Zucchini Low-Medium Power



CATALOGUE 2010-2011



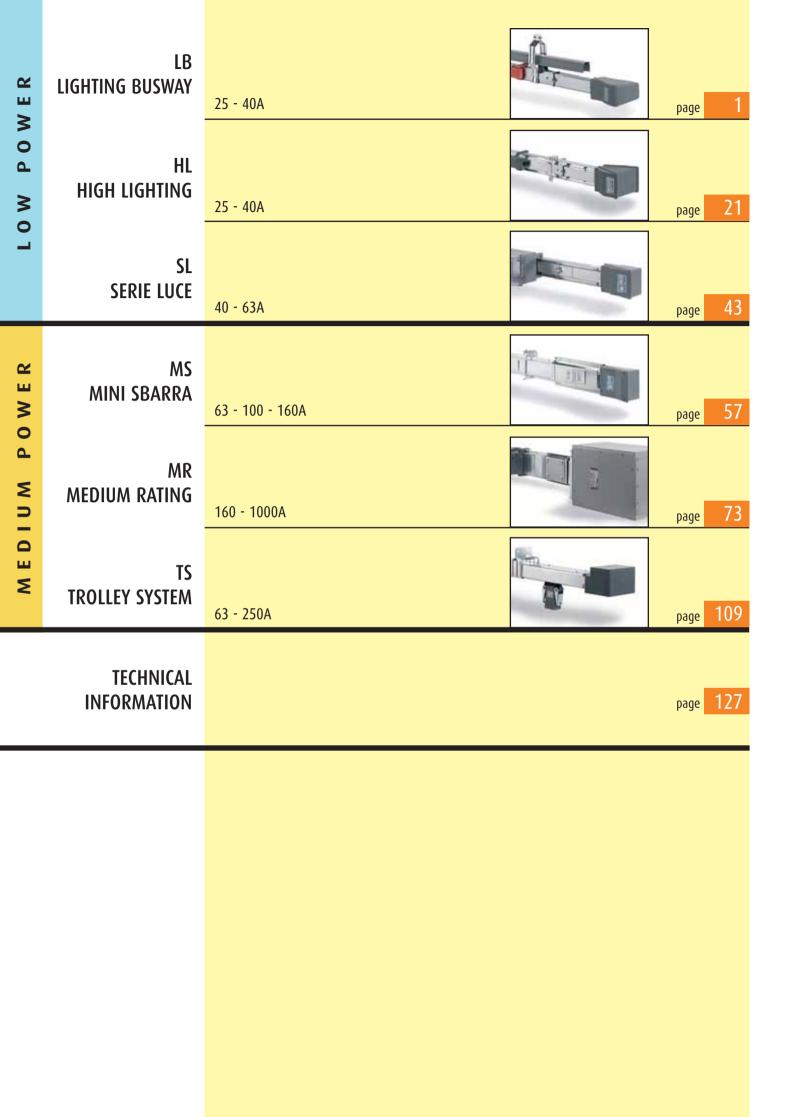
Coordination table with Legrand DPX MCCBs

SL, MS, SB, MR Switch-Busbar coordination table. Contingent short circuit kA eff. (50/60 Hz - 380/415 V)

	SL 40A	SL - MS 63A	MS 100A	MS MR 160A	MR 250A	MR 315A	MR 400A	MR 500A	MR 630A	MR 800A	MR 1000A
DPX 125 I _{cw} 16kA - 40A	16	16									
DPX 125 I _{cw} 25kA - 40A	25	25									
DPX 125 I _{cw} 36kA - 40A		36									
DPX 125 I _{cw} 16kA - 63A		16	16								
DPX 125 I _{cw} 25kA - 63A		25	25								
DPX 125 I _{cw} 36kA - 63A		36	36								
DPX 125 I _{cw} 16kA - 100A			16								
DPX 125 I _{cw} 25kA - 100A			25								
DPX 125 I _{cw} 36kA - 100A			36								
DPX 160 I _{cw} 25kA - 160A			25	25							
DPX 160 I _{cw} 36kA - 160A			36	36							
DPX 160 I _{cw} 50kA - 160A			50	50							
DPX 250ER I _{cw} 25kA - 250A				25	25						
DPX 250ER I _{cw} 36kA - 250A				36	36						
DPX 250ER I _{cw} 50kA - 250A				50	50						
DPX 250 I _{cw} 36kA - 250A				36	36						
DPX 250-H I _{cw} 70kA - 250A				70	70						
DPX 250-L I _{cw} 100kA - 250A				100	100						
DPX 630 I _{cw} 36kA - 400A						36	36				
DPX 630-H I _{cw} 70kA - 400A						70	70				
DPX 630-L I _{cw} 100kA - 400A						100	100				
DPX 630 I _{cw} 36kA - 630A								36	36		
DPX 630-H I _{cw} 70kA - 630A								70	70		
DPX 630-L I _{cw} 100kA - 630A								100	100		
DPX 1250 I _{cw} 50kA - 800A									50	50	
DPX 1250-H I _{cw} 70kA - 800A									70	70	
DPX 1250-L I _{cw} 100kA - 800A									100	100	
DPX 1250 I _{cw} 50kA - 1000A										50	50
DPX 1250-H I _{cw} 70kA - 1000A										70	70
DPX 1250-L I _{cw} 100kA - 1000A										100	100

Note for Lexic mini circuit breakers

The Zucchini Busbar Trunking Systems, specified herein, are protected by Lexic MCBs up to their breaking capacity





Integrated solutions for global projects

Legrand is the world specialist in products and systems for electrical installations and information networks:

- Distribution, automation panels and protection equipment
- Cable management (trunking, cable trays and wire mesh)
- Busbars and lighting busbars

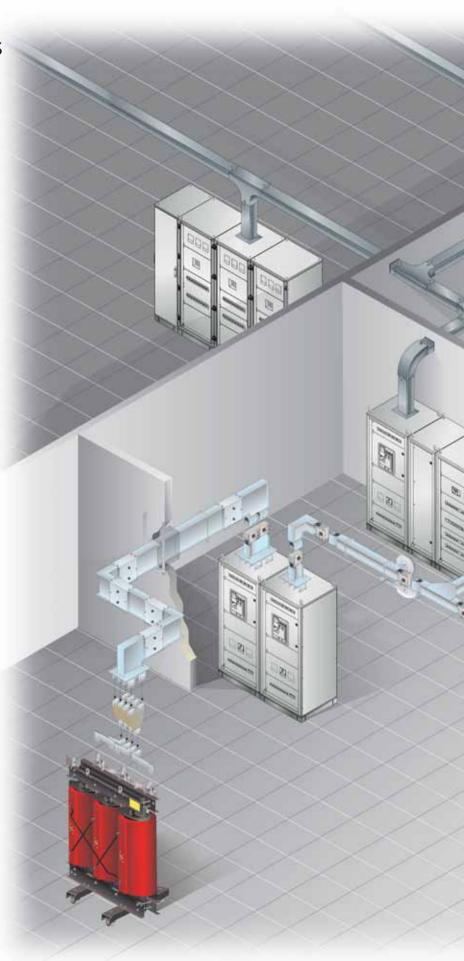
Every product and system needed for distributing energy and protecting people and property.

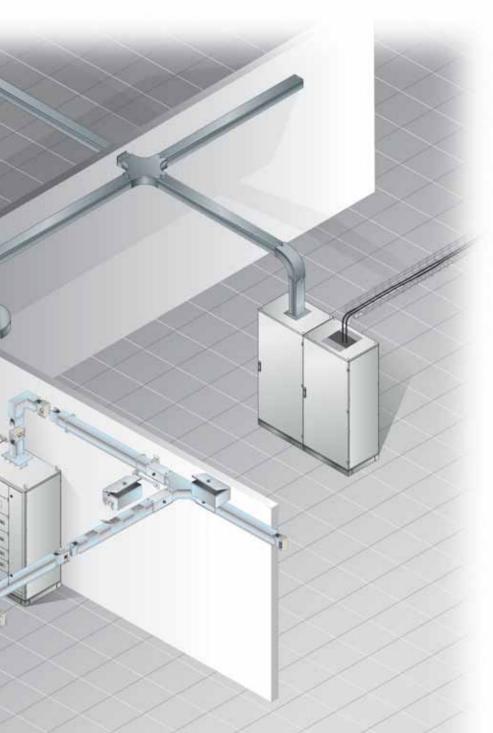


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In a context of accelerated globalization and increasingly complex projects, the support of a reliable and competent partner is absolutely essential, a real key to the success of your company. Choosing the Legrand Group means the assurance of benefiting from global expertise throughout the world thanks to its strong local presence. A vast choice of carefully styled products compose solutions which in turn form coherent systems incorporating the latest technological innovations.

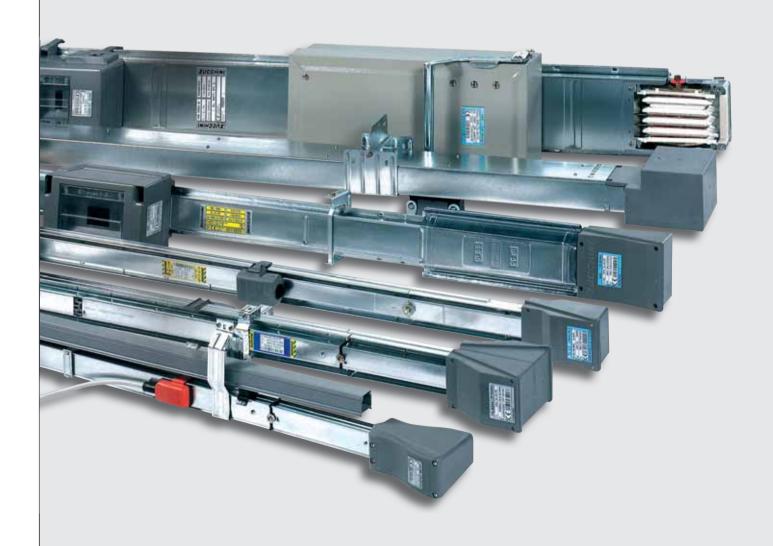
Choosing Legrand also means you are sure to be assisted by professionals at your service any time, from your project's design through to its completion.



Basic concepts for busbars

The busbar is the most modern solution for the distribution of energy in an installation for machinery, equipment and lighting fittings, in all types of buildings such as warehouses, trade fairs, or any place where the pace of installation operations provide tangible benefits immediately, but also continue to cumulate benefits at every maintenance intervention or modification. The busbar is also frequently used to power the (horizontal and vertical) backbones of buildings used for the commercial-service sectors, thus observing the time required for the installation and providing a final solution with remarkable technical advantages compared to an equivalent traditional system made with cables.

