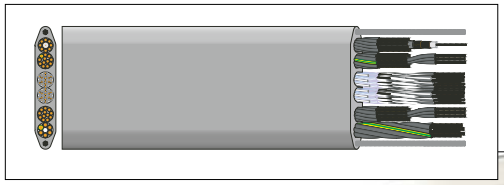
Datwyler elevator cable systems meet every requirement for electrical connections to the elevator cabin. Aside from power cables, high-quality data cables are being increasingly requested. Integral fibre optic cable can easily handle large volumes of data. These modern system solutions connect the elevator 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

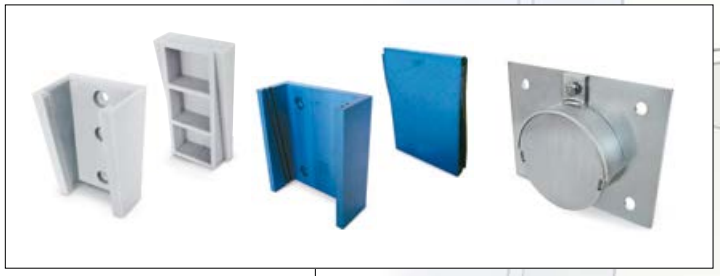
Datwyler has developed innovative solutions for all current needs. Comprehensive harnessing and logistics services with modern B2B connectivity round off the service offering.

Omnitower, Frankfurt

PRODUCT OVERVIEW



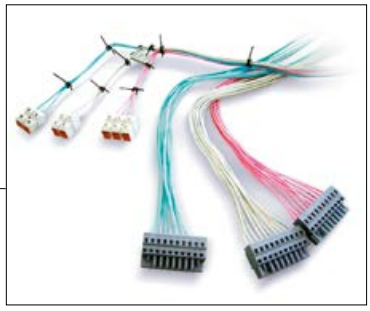
Flat cables
FL, FM, FH and Module Concept,
PVC and Low Fire Hazard



Suspension devices
for Datwyler FL, FM, FH

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

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



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 cables 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
Flat Low	up to 80 m	maximum 45 m	4 m/s
Flat Mid	up to 150 m	maximum 80 m	6.3 m/s
Flat High	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 (copper and fibre optic) data cables.

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, we invest 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 certified to ISO 9001, ISO 14001 and ISO 45001.

Our workforce accepts that we operate a no-compromise quality policy, which is in itself a warranty undertaking towards our customers.

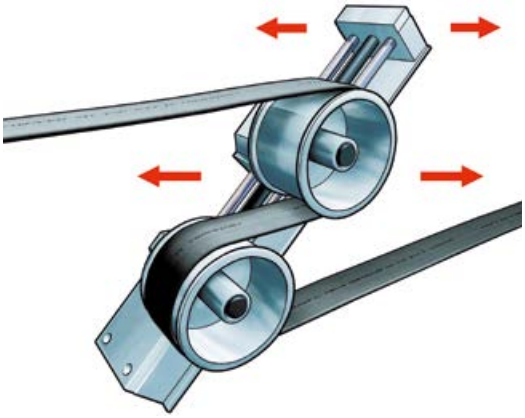
In addition to general quality assurance Datwyler flat cables are subjected to additional test procedures specific to the application. For these testing procedures Datwyler has developed a whole series of high precision testing systems with the support of qualified specialists which make an exhaustive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

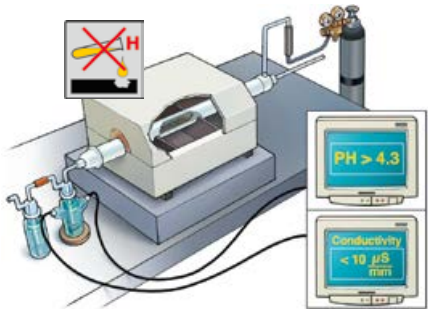
They are allocated to the articles on the data sheets and provide you with a quick overview

	**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 60754-1 and EN 60754-2, DIN VDE 0482-754-1 and DIN VDE 0482-754-2
	**Flame propagation**	Cables use a high-performance, flame retardant material that is self-extinguishing.	IEC 60332-1-2, EN 60332-1-2, DIN 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 26 cat. A-D, EN 60332-3-22 bis 26 cat. A-D, DIN VDE 0482-332-3-22 to 26 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 DIN VDE 0482-1034, part 1 and 2