Zucchini's busbars, available in 3 segmented ranges (Low Power, Medium Power and High Power), are able to meet all installation requirements, from 25A to over 5000A.



■ EASY TO DESIGN

The electric design of the busbars is achieved by Zucchini in compliance with the product Standards. The rated current of our busbars is guaranteed at a room temperature of 40 °C (n.d.r. the Standard requires 35 °C). After choosing the busbar which is able to meet the operating current regulations, it will be very easy to verify the voltage drop as well as the protection against overcurrents by using the technical tables available for all our production lines. In particular, these tables define: the short circuit and peak currents that can be supported by the busbar waiting for the protection device located upstream to start operating, the specific voltage drop based on the average cos phi of the loads, the losses and other data (R, X, Rpe, etc.) which allow the planning engineer to carry out calculations with electric values, which are not estimated but the result of measurements made during heating and short circuit tests (in certified LOVAG laboratories), which have certified all our product lines.

When using busbars, the load protection is located very close to the device (decentralized protection); junction boxes can contain protection devices such as thermal magnetic circuit breakers, fuse carriers and motorized switches which allow you to easily and efficaciously manage the system.

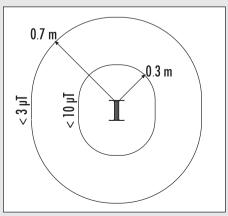
nl _	26 x 41 25	25	3,14	6,15	6,1
(A)	3,14	8,72	8,72	8,72 400	4
limii I'mn	8,72	400	500	500	-
U _q (V)	500	50/60	50/60	50/60	
U ₁ [V]	50/60	22	2,2	10	-
w (kA)ms	10	0,48	0,48	2,963	
1 _{0k} (kA) 1 (A's x 10")	0,48	5,803	5,803 1,279 •1,144	0,792	_
(20 [ms2/m]	5,803	1,279	5,942 •5,91	4 3,067	

Example of an electric characteristics table

■ INTRINSIC SAFETY

A busbar does not use large amounts of insulating plastic material and potentially dangerous materials in case of fire. Furthermore, the plastic materials used for the insulating parts of the busbars are always self-extinguishing (from V0 to V2) and the gas emission is generally very low (Halogen Free). Low electromagnetic emission is another advantage of the busbars compared to that of an equivalent cable system: as a result, the metal plate casing of the busbars serves as a screen for the electric field (shielded enclosure); the extreme vicinity between the phase conductors also reduces the emission of the magnetic field considerably. The tests carried out on one of our 2500A SCP busbars at full operating current has shown that the emission of the magnetic field (magnetic induction) is lower than 10 μT of the Decree at a distance of 0.3m, and lower than 3 µT at a distance of only 0.7m from the busbar. These features make our busbars the unavoidable choice for hospital facilities, data processing centres and

wherever it is necessary to supply a large amount of power in the vicinity of workplaces and/or sensitive equipment.



Zucchini busbar electromagnetic emission



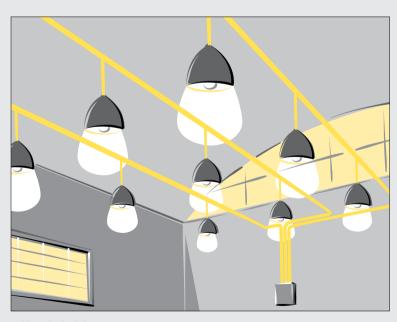
Basic concepts for busbars

■ FLEXIBILITY

By using the outlet windows located on the straight elements, the busbars provide high management flexibility, both when planning (electrical engineer) and when installing the system (installer); they are also used for the unavoidable changes required by the electric system to adapt to the varied needs of the end user. The junction boxes can be inserted and removed from their windows when the busbar is electrically powered and inserted in another junction window, thus avoiding downtime. The engineering department in charge of designing the busbar does not have to know the exact position of the machinery and of the electric loads that will be installed in the company; the project that will be carried out will be open to changes and variations which will be defined by the end user when operationally using the system. No more point-point connections but only one power distribution system to which you will always be able to connect to wherever there is a free window. Because of its flexibility and durability features Zucchini's busbar, installed inside a building, allows you to easily change the destination of its intended use of the rooms, thus giving also advantages to those who manage and locate the various parts of the building premises.



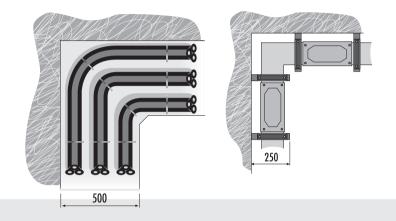
Busbar system

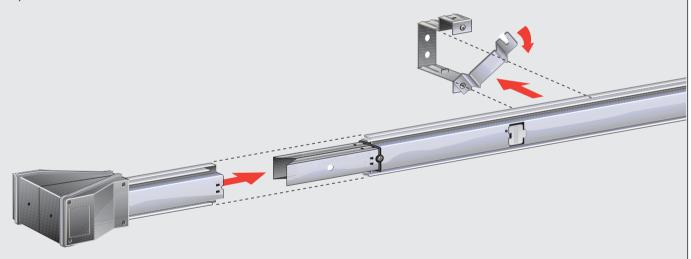


Cable and tube lighting system

QUICK INSTALLATION

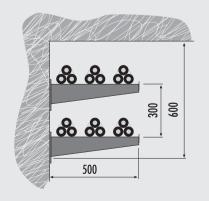
Zucchini's junction and fixing systems have been designed and created to install busbars easily. In a cable and tray system, the time required to install only the tray is the same used to install a complete system in busbars. Furthermore, given the same capacity, a power busbar, which generally has aluminium conductors, is much lighter than a system made with (copper) trays and cables: lighter weights require a lower number of supporting frames or, in any case, more simple and inexpensive supporting frames. That is why the installation time of a busbar is obviously shorter than a similar system made with cables.

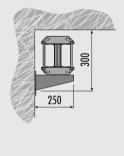




■ REDUCED DIMENSIONS

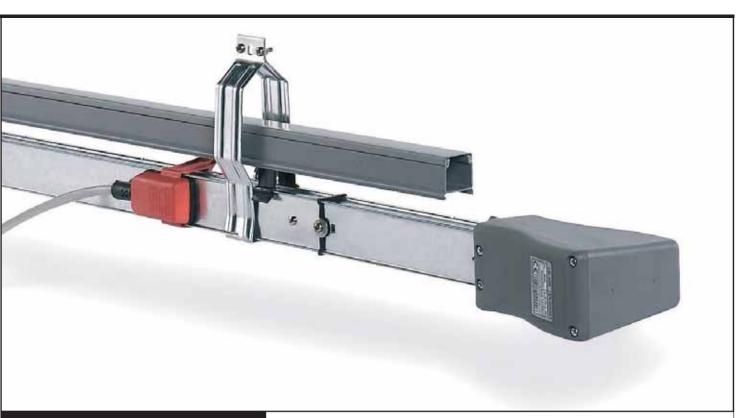
The overall dimensions of the busbars are generally smaller than an equivalent system made with cables, especially when the currents to be carried exceed 1000A and when several cables in parallel are necessary to ensure such capacity. Other advantages can be achieved when there are changes of direction where the radius of curvature of the cables is minimal and enough to not damage the insulating material; busbars allow you to change directions with 90° angles, thus optimizing the small spaces used in service areas.







LB - LIGHTING BUSWAY 25 - 40A



SECTION CONTENTS

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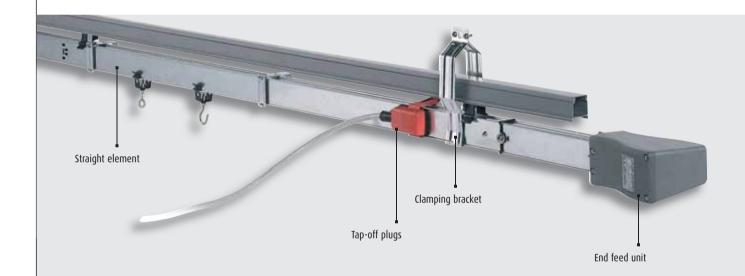


LB Lighting Busway

■ GENERAL FEATURES

Zucchini's LB product line is the ideal solution for supplying power to light fixtures for commercial and industrial applications. The main features of the LB range are:

- speed, simplicity and flexibility when planning and installing the lines;
- capable of being installed both in false ceilings and below floating floors, because of the IP 55 degree of protection;
- compliance with Standard IEC 60439-1 and 2;
- rated at average room temperature of 40 °C for a higher performance level compared to the 35 °C rating required by the standard.







Shopping centres

Offices

■ STRAIGHT ELEMENTS

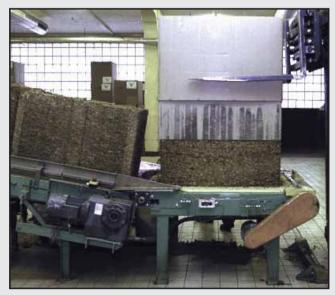
The components and the features of the LB straight elements are:

- a closed and rib-shaped section casing, made with hot galvanized steel (Senzimir) (due to its cross-section and electrical continuity, it also serves as a protective conductor);
- casing thickness 0.6 mm;
- reduced dimensions 26x41 mm;
- painted or with an anodized aluminium casing versions available on request;
- number of conductors: 2, 4 or 6 rigid copper conductors with a 99.9% purity;
- conductor section: 3.14 mm² for 25A and 6.15 mm² for 40 A;
- separation between the conductors by using a V0 (according to UL94) self-extinguishing insulating plastic sheathe and in compliance with the glow-wire test according to IEC 60695-2-10;
- tap-off outlets equidistant every 1m (3 outlets every

3m) or 0.5m (6 outlets every 3m), receiving the corresponding tap-off plugs (in the LB 6 conductor version the outlets are arranged on both sides of the busbar: 3+3 or 6+6 outlets);

 a junction block automatically ensuring electrical continuity.

The connection between two straight elements is quick; with one operation the mechanical and the electrical connection is ensured between two joined elements; at the same time, an IP 55 degree of protection is guaranteed without using additional accessories. The continuity of the protective conductor (casing) is guaranteed by tightening the special connection screw. The whole busbar is fire retardant in compliance with the IEC 60332-3 standard.