Environmentally-friendly materials

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

THE MOST IMPORTANT TEST PROCEDURES AND THEIR FUNCTIONS

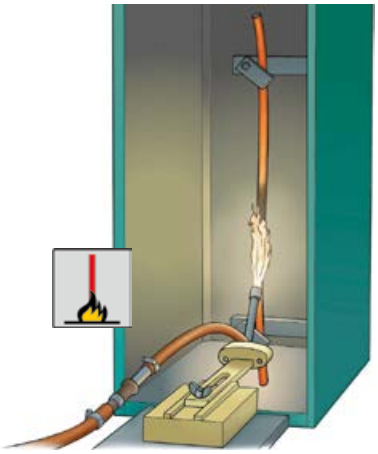


Test on gases evolved during combustion

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 < 10mS/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.

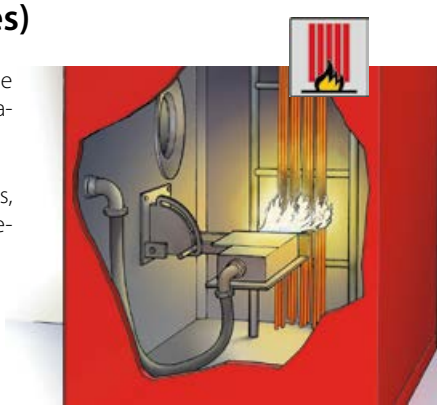
Standards
- IEC 60332-1-2
- EN 60332-1-2
- VDE 0482-332-1-2

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

Article no.	Type	Control cores: Dimensions in mm² 0.75	1.00	1.50	2.00	2.50	Data elements (see page 34/35): HF-4367-F 4 x 2 x AWG 26	7954/2-F 2 x 0.25	7345-F 2 x 0.34	6651-F 2 x 0.50	6651/2-F 2 x 0.50	7067/2-F * 2 x 0.50	7954/2-F 2 x 0.50	6651/3-H 2 x 0.50	6651-F 2 x 0.75	6651/2-F 2 x 0.75	6651/3-F 2 x 0.75	7067/2-F * 4 x 0.25	7954/2-F 4 x 0.25	8607-F 4 x 0.34	6347/2-F 4 x 0.50	6347/3-F 4 x 0.50	8504-F 4 x 0.50	GF-2314 G50/125	GF-2314 G62.5/125	HF-2122-F CX 75 Ω	HF-2123-F CX 75 Ω
FL – PVC flat cable – low rise – unsupported – up to 80 m shaft height																											**page 14/15**
148775	6777-F	4																									
148777	6777-F	12																									
148779	6777-F	18																									
148833	6777-F	24																									
185283	6488-F	60																									
154413	6777/1-F		7																								
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																											**page 16/17**
181658	8304-F	9		3						3																	
185358	8798-F	12																								1	
167046	8326-F	20								2																	
184758	8387-F	24																	2								
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												
191032	8867-F						4																				
FM – PVC flat cable – mid rise – supported – up to 150 m shaft height																											**page 18/19**
165344	6599-F	24																									
156879	7770-F	24																									
177690	8666-F		12																	1							
167018	8210-F			2						8																1	
168191	8210-F			4						8																2	
182058	8820-F			4						8																2	
168185	8507-F									12																	
192360	8854/3-H													4													
191093	8512-F		14			3				4																	
192453	8884-F	8																						4			

* unshielded

Product overview and selection criteria for Datwyler elevator cables

Article no.	Type	Control cores: Dimensions in mm² 0.75	1.00	1.50	2.00	2.50	Data elements (see page 34/35): HF-4367-F 4 x 2 x AWG 26	7954/2-F 2 x 0.25	7345-F 2 x 0.34	6651-F 2 x 0.50	6651/2-F 2 x 0.50	7067/2-F * 2 x 0.50	7954/2-F 2 x 0.50	6651/3-H 2 x 0.50	6651-F 2 x 0.75	6651/2-F 2 x 0.75	6651/3-F 2 x 0.75	7067/2-F * 4 x 0.25	7954/2-F 4 x 0.25	8607-F 4 x 0.34	6347/2-F 4 x 0.50	6347/3-F 4 x 0.50	8504-F 4 x 0.50	GF-2314 G50/125	GF-2314 G62.5/125	HF-2122-F CX 75 Ω	HF-2123-F CX 75 Ω
FH – PVC flat cable – high rise – supported – up to 400 m shaft height																											**page 20/21**
157219	7877-F	40																									
185284	7877-F	60																									
161448	8292-F	40																			2					1	
184645	8846-F		30													2											
FL – Low Fire Hazard – unsupported – up to 80 m shaft height																											**page 22/23**
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 24/25**
185127	8622-F		12																								1
185124	8696-F		12																	1							
191094	8872-F		14			3				4																	
FH – Low Fire Hazard – supported – up to 400 m shaft height																											**page 26/27**
185126	8585-F		30																	1							

* unshielded

Standards: EN 50214

FL – PVC – unsupported

Low rise – travelling height maximum 80 m

Drawing according to article number 148779 – Type 6777-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:	none
	Supporting members:	none
	Outer sheath:	PVC
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 45 m
	Travelling height:	maximum 80 m
	Running speed:	maximum 4 m/s
	Acceleration:	< 0.8 m/s^2
	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), JIF compliant types with different colours
	Outer sheath:	grey
STANDARD	EN 50214	

FL – PVC – unsupported

Low rise – travelling height maximum 80 m

Article no.	Type	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device
		[n x mm²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]	
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
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
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

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 to page 28/29
	Supporting members:	none
	Outer sheath:	PVC
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 45 m
	Travelling height:	maximum 80 m
	Running speed:	maximum 4 m/s
	Acceleration:	< 0.8 m/s^2
	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), JIS compliant types with different colours
	Pair/quad:	various colours or black with white numbers
	Coaxial :	grey
	Outer sheath:	grey
STANDARD	EN 50214	

FL – PVC – unsupported

Low rise – travelling height maximum 80 m

Article no.	Type	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device
		[n x mm²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]	
181658	8304-F	3 G 1.50	450/750							
		+ 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
185358	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
167046	8326-F	20 x 0.75	300/300							
		+ 2 x 2 x 0.50	300/300	52.0 x 5.3	6651-F	46.9	169	none	350	LZ 1006
184758	8387-F	24 G 0.75	300/500							
		+ 2 x 4 x 0.25	300/300	73.0 x 5.5	7954/2-F	69.7	216	none	350	LZ 1009
167577	8506-F	4 x 1.50	450/750							
		+ 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
182298	8822-F	4 G 2.50	450/750							
		+ 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
185281	8304-F	12 G 1.00	300/500							
		+ 2 x 2 x 0.50	300/300	46 x 5.4	6651-F	42.2	140	none	350	LZ 1006
181023	8606-F	3 G 2.50	450/750							
		+ 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
173814	8548-F	4 x 1.50	450/750							
		+ 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
167019	8216-F	2 x 1.50	450/750							
		+ 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
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
191032	8867-F	4 x 4 x 2 x AWG26	300/300	29.4 x 8.4	HF-4367-F	31.5	71	none	500	LZ 1006
		G = with green-yellow core(s)								

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

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 to page 28/29
	Supporting members:	HTF = High tensile fibre, ST = Steel, diameter in [mm]
	Outer sheath:	PVC
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 80 m
	Travelling height:	maximum 150 m
	Running speed:	maximum 6.3 m/s
	Acceleration:	< 1.2 m/s^2
	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	

FM – PVC – supported

Mid rise – travelling height maximum 150 m

Article no.	Type	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device
		[n x mm²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]	
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
176877	6900-F	6 G 1.50	450/750							
		+ 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							
		+ 1 x CX 75 Ω		50.9 x 6.4	HF-2122-F	53.0	139	HTF	400	LZ 1006
177690	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
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
168191	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
182058	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
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	450/750							
		+ 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
192453	8884-F	8 x 0.75	300/500							
		+ 4 x FO G50/125		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 28/29
	Supporting members:	ST = Steel, diameter in [mm]
	Outer sheath:	PVC
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 220 m
	Travelling height:	maximum 400 m
	Running speed:	maximum 12 m/s
	Acceleration:	< 1.2 m/s^2
	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	