Store house



Hospitals



LB Lighting Busway

FEED UNITS

Allows you to electrically power the LB line through a cable line; the installation is carried out with a quick junction connection as with the straight elements. The feed units have terminals for the connection of flexible copper cables for sections of up to 25 mm². There is an anti-pullout cable clamp inside the feed unit. The entrance point for the incoming cable is positioned on the end of the feed unit.



■ END COVER

The end cover ensures the IP 55 protection degree at the end of the line.



End cover

■ FIXING DEVICES

Specific accessories are available for attaching the busbar to the structure of the building (directly or with a steel chain or cable).

The accessories for overhead fixing are:

- snap clamp: the snap-on installation is extremely fast. This bracket is suitable both for overhanging the busbar to the ceiling and for hanging products such as fluorescent lamps, tap-off boxes, etc., to the busbar itself;
- snap clamp with ring or hook: the ring or the hook enables to hang lamps easily.
- simple bracket: used with the ceiling bracket holder, it enables the installation the busbar directly onto the ceiling at a distance of about 25cm;
- wall bracket: enables the fixing of the busbar directly onto the wall of a building, setting it at the required distance enabling the installation of the necessary components.



Fixing accessories for fastening the busbar run to the structure and hanging the lamps onto the busbar

■ TAP-OFF PLUGS

Used for connecting and energizing light fixtures; their features include:

- can be inserted and removed when the busbar is energized and when the fixure is under load;
- the PE contact (Protective Earth) is the first to make an electrical connection when inserting the plug into the outlet and it is the last to disconnect when pulling it out:
- compliance with all insulating plastic components according to the glow-wire test (IEC 60695-2-10) with V1 self-extinguishing degree (UL94);
- standard IP 55 degree of protection without using additional accessories according to Standard IEC 60529.

- The tap-off plugs are common for the LB 2, 4 and 6 conductors offer. These include:
- a) 10 A pre-wired, pre-positionned phase tap-off plugs with 1m, 3m or 5m of 3x1.5 mm² cable;
- b) 16 A phase selection tap-off plugs, with terminals for connecting L+N+PE cable;
- c) 16 A phase selection tap-off plugs, with Ø5x20 mm cylindrical ceramic fuse and with terminals for connecting L+N+PE cable;
- d) 16 A three-phase tap-off plugs, with a set of three cylindrical fuse carriers with terminals for connecting a 3L+N+PE cable.
- In the LB 6 conductor line, the plugs are polarized, in other words the plug which is installed on one side of the busbar cannot be installed on the other side due to a mechanical lock on the outlet.



Phase selection plug



Single-phase plugs with 1, 3, 5 m cable

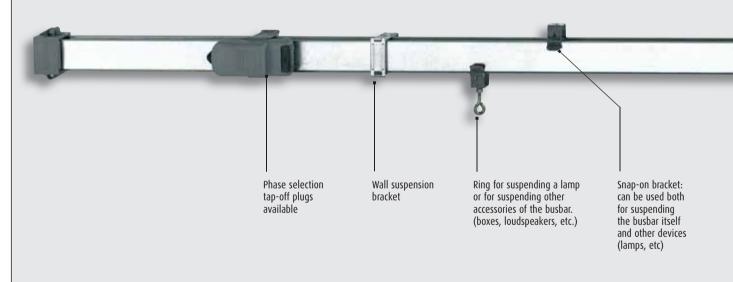


LB Lighting Busway

TRUNKING ELEMENTS AND ADDITIONAL ELEMENTS

Depending on the different installation requirements Zucchini can provide various technical solutions:

- a) flexible joint: used to make changes of direction or to avoid possible interferences that may be found on the natural path of the BUSBAR.
 The features are as follows:
- same connection method as the straight elements;
- electrical and mechanical connection with one operation;
- standard degree of protection: IP 55;
- continuity of the protective conductor, made from the casing of the element itself, guaranteed by tightening the special connection screw;
- b) cable trunking with cover: this accessory, which
 can be positioned in the upper part of the busbar,
 can be used to distribute auxiliary circuits, it is an
 integral part of the busbar run using special spacers
 and brackets which support the busbar trunking
 system firmly. The trunking part is 3 m long and its
 dimensions are 28x28 mm;
- c) intermediate feed unit: it can power the busbar from an intermediate point of the line, thus reducing the voltage drop at the end of the line and/or making the installation easier when the electric energy supply point is near the middle of the line.



■ PARTS OF THE LINE



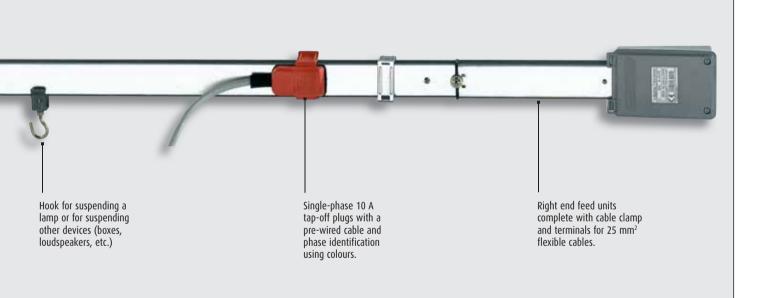
Phase selection plug



Three-phase plug with fuse carrier



Single-phase plugs with 1, 3, 5 m cable





Snap-on stainless steel hook, ring and bracket



Simple suspension bracket

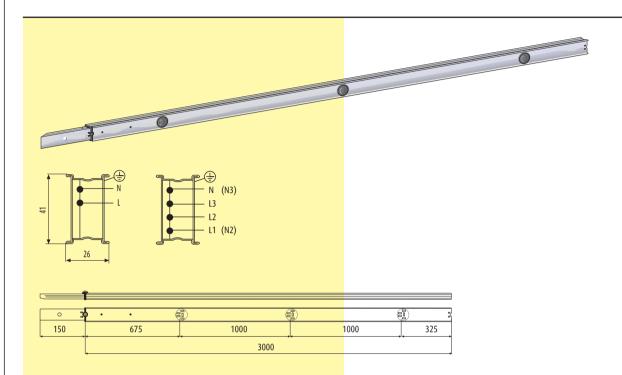


Bracket for coupling elements and floor fixing





Trunking components



STRAIGHT ELEMENT

Supplied with 3 pre-installed outlet covers (one cover every other outlet on the 6 outlet model)

Model	Item	Length (m)	Rating (A)	Conductors	No. of outlets	Weight (kg)
LB 252	70150101	3	25	2	3	2.900
LB 252	70150102	3	25	2	6	2.900
LB 252	70150111	1.5	25	2	2	1.500
LB 402	70170101	3	40	2	3	3.200
LB 402	70170102	3	40	2	6	3.200
LB 402	70170111	1.5	40	2	2	1.650
LB 254	70160101	3	25	4	3	3.100
LB 254	70160102	3	25	4	6	3.100
LB 254	70160111	1.5	25	4	2	1.550
LB 404	70180101	3	40	4	3	3.400
LB 404	70180102	3	40	4	6	3.400
LB 404	70180111	1.5	40	4	2	1.750

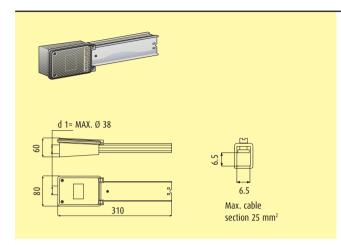




OUTLET COVER (spare part)

Already mounted on each plug point, for IP 55 protection of outlets without plug.

Model	Item	Weight (kg)
All	70102054	0.004

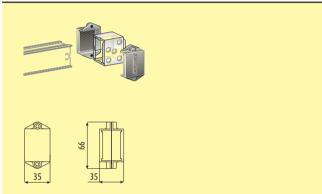


STANDARD FEED UNIT

Supplied without an electric and mechanical bayonet connection. It must be installed on one side of the element, located near the linking bayonet.

Model	Item	Weight (kg)
LB 252	70161001	0.400
LB 402	70181001	0.430
LB 254	70161001	0.400
LB 404	70181001	0.430

For cable glands see page 136



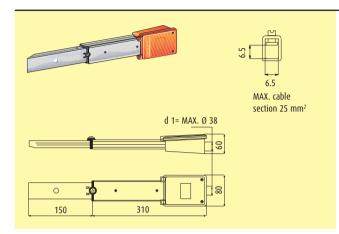
STANDARD END COVER

To be used with standard feed units.

Model	Item	Weight (kg)
All	70101351	0.060



Trunking element

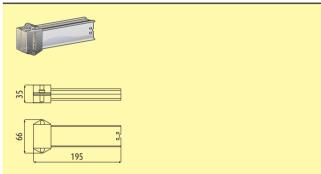


END-LINE FEED UNIT

Supplied with an electric and mechanical bayonet connection. It must be installed on the extremity of the element without the bayonet. Can be used when power feed is needed at both ends of a run (less voltage drop) or cabled in association with a standard feed unit to create a flexible element to bypass large obstacles (beams, air ducts, etc)

Model	Item	Weight (kg)
LB 252	70161002	0.600
LB 402	70181002	0.630
LB 254	70161002	0.600
LB 404	70181002	0.630

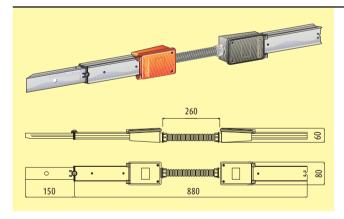
For cable glands see page 136



END COVER

To be used with end-line feed unit.

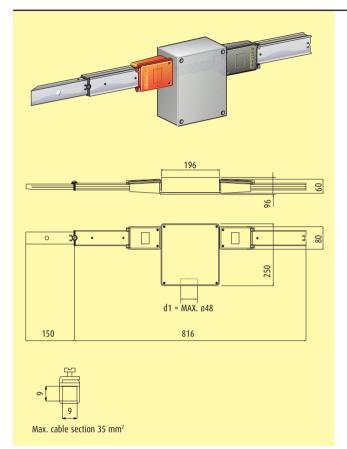
Model	Item	Weight (kg)
All	70161352	0.200



FLEXIBLE JOINT

Used to make changes of direction.