FH – PVC – supported

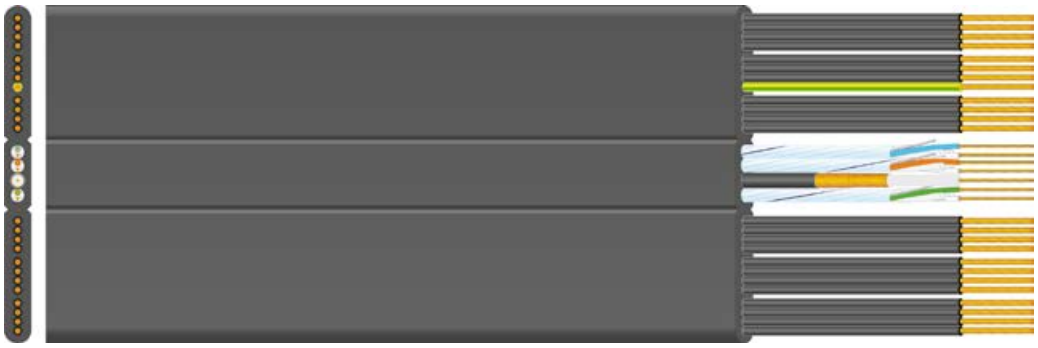
High rise – travelling height maximum 400 m

Article no.	Type	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device
		[n x mm²]	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
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
		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

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:	low fire hazard
	Data elements:	details according to page 28/29
	Supporting members:	none
	Outer sheath:	low fire hazard
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 45 m
	Travelling height:	maximum 80 m
	Running speed:	maximum 4 m/s
	Acceleration:	< 0.8 m/s^2
	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:	black
	Outer sheath:	black
STANDARD	EN 50214	

FL – Low Fire Hazard – unsupported

Low rise – travelling height maximum 80 m

Article no.	Type	Cross sectional area	Rated voltage	Overall dimensions approx. [w x h]	Data elements	Weight approx.	Copper content	Supporting members	Loop	Suspension device
		[n x mm²]	Uo/U [V]	[mm x mm]		[kg/100m]	[kg/km]		[mm]	
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

FM – Low Fire Hazard – supported

Mid rise – travelling height maximum 150 m

Drawing according to article number 185124 – Type 8696-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:	low fire hazard
	Data elements:	details according to page 28/29
	Supporting members:	HTF = High tensile fibre
	Outer sheath:	low fire hazard
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 80 m
	Travelling height:	maximum 150 m
	Running speed:	maximum 6.3 m/s
	Acceleration:	< 1.2 m/s^2
	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:	black
	Outer sheath:	black
STANDARD	EN 50214	

FM – Low Fire Hazard – supported

Mid rise – travelling height maximum 150 m

Article no.	Type	Cross sectional area [n x mm²]	Rated voltage Uo/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
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
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

FH – Low Fire Hazard – supported

High rise – travelling height maximum 400 m

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:	Class 5
	Core insulation:	low fire hazard
	Data elements:	details according to page 28/29
	Supporting members:	ST = Steel, diameter in [mm]
	Outer sheath:	low fire hazard
ELECTRICAL PROPERTIES	Rated voltage Uo/U:	according to table
MECHANICAL PROPERTIES	Free suspension length:	maximum 220 m
	Travelling height:	maximum 400 m
	Running speed:	maximum 12 m/s
	Acceleration:	< 1.2 m/s^2
	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
	Outer sheath:	black
STANDARD	EN 50214	

FH – Low Fire Hazard – supported

High rise – travelling height maximum 400 m

Article no.	Type	Cross sectional area [n x mm²]	Rated voltage Uo/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
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

Data elements for Datwyler travelling cables

	Data element	Cross section	Colour code	Application	Construction
1	 **HF-4367-F**	4 x 2 x AWG26 S/FTP	white/blue, red/orange, black/green, yellow/brown	Supports all Cat.6/ Class E applications (e.g. 10 Base-T, 100 Base-T, 1000 Base-T, ISDN)	PE cores Al/PETP foil per pair Overall tinned Cu wire braid PVC sheath
2	 **7954/2-F**	2 x 0.25 STP	white/blue	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PE filler (2x) PETP tape Tinned Cu wire spiral PETP tape
3	 **7345-F**	2 x 0.34 FTP	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PP filler (2x) PETP tape Tinned Cu drain wire Al/PETP foil
4	 **7067/2-F (unshielded)**	2 x 0.50 UTP	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PP filler (2x) PETP tape
5	 **6651-F**	2 x 0.50 FTP	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil
6	 **6651/2-F**	2 x 0.50 FTP	black, white numbered	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil PP tape
7	 **6651/3-H**	2 x 0.50 FTP	black, white numbered	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil PP tape
8	 **7954/2-F**	2 x 0.50 STP	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PE filler (2x) PETP tape Tinned Cu wire spiral PETP tape
9	 **6651-F**	2 x 0.75 FTP	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil
10	 **6651/2-F, 6651/3-F**	2 x 0.75 FTP	black, white numbered	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores Tinned Cu drain wire with PP centre PP filler Al/PETP foil PP tape

Note: All data elements on page 28/29 are semi-finished products and not available for individual sale.

Data elements for Datwyler travelling cables

	Data element	Cross section	Colour code	Application	Construction
11	 **7067/2-F (unshielded)**	4 x 0.25 UTQ	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PP centre PE cores PETP tape
12	 **7954/2-F**	4 x 0.25 STQ	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PP centre PE cores PETP tape Tinned Cu wire spiral PETP tape (2x)
13	 **8607-F**	4 x 0.34 STQ	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PP foam tape Tinned Cu wire braid PP tape
14	 **6347/2-F**	4 x 0.50 STQ	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PP tape Tinned Cu wire spiral PP tape
15	 **6347/3-F**	4 x 0.50 STQ	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PP tape Tinned Cu wire spiral PP tape (2x)
16	 **8504-F**	STQ	various colours	Fieldbus applications (e.g. LON, CAN) and analogue data and voice transmission	PE cores PETP tape Tinned Cu wire spiral PETP tape PVC sheath
17	 **HF-2122-F (coaxial cable 75 Ω)**	n/a	grey	Analogue video transmission	Bare Cu strand PE dielectric Al/PETP foil Tinned Cu wire braid PVC sheath
18	 **HF-2123-F (coaxial cable 75 Ω)**	n/a	black	Analogue video transmission	Bare Cu strand PE dielectric Al/PETP foil Tinned Cu wire braid Low fire hazard sheath
19	 **GF-2314 (G50/125)**	n/a	orange	Optical data transmission	Multimode fibre G50/125 µm OM2 Tight buffer Aramid yarn Low fire hazard sheath
20	 **GF-2314 (G62.5/125)**	n/a	grey	Optical data transmission	Multimode fibre G62.5/125 µm OM1 Tight buffer Aramid yarn Low fire hazard sheath

Suspension devices
for FL and FM cables

Figure 1:
Suspension device LZ 1006

Figure 2:
Suspension device LZ 1009

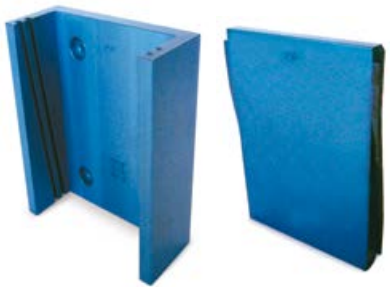


Figure 3:
Suspension device LZ 1010

PRODUCT INFORMATION

APPLICATION

Suspension devices for Datwyler FL and FM elevator travelling cables.

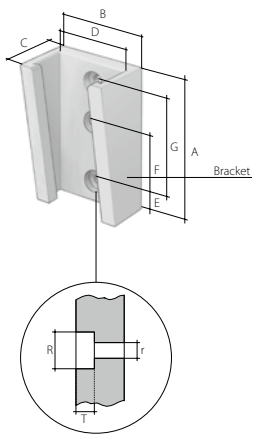
The cable width, the number of cables (cable combinations) to be mounted and the travelling height determine the selection of the correct cable suspension device(s).