Model	Item	Weight (kg)
LB 252	70161261	1.350
LB 402	70181261	1.400
LB 254	70161261	1.350
LB 404	70181261	1.400



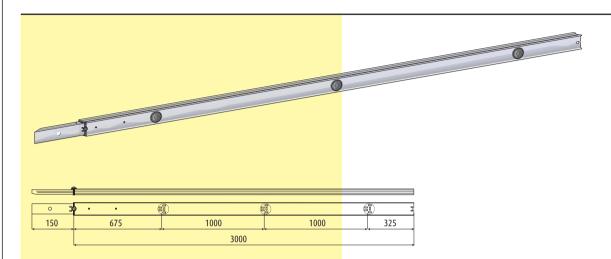
CENTRE FEED UNIT 25/40A

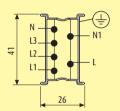
Used to power a busbar straight element from any intermediate point. The centre feed unit is also used for reducing the voltage drop of the line.

Model	Item	Weight (kg)
All	70181151	2.100



Trunking components - LB6





STRAIGHT ELEMENT

Supplied with 3+3 pre-installed outlet covers (one cover every other outlet on the 6+6 outlet model)
The outlets are positioned on both sides in alternating pattern

Model	Item	Length [m]	Rating A	Conductors	No. of outlets	Weight (kg)
LB 256	70250101	3	25	6	3 + 3	3.100
LB 256	70250102	3	25	6	6 + 6	3.100
LB 256	70250111	1.5	25	6	2 + 2	1.550
LB 406	70260101	3	40	6	3 + 3	3.400
LB 406	70260102	3	40	6	6 + 6	3.400
LB 406	70260111	1.5	40	6	2 + 2	1.750



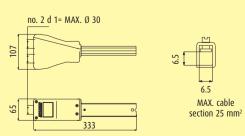


OUTLET COVER (spare part)

Already mounted on each plug point, for IP 55 protection of outlets without plug.

Model	Item	Weight (kg)
All	70102054	0.004



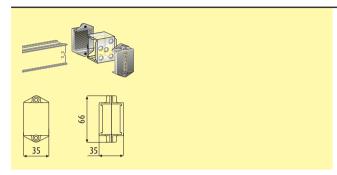


STANDARD FEED UNIT

Supplied without an electric and mechanical bayonet connection. It must be installed on one side of the element, located near the linking bayonet. Removable top and bottom cover to make cable connections easier.

Model	Item	Weight (kg)
All	70261101	0.430

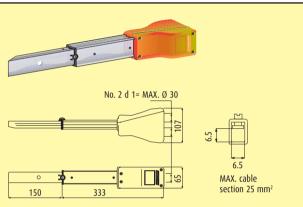
For cable glands see page 136



STANDARD END COVER

To be used with standard feed units.

Model	Item	Weight (kg)
All	70101351	0.080

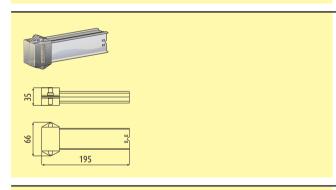


END-LINE FEED UNIT

Supplied with an electric and mechanical bayonet connection. It must be installed on the extremity of the element without the bayonet.

Can be used when power feed is needed at both ends of a run (less voltage drop) or cabled in association with a standard feed unit to create a flexible element to bypass large obstacles (beams, air ducts, etc) Removable top and bottom cover to make cable connections easier.

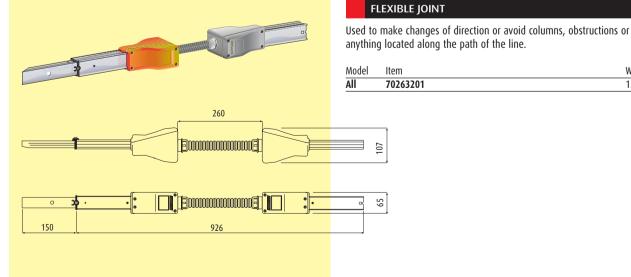
Model	Item	Weight (kg)
All	70261102	0.600
For cabl	le glands see nage 136	



END COVER

To be used with end-line feed unit.

Model	Item	Weight (kg)
All	70263102	0.130



Weight (kg)

1.350

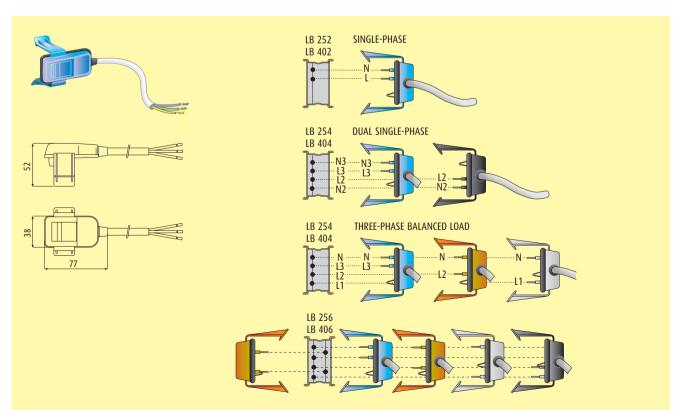


Plugs for all versions

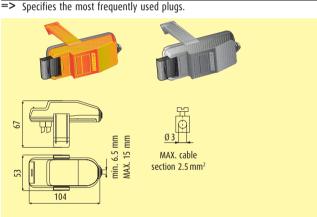
	- 11	3 Model		Item	Capacity	Fuse	Phase	Cable length	Cable end	Colour
	252	254	256		сороску		111050	coole length		
	402	404	406							
			4 conductors side							
		•	•	70105016	10 A	-	L1-N	1m	stripped	grey
		•	•	70105116	10 A	-	L1-N	3m	stripped	grey
		•	•	70105126	10 A	-	L1-N	5m	stripped	grey
		•	•	447 40	10 A	-	L1-N	1m	fast connection	grey
		•	•	70105017	10 A	-	L2-N	1m	stripped	orange
		•	•	70105117	10 A	-	L2-N	3m	stripped	orange
		•	•	70105127	10 A	-	L2-N	5m	stripped	orange
		•	•	447 41	10 A	-	L2-N	1m	fast connection	orange
	•	•	•	70105018	10 A	-	L3-N	1m	stripped	blue
	•	•	•	70105118	10 A	-	L3-N	3m	stripped	blue
	•	•	•	70105128	10 A	-	L3-N	5m	stripped	blue
	•	•	·	447 42	10 A	-	L3-N	1m	fast connection	blue
_										
		•	•	70105063	10 A	-	L2-N2	1m	stripped	black
		•	·	70105163	10 A	-	L2-N2	3m	stripped	black
		•	•	70105173	10 A	-	L2-N2	5m	stripped	black
		•	·	447 43	10 A	-	L2-N2	1m	fast connection	black
_										
			2 conductors side							
			·	70265001	10 A	-	L1-N	1m	stripped	orange
				70265101	10 A	-	L1-N	3m	stripped	orange
			•	70265111	10 A	-	L1-N	5m	stripped	orange
			•	447 45	10 A	-	L1-N	1m	fast connection	orange

The availability of plugs having different colours allows you to immediately identify the circuit the device belongs to, hence giving you considerable installation advantages for future modifications. The balance control of the loads on the various phases is immediate thanks to the different colours.

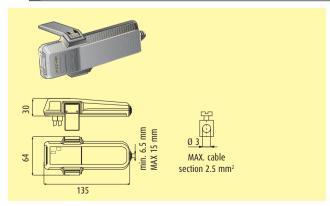
^{=&}gt; Specifies the most frequently used plugs.



	LB	3 Model		Item	Capacity	Fuse	Phase	Cable length	Cable end	Colour
	252	254	256							
	402	404	406							
			4 conductors side	Phase selectio	n single-phase	plug				
	•	•	•	70105030	16 A	Ø5x20 6.3A	selectable	-	-	grey
	•	•	•	70105031	16 A	-	selectable	-	-	grey
	•	•	•	447 47	16 A	-	selectable	1m	fast connecti	on grey
	•	•	•	70105130	16 A	Ø5x20 6.3A	selectable	3m	stripped	grey
	•	•	•	70105131	16 A	Ø5x20 6.3A	selectable	5m	stripped	grey
_				Three-phase p	lugs					
		•	•	70105141	16 A	-	L1-L2-L3-N	-	-	grey
		•	•	70105142	16 A	-	L1-L2-L3-N	3m	stripped	grey
		•	•	70105143	16 A	-	L1-L2-L3-N	5m	stripped	grey
			2 conductors side							
			•	70265002	16 A	Ø5x20 6.3A	-	-	-	orange
			•	70265003	16 A	-	-	-	-	orange
			•	70265102	16 A	-	-	3m	stripped	orange
			•	70265103	16 A	-	-	5m	stripped	orange



PLUGS WITH FUSE CARRIER CH8 - 16 A SINGLE-PHASE LB Model Phase Cable length Cable end Item Capacity Fuse Colour 252 254 256 402 404 406 4 conductors side 70105071 Ø8.5x31.5 - grey fast connection grey 16 A selectable 447 48 16 A Ø8.5x31.5 selectable 1m

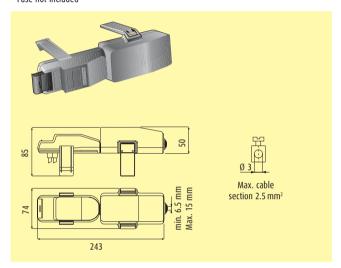


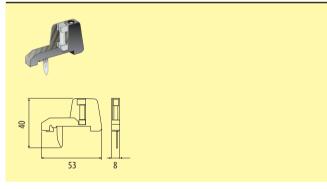


Plugs for all versions

PLUGS WITH FUSE CARRIER - 16 A THREE-PHASE Capacity A LB Model Item Fuse Phase Cable length Cable end Colour 252 254 256 402 404 406 4 conductors side 70105035 Ø 8.5x31.5* L1-L2-L3-N 16 A grey 70105045 16 A Ø 6.3x31.5 L1-L2-L3-N grey 447 49 16 A Ø 8.5x31.5 L1-L2-L3-N 1 m fast connection grey

^{*} Fuse not included





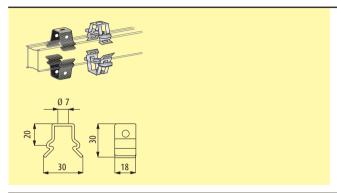
MOBILE CONTACT

Can be used to transform a single phase selection plug into a three-phase plug

Item	Capacity A	Fuse	Weight (kg)
71005028**	16 A	1	0.008
71005029	16 A	0	0.008

** 16 A contact with 6.3 A ceramic fuse For fuse features, see page 136

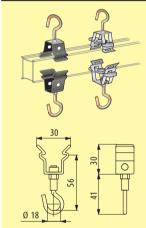
Fixing supports



SNAP-ON BRACKET (MAX. 15 KG)

Clamp to be clipped onto the element's top or bottom edge.

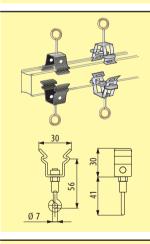
Model	Item	Weight (kg)
Burnished Steel	71003003	0.021
STAINLESS STEEL	71203701	0.021



SUSPENSION HOOK (MAX. 15 kg)

Clamp to be clipped onto the element's top or bottom edge.

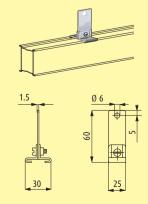
Model	Item	Weight (kg)
Burnished Steel	71005002	0.025
STAINLESS STEEL	71203702	0.025



SUSPENSION RING (MAX. 15 kg)

Clamp to be clipped onto the element's top or bottom edge.

Model	Item	Weight (kg)
Burnished Steel	71005015	0.025
STAINLESS STEEL	71203703	0.025



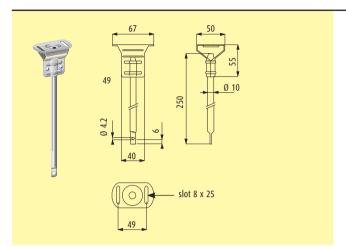
SUSPENSION BRACKET (MAX. 15 kg)

Clamp to be clipped onto the element's top or bottom edge.

Item	Weight (kg)
71003001	0.033



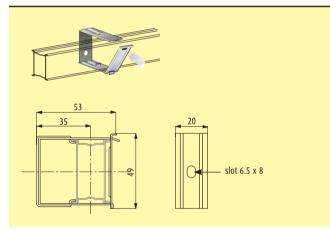
Fixing elements



BRACKET HOLDER

Must be used with code 71003001 suspension bracket.

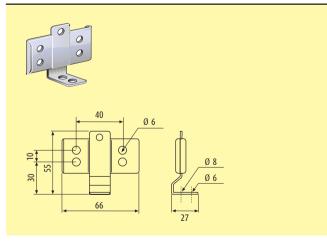
Item	Weight (kg)
73003312	0.136



WALL SUSPENSION BRACKET

Cannot be used with LB6 (no access to back side for plugs)

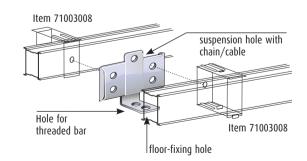
Item	Weight (kg)
71003008	0.030



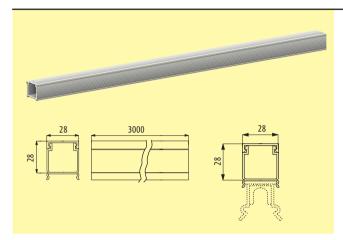
BRACKET FOR COUPLING ELEMENTS

Bracket suitable for positioning two lines in parallel. The reduced dimensions are also specified for floor installations.

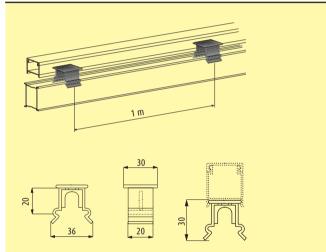
Item	Weight (kg)
70105043	0.060



Cable channel and accessories



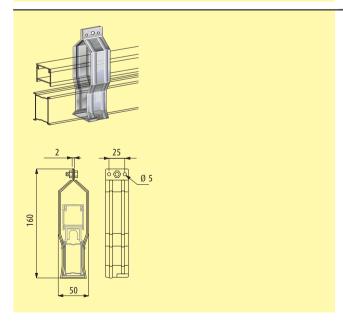
ITH COVER (RIGID PVC)	
Length [m]	Weight (kg)
3	0.884
	, , , ,



SPACER FOR CABLE CHANNEL

When ordering, consider using spacer every metre of conduit.

Item	Weight (kg)
71003007	0.006



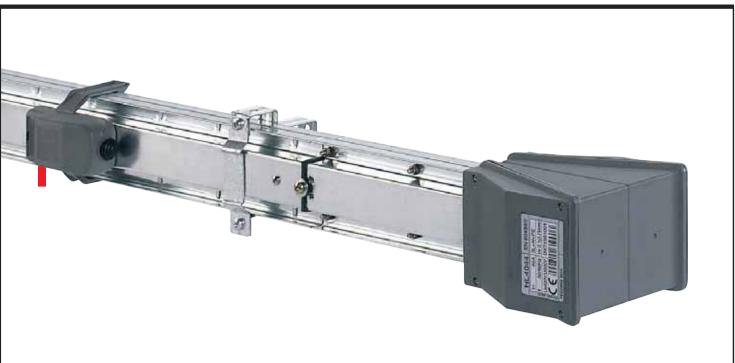
SUSPENSION BRACKET FOR CABLE CHANNEL

Suspension bracket to be used when the cable cable channel is used.

Item	Weight (kg)
71003006	0.108



HL - HIGH LIGHTING 25 - 40A



SECTION CONTENTS

- 22 General features
- 28 HLs Trunking components: 2 and 4 conductors elements
- 31 HLs plugs
- 33 HLd Trunking components: 4, 6 and 8 conductors elements
- 36 HLd plugs
- 39 Fixing supports
- 41 Cable channel and accessories
- 129 Technical information
- 135 Determination of the operating current of a busbar



HL High Lighting

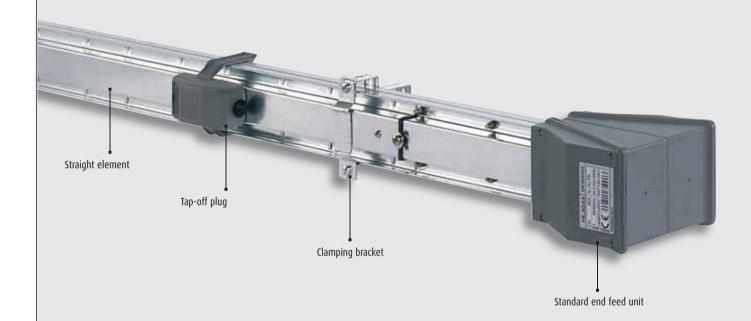
■ GENERAL FEATURES

The HL busbar line is ideal for powering lighting fixtures wherever it is necessary to hang heavy accessories onto the busbar. The main features of the HL range are:

- speed, simplicity and flexibility when installing and planning the lines;
- high mechanical rigidity obtained by the particular "beam-type configuration" and by an increased thickness of the metal casing;
- capable of being installed in systems with a distance of up to 6m between suspension brackets;
- compliance with Standard IEC 60439-1 and 2;
- rated at average room temperature of 40 °C for a higher performance level compared to the 35 °C rating required by the standard.

HL is available in two dimensions:

- **HLs** single version for 2 and 4 conductors
- **HLd** dual version for 2+2; 4+2; 4+4 and 2x4 conductors.







Exhibition pavilions

Car parks

■ STRAIGHT ELEMENTS

The components and the features of the HL straight elements are:

- a beam-shaped casing, made with hot galvanized steel (Senzimir) (due to its cross-section and electrical continuity, it also serves as the protective earth)
- HLs busbar dimensions: 26x62mm; HLd: 40x70mm;
- upon request, the straight elements are also available in the Aisi 304 stainless steel version;
- number of conductors: 2, 4, 6 or 8 rigid copper conductors with a 99.9% purity;
- conductor section: 3.14 mm² for 25 A and 6.15 mm² for 40 A:
- separation between the conductors by using a V0 (according to UL94) self-extinguishing insulating plastic sheathe and in compliance with the glowwire test according to IEC 60695-2-10;
- tap-off outlets equidistant every 1m (3 outlets every 3m) or 0.5m (6 outlets every 3m), receiving the corresponding tap-off plugs (in the LB 6 conductor version the outlets are arranged on both sides of the busbar: 3+3 or 6+6 outlets);

a junction block automatically ensuring electrical continuity

The connection between two straight elements is quick; with one operation the mechanical and the electrical connection is ensured between two joined elements; at the same time, an IP 55 degree of protection is guaranteed without using additional sealing accessories.

The continuity of the protective conductor (casing) is guaranteed by tightening the special connection screw.

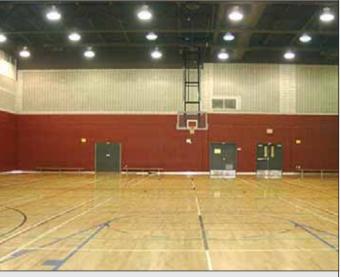
The whole busbar is fire retardant in compliance with the Standard IEC 60332-3.

In the HLd (dual) version, the straight elements are separated over their entire length by a metal plate divider (thickness 0.8 mm) which separates the straight elements in two parts making the two circuits totally independent. Because of this division the HLd busbar can be used for powering "normal" and "emergency" loads.

The HLd line is designed so as to provide two separate rated circuits (25 A+25 A or 40 A+40 A) on without a derating factor, and not one one 25 or 40 A incoming divided into two circuits.



Small/medium industries



Gyms



HL High Lighting

FEED UNITS

Allows you to electrically power the HL line through one (HLs) or two separate lines (HLd); the installation is carried out with a quick junction connection as with the straight elements.

The feed units have terminals for the connection of flexible cables for sections of up to 25 mm². There is an anti-pullout cable clamp inside the feed unit. The entrance point for the incoming cable is positioned on the end of the feed unit.



Standard end feed unit

■ END COVER

The end cover ensures the IP 55 protection degree at the end of the line.



Standard end cover

FIXING DEVICES

Specific accessories are available for attaching the busbar to the structure of the building (directly or with a steel chain or cable). The accessories for overhead fixing are:

- snap clamp: the snap-on installation is extremely fast. This bracket is suitable both for overhanging the busbar to the ceiling and for hanging products such as fluorescent lamps, tap-off boxes, etc., to the busbar itself;
- snap clamp with ring or hook: the ring or the hook enables to hang lamps easily;
- simple bracket: used with the ceiling bracket holder, it enables the installation the busbar directly onto the ceiling at a distance of about 25 cm;
- wall bracket: enables the fixing of the busbar directly onto the wall of a building, setting it at the required distance enabling the installation of the necessary components.



Fixing accessories for fastening the busbar run to the structure and hanging the lamps onto the busbar

■ TAP-OFF PLUGS

Used for connecting and energizing light fixtures; their features include:

- can be inserted and removed when the busbar is energized and when the fixure is under load;
- the PE contact (protective earth) is the first to make an electrical connection when inserting the plug into the outlet and it is the last to disconnect when pulling it out;
- all insulating plastic components are in compliance with the glow-wire test (IEC 60695-2-10) with V1 selfextinguishing degree (UL94);
- standard IP 55 degree of protection without using additional accessories according to Standard IEC 60529;
- in the HLd line, the plugs are polarized, in other
 words the plug which is busbar on one side of the
 element cannot be installed on the other side due to a
 mechanical lock on the outlet;
- the tap-off plugs are different for the HLs 2, 4 and

- HLd 2+2, 4+2, 4+4; 2x4 conductors offer. They include:
- a) 16 A phase selection tap-off plugs, pre-wired with 1m of 3x1.5 mm² FROR cable;
- b) 16 A phase selection tap-off plugs, with terminals for connecting a cable;
- c) 16 A phase selection tap-off plugs, with Ø5x20mm cylindrical ceramic fuse and with terminals for connecting an L+N+PE cable;
- d) 16 A three-phase tap-off plugs, with a set of three cylindrical fuse carriers (8.5x31.5mm) with terminals for connecting a 3L+N+PE cable.



Single-phase selection plug



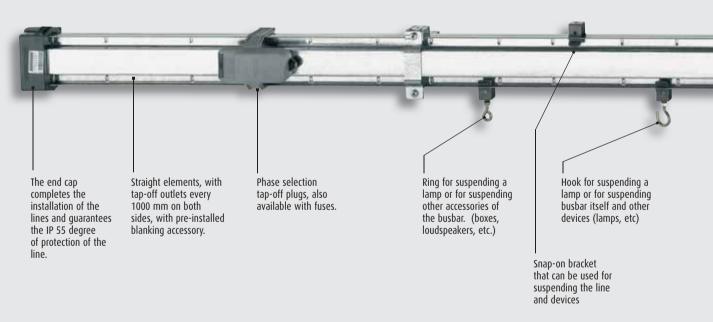
Plug with fuse carrier



Trunking components and additional elements

Depending on the different installation requirements Zucchini can provide various technical solutions:

- a) flexible joint: used to make changes of direction or to avoid possible interferences that may be found on the path of the busbar.
 - Their main technical features are:
- same connection method as the straight elements;
- electrical and mechanical connection with one operation;
- standard degree of protection: IP 55;
- continuity of the protective conductor, made from the casing of the element itself, guaranteed by tightening the special connection screw;
- b) cable trunking with cover: this accessory, which can be positioned in the upper part of the busbar, can be used to distribute auxiliary circuits, it is an integral part of the busbar run using special spacers and brackets which support the busbar trunking system firmly. The trunking part is 3 m long and its dimensions are 28x28 mm:
- c) intermediate feed unit: it can power the busbar from an intermediate point of the line, thus reducing the voltage drop at the end of the line and/or making the installation easier when the electric energy supply point is near the middle of the line.



PARTS OF THE LINE



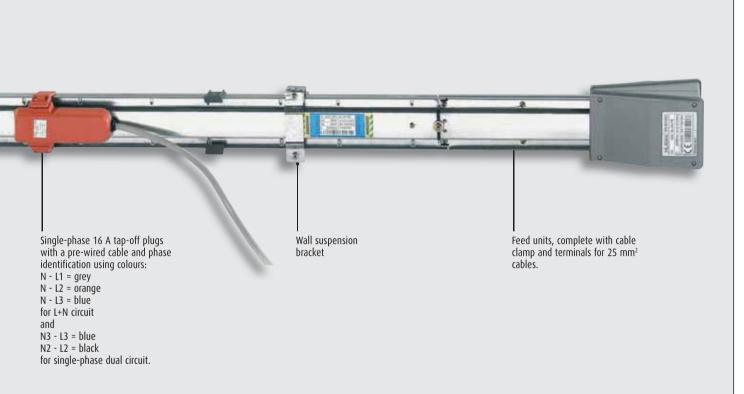
Single-phase selection plug



Plug with fuse carrier



Ceiling suspension bracket





Wall mounting bracket



Simple suspension bracket



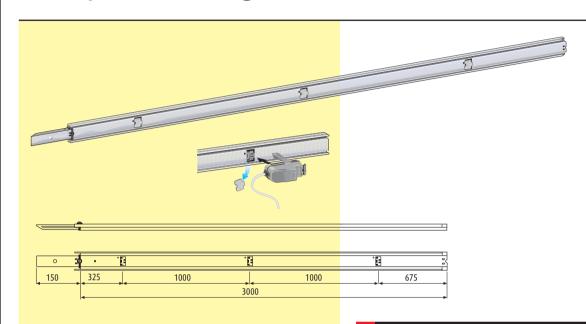
Snap-on stainless steel hook, ring and bracket

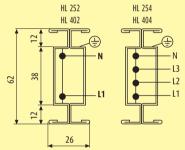


Outlet cover (spare)



HL Trunking components - single





STRAIGHT ELEMENT

Elements with pre-installed outlet covers.

Model	Item	Length (m)	Rating (A)	Conductors	No. of outlets	Weight (kg)
HL 252	71010151	3	25	2	3	4.5
HL 252	71010161	1.5	25	2	2	2.25
HL 402	71030151	3	40	2	3	4.8
HL 402	71030161	1.5	40	2	2	2.4
HL 254	71020151	3	25	4	3	4.8
HL 254	71020161	1.5	25	4	2	2.4
HL 404	71040151	3	40	4	3	5.1
HL 404	71040161	1.5	40	4	2	2.55





OUTLET COVER (Spare)

The straight elements are supplied with outlet cover pre-installed on the outlets.

Model	Item	Colour	Weight (kg)
All	71023601	grey	0.011









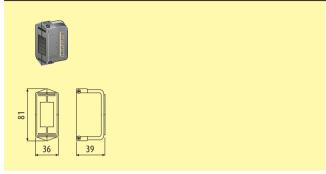
Max. cable section 25 mm²

STANDARD FEED UNIT

Supplied without an electric and mechanical bayonet connection. It must be installed on one side of the element, located near the linking bayonet.

Model	Item	Weight (kg)
All	71041001	0.800
F 1.1	1 1 454	

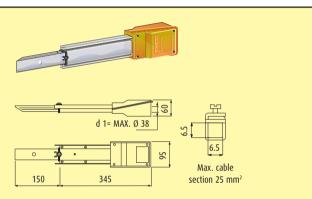
For cable glands see page 136



STANDARD END COVER

To be used with standard feed units

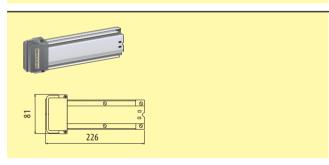
Model	Item	Weight (kg)
All	71041301	0.050



END-LINE FEED UNIT

Supplied with an electric and mechanical bayonet connection. It must be installed on the extremity of the element without the bayonet. Can be used when power feed is needed at both ends of a run (less voltage drop) or cabled in association with a standard feed unit to create a flexible element to bypass large obstacles (beams, air ducts, etc)

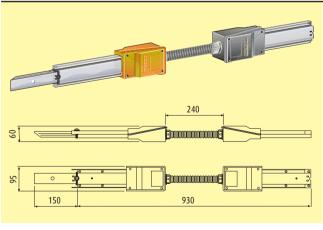
Model	Item	Weight (kg)
All	71041002	1.000



END COVER

To be used with end-line feed unit.

Model	Item	Weight (kg)
All	71041302	0.360



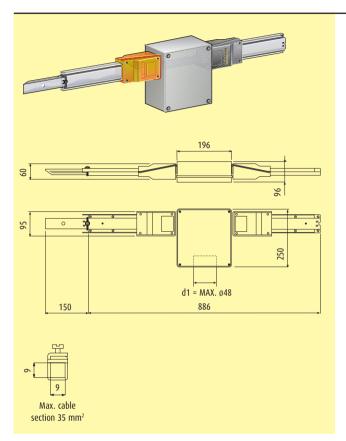
FLEXIBLE JOINT

Used to make changes of direction.

Model	Item	Weight (kg)
All	71041261	2.500



HLs Trunking components



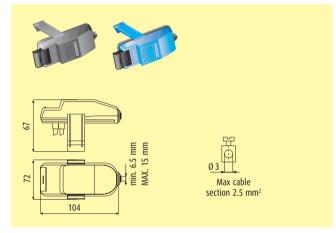
CENTRE FEED UNIT 25/40A

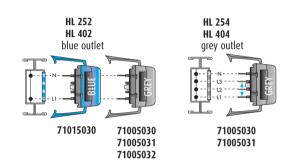
Used to power a busbar from an intermediate point. The intermediate power box is also used for reducing the voltage drop of the line.

Model	Item	Weight (kg)
All	71041151	2.900

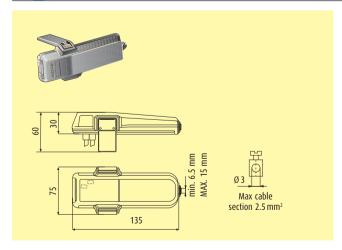
HLs plugs

Р	PHASE SELECTION SAFETY PLUGS								
	Мо	del	Item	Rating	Fuse	Phase	Cable length	Cable end	Colour
	252	254							
	402	404							
	•	•	71005030	16 A	Ø5x20	selectable	-	-	grey
	•	•	71005031	16 A	-	selectable	-	-	grey
	•	•	71005032	16 A	-	selectable	1m	stripped	grey
	•		71015030	16 A	Ø5x20	L1-N	-	-	blue



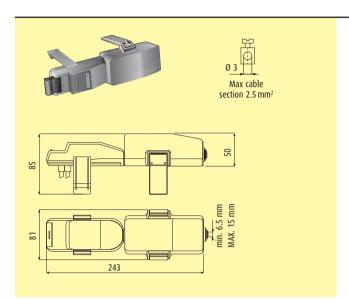


SII	SINGLE-PHASE PLUGS WITH FUSE CARRIER								
	Мо	del	Item	Rating	Fuse	Phase	Cable length	Cable end	Colour
	252	254							
	402	404							
	•	•	71005068	16 A	Ø8.5x31.5	selectable	-	-	grey
	•	•	71005070	16 A	Ø8.5x31.5	L1-N	1m	stripped	grey
		•	71005071	16 A	Ø8.5x31.5	L2-N	1m	stripped	orange
		•	71005072	16 A	Ø8.5x31.5	L3-N	1m	stripped	blue



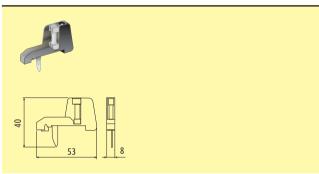


HLs plugs



THREE-PHASE PLUGS WITH FUSE CARRIER						
Model		Item	Rating	Fuse	Phase	Colour
252	254					
402	404					
	•	71005035	16 A	Ø8.5x31.5 *	L1-L2-L3-N	grey

* Fuse not included



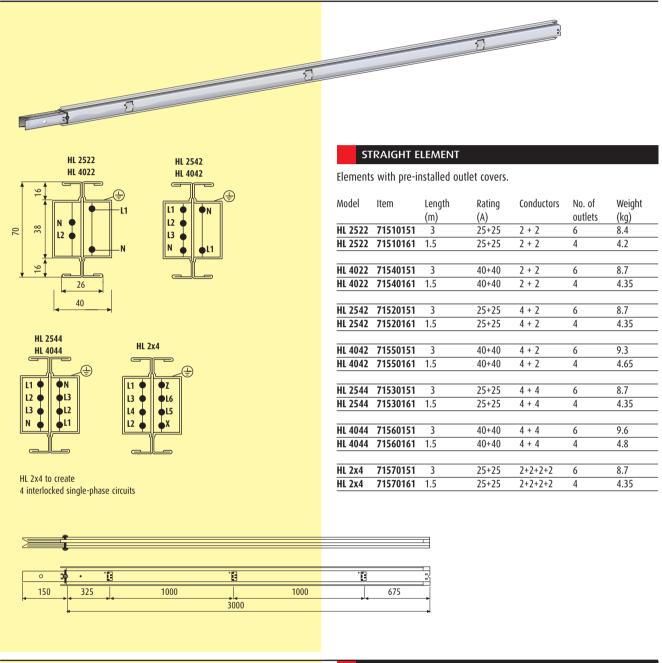
MOVABLE CONTACT

To be added when creating three-phase versions of the safety tap-off plugs (2 for each plug).

Item		Capacity	Fuse	Weight (kg)
71005028	**	16 A	1	0.010
71005029	•	16 A	0	0.010

** 16 A contact with 6.3 A fuse

HLd Trunking components



35

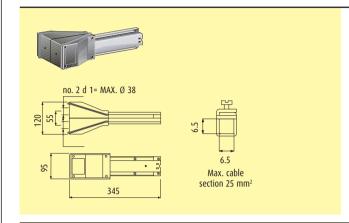
OUTLET COVER (spare)

The elements are supplied with outlet covers pre-installed on the outlet covers.

Model	Item	Colour	Weight (kg)
All	01150048	grey	0.011



HLd Trunking components



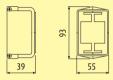
STANDARD FEED UNIT 25/40A

Supplied without an electric and mechanical bayonet connection. It must be installed on one side of the element, located near the linking bayonet. The feed unit has two separate cable inputs and the terminals are totally separated and independent.

Model	Item	Weight (kg)
All	71561001	1.100

Cable gland selection page 136

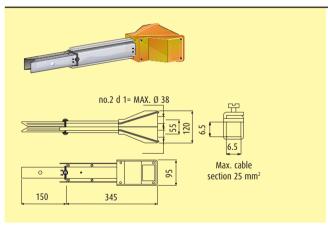




STANDARD END COVER

To be used with the standard feed unit

Model	Item	Weight (kg)
All	71561301	0.090

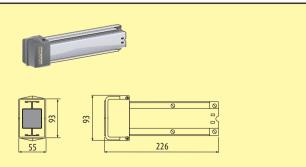


END-LINE FEED UNIT 25/40A

Supplied with an electric and mechanical bayonet connection. It must be installed on one side of the element, not located near the linking bayonet. The feed unit has two separate cable inputs and the terminals are totally separated and independent.

Model	Item	Weight (kg)
All	71561002	1.600

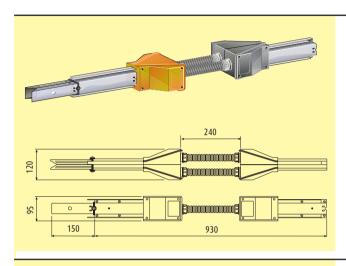
Cable gland selection page 136



END COVER

To be used with the end-line feed unit.

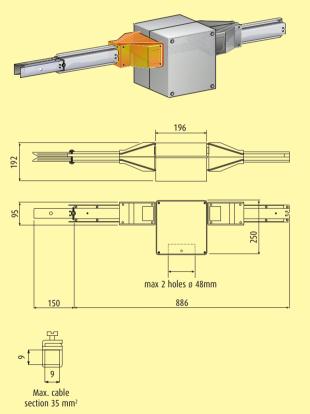
Model	Item	Weight (kg)
All	71561302	0.786



FLEXIBLE JOINT 25/40A

Used to make changes of direction.

Model	Item	Weight (kg)
All	71561261	3.000



CENTRE FEED UNIT 25/40A

Used to power a busbar from an intermediate point. The intermediate power box is also used for reducing the voltage drop of the line.

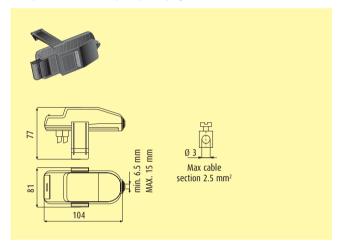
Model	Item	Weight (kg)
All	71561151	3.800



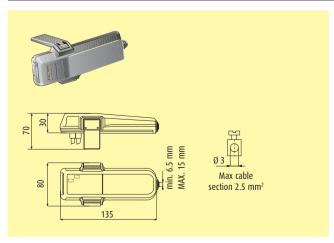
HLd plugs

HLd PLUGS											
		Mod	del		Item	Rating	Fuse	Phase	Cable length	Cable end	Colour
	2522	2542	2544	2x4							
	4022	4042	4044								
=>	•	•	•	•	71505030	16 A	Ø5x20	selectable	-	-	grey
=>	•	•	•	•	71505031	16 A	-	selectable	-	-	grey
	•	•	•	•	71505032	16 A	-	selectable	1m	stripped	grey
_											
	•	•			71515030	16 A	Ø5x20	L1-N	-	-	blue
	•				71515031	16 A	Ø5x20	L2-L3	-	-	orange
_											
				•	71575030	16 A	Ø5x20	L1-L2	-	-	blue
				•	71575031	16 A	Ø5x20	L3-L4	-	-	black
				•	71575032	16 A	Ø5x20	L5-L6	-	-	orange
				•	71575033	16 A	Ø5x20	X-Z	-	-	brown

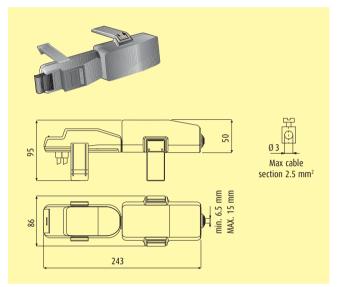
^{=&}gt; Specifies the most frequently used plugs.

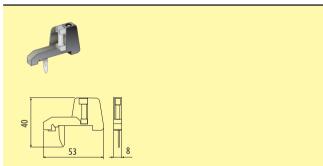


S	SINGLE-PHASE PLUGS WITH CH8 FUSE CARRIER										
	Model Item Rating Fuse Phase Cable length Cable end Colour									Colour	
	2522	2542	2544	2x4							
	4022	4042	4044								
	•	•	•	•	71505059	16 A	Ø8.5x31.5	selectable	-	-	grey
_											
		•	•		71505070	16 A	Ø8.5x31.5	L1-N	1m	stripped	grey
		•	•		71505071	16 A	Ø8.5x31.5	L2-N	1m	stripped	orange
		•	•		71505072	16 A	Ø8.5x31.5	L3-N	1m	stripped	blue



THREE-PHASE PLUGS WITH FUSE CARRIER								
	Mode	I		Item	Rating A	Fuse	Phase	Colour
2522	2542	2544	2x4		-			
4022	4042	4044						
	•	•	_	71505035	16 A	Ø8.5x31.5	L1-L2-L3-N	grey





MOVABLE CONTACT

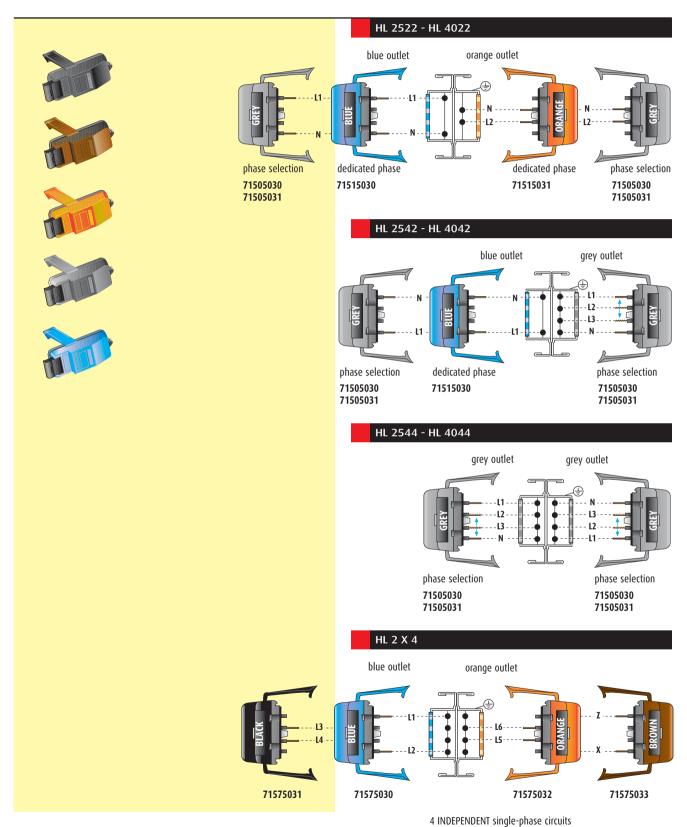
To be added to create three-phase versions of the safety tap-off plugs (2 for each plug).

Item	Rating A	Fuse	Weight (kg)
71005028*	16	1	0.010
71005029	16	0	0.010

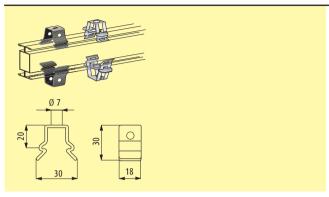
^{* 16} A contact with 6.3 A fuse



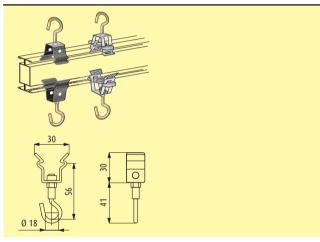
HLd plugs



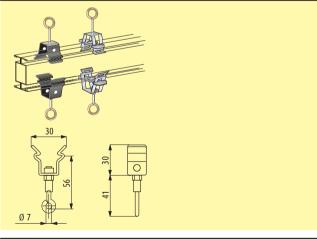
Fixing supports



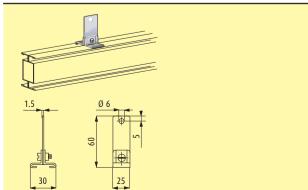
	SNAP-ON BRACKET (MAX. 15 kg)						
Mode	I	Item	Weight (kg)				
Burni	ished Steel	71003003	0.021				
STAIN	LESS STEEL	71203701	0.021				



SUSPENSI	ON HOOK (MAX. 15 kg)	
Model	Item	Weight (kg)
Burnished Steel	71005002	0.025
STAINLESS STEEL	71203702	0.025



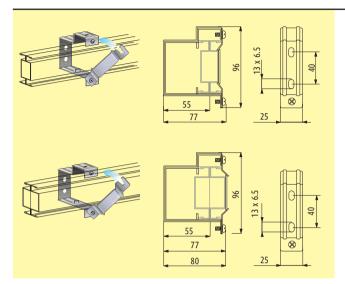
SUSPENSION RING (MAX. 15 kg)				
Model	Item	Weight (kg)		
Burnished Steel	71005015	0.025		
STAINLESS STEEL	71203703	0.025		



303FENSION BRACKET (MAX. 13 kg)	
Item	Weight (kg)
71003001	0.033



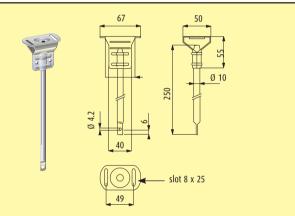
Fixing elements



WALL SUSPENSION BRACKET

For wall mounting of the HLd elements, it is possible to connect the plug on the internal side only if the busbar is taken out of the wall bracket, then insert the plug and replace the element afterwards.

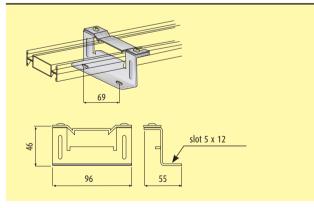
Item	Weight (kg)
71003009	0.090



CEILING BRACKET HOLDER

Must be used with the code 71003001 suspension bracket.

Item	Weight (kg)
73003312	0.136



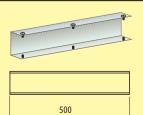
FLOOR FIXING BRACKET

Only for the HLs single version. Suitable for horizontal HLs floor fastening.

Item	Weight (kg)
71003018	0.090

Compatible with:

HL 252, HL 402, HL 254, HL 404

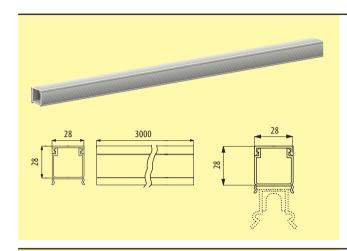


JUNCTION STIFFENER

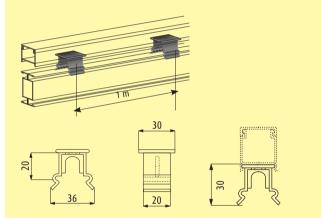
To be used for strengthening bracket links with suspension centre distances that are over 5m.

Model	Item	Weight (kg)
for single-type	71042024	0.200
for dual-type	71042025	0.200

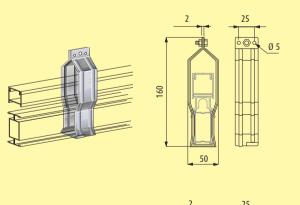
Cable channel and accessories

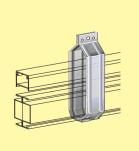


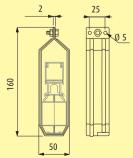
	CABLE CHANNEL WITH COVER (RIGID PVC)			
Mode	l	Length [m]	Weight (kg)	
7100	0104	3	0.884	



	SPACER FOR CABLE CHANNEL	
Item		Weight (kg)
7100	3007	0.006







HLs - SUSPENSION BRACKET FOR CABLE CHANNEL

Overhead bracket to be used when the cable trunking is used above the busbar.

Item	Weight (kg)
71003006	0.108
Compatible with:	

HL 252, HL 402, HL 254, HL 404

HLd - SUSPENSION BRACKET FOR CABLE CHANNEL

Suspension bracket to be used when the cable trunking is used above the busbar.

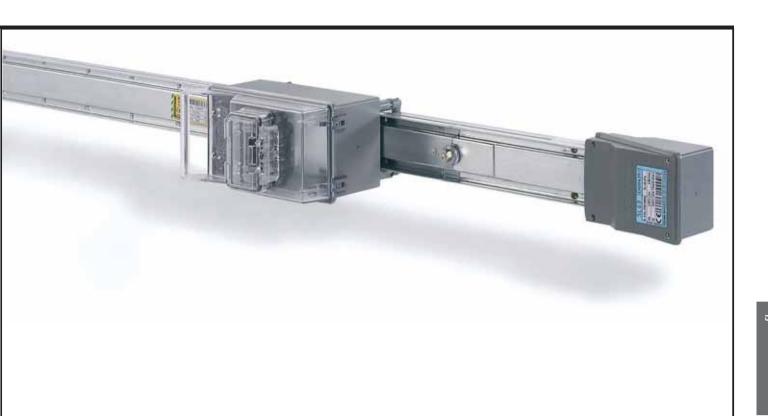
Item	Weight (kg)
71503006	0.108
6 (11)(1	

Compatible with:

HL 2522, HL 4022, HL 2544, HL 4044, HL 2542, HL 4042, HL 2 x 4



SL - SERIE LUCE 40 - 63A



SECTION CONTENTS

- 44 General features
- 50 Trunking components
- 52 Plugs and tap-off boxes
- 53 Fixing supports
- 55 Cable channel and accessories
- 130 Technical information
- 135 Determination of the operating current of a busbar



SL Serie Luce

■ GENERAL FEATURES

The Zucchini SL line is suitable for powering small one-phase and three-phase equipment, such as: industrial refrigerators, lathes, hand tools, etc. The main features of the SL range are:

- speed, simplicity and flexibility when installing and planning the lines;
- reduced dimensions;
- a rigid and robust structural design for severe installation conditions;
- tap-off boxes with possibility of local protection with mcbs (Legrand Lexic series);
- capable of being installed in systems with a bracket centre distance of up to 6m;
- compliance with Standard IEC 60439-1 and 2;
- rated at average room temperature of 40°C for a higher performance level compared to the 35°C rating required by the standard.



Shopping centres



Small industries



■ STRAIGHT ELEMENTS

The components and the features of the SL straight elements are:

- a "beam-shaped" section, made with hot galvanized steel (Senzimir) which, thanks to its section and electrical continuity, can also serve as a protective conductor;
- · casing thickness: 0.8mm;
- busbar dimensions: 26x62mm;
- number of conductors: 4 copper conductors with purity no less than 99.9%; section of conductors:
 9.5 mm² per In 40A and 12.3 mm² per In 63A;
- separation between the conductors by using a V0 self-extinguishing insulating plastic sheathe (according to UL94) and in compliance with the glow-wire test according to IEC 60695-2-10;
- tap-off outlets (IP40/IP 55) with a centre distance of 0.75 m (4 outlets every 3m), set up for being connected with plugs and/or tap-off boxes;
- an electrical joint block for automatically connecting live parts.

The connection between two straight elements is quick; with one operation the electric and a mechanical connection is easily made. The IP40 performance of the SL line can be easily upgraded to IP 55 with joint covers and outlet covers. The continuity of the protective earth is automatically ensured when two components are joined. The whole busbar is fire retardant in compliance with the IEC 60332-3 standard. There are also 3m straight elements with 6 or 10 tap-off outlets. These versions, which are characterized by high density junction points, are particularly valued in floating underfloor installations or when distributing energy on board the machine.



Power lines



Light lines



SL Serie Luce

FEED UNITS

The feed unit is assembled to the run in an identical manner as with the straight elements. The feed units have terminals for the connection of copper cables for sections of up to 25 mm².

There is an anti-pullout cable clamp jumper inside the power supply. The entrance point of the cables is positioned on the end of the feed unit.



■ END COVER

The end cover ensures the IP 55 protection degree at the end of the line.



End cover

FIXING SUPPORTS

Specific accessories are available for fixing the line to the structure of the building (directly or with a steel chain or cable). The accessories for overhead fixing are:

- snap clamp: the snap-on installation is extremely fast. This bracket is suitable both for overhanging the busbar to the ceiling and for hanging products such as fluorescent lamps, tap-off boxes, etc., to the busbar itself;
- snap clamp with ring or hook: the ring or the hook enables to hang lamps easily;
- simple bracket: used with the ceiling bracket holder, it enables the installation the busbar directly onto the ceiling at a distance of about 25cm;
- wall bracket: enables the fixing of the busbar directly onto the wall of a building, setting it at the required distance enabling the installation of the necessary components.



Fixing accessories for fastening the busbar run to the structure and hanging the lamps onto the busbar

■ PLUGS AND TAP-OFF BOXES

Used for connecting and energizing small single and three-phase loads; their features include:

- manoeuvrability when energized;
- the PE contact (protective earth) is the first to make an electrical connection when inserting the plug into the outlet and it is the last to disconnect when pulling it out:
- all insulating plastic components are in compliance with the glow-wire test (IEC 60695-2-10) with V1 selfextinguishing degree (UL94);
- IP 55 according to Standard IEC 60529, with no additional accessories.

Tap-off plugs are three-phase, 32A plugs available in two versions; without fuse or with 10.3×38 mm fuse carriers.

Tap-off boxes allow local protection of the derivation using the Legrand Lexic DIN rail mounting mcbs.
The following are available:

- a) 32A empty