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

MATERIAL

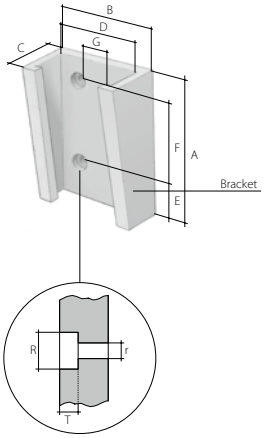
Nylon PA6		LZ 1006 / LZ 1009	grey
Aluminium		LZ 1010	blue anodised

DIMENSIONS



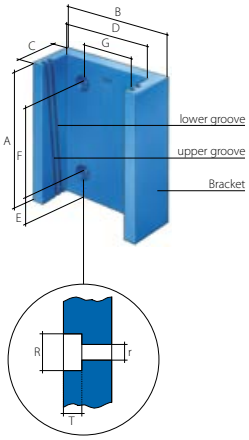
LZ 1006

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	Width of cable	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

Suspension device LZ 4001
for FH cables

PRODUCT INFORMATION

APPLICATION

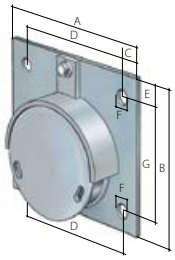
Steel suspension device for a maximum of two Datwyler FH elevator travelling cables.

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 bolt: property class 8.8/8 (nut)
Shaft wall:	4 Hilti HSL-3 M8/20 (minimum concrete strength required: b_w=30 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 32).

Suspension device LZ 4001 for FH cables:

Article no.	Type	Figure
184606	LZ 4001	1

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 easy and quickly to install 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	to commence the removal of the cable jacket
	7. Crimping tool	for splicing steel wire ropes
	8. Crimping sleeves	for rope diameters from 2.5 to 6 mm
	2. Two auxiliary devices AV 400	for elevator shaft heights up to 400 m
	9. Universal scissors	
	10. Steel wire ropes	

Cutters, crimping tool, crimping sleeves, etc.:
The above mentioned accessories are also available seperately.

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	to commence the removal of the cable jacket	
166667	7	Crimping 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
179472	9	Universal scissors		

TOP QUALITY CABLE HARNESSING

Datwyler was established in 1915. Since 2012 we have also been producing in the Czech Republic, on a site with a 30 year tradition in cable harnessing.

We guarantee the following benefits for our customers:

- **Excellent prices compared with EU benchmarks**
- **Many years of experience in harnessing**
- **A high degree of flexibility, customised solutions**
- **Experienced engineering team**
- **Automated production**
- **Certified to ISO 9001, ISO 14001 and ISO 18001 (ISO 45001)**
- **Sufficient spare production capacity**
- **Cable and strand cutting service, stripping and labelling**
- **Production of orders for small quantities**
- **On-time delivery 99.5%**

Elevator module cable with copper and fibre optic elements

Fibre optic trunks with 2–48 fibres, various types of connector

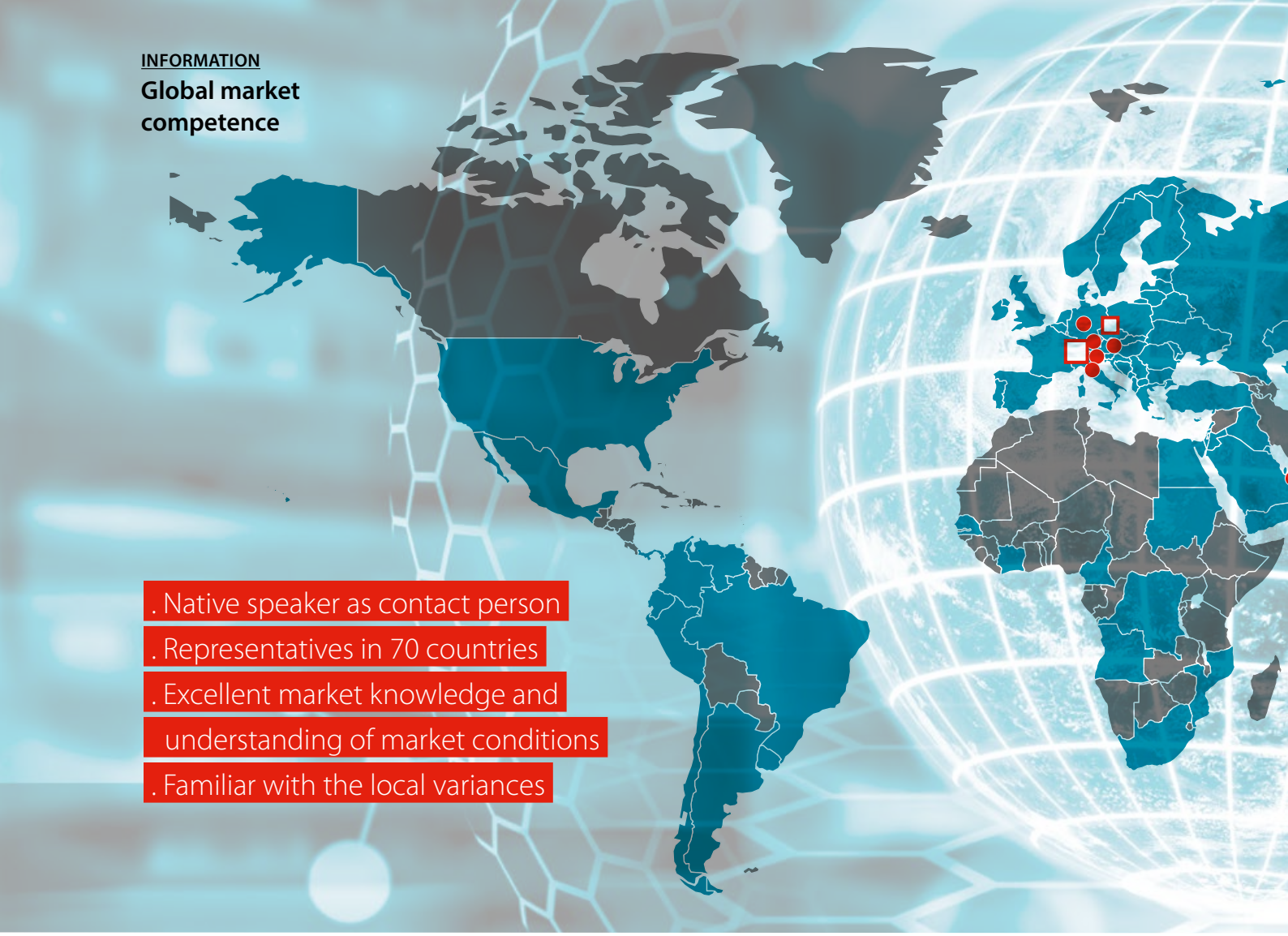
Harness for control cabinet

Fibre optic patch panels with up to 192 fibres on 1U

Cut, stripped cables with contacts

Our core portfolio:

. Flat elevator and escalator cable harnessing, for Kone, Thyssenkrupp, Schindler and Otis among others
. Fibre optic harnessing, including trunks, patch cables, pigtails, the complete FTTH portfolio, fibre optic patch panels,
. Harnessing of copper data cables, trunks and patch cables
. Industrial harnessing 4.0



ANYWHERE IN THE WORLD:

WE REALIZE YOUR PROJECT

WE SPEAK
YOUR LANGUAGE
– ALSO FROM A
CULTURAL POINT OF VIEW

You will find us wherever IT infrastructures are involved.

Not only are we fluent speakers of all the major languages, but we're also well versed in the special cultural and application-specific features of each particular country. We are familiar with the rules and requirements and know what is important. This saves our international customers time and money. For they know that Datwyler's development, production and quality control, geared to the specific criteria of the domestic market, give them significant competitive advantages.

And they are sure to feel "at home" if they are then given advice and support in their native language into the bargain.

Headquarters

Manufacturing plant

Offices

Active market presence by Datwyler and their distribution partners

Are you searching for a distribution partner in one of our export markets? Please visit www.ITinfra.datwyler.com for details of our partners or contact our relevant branches.

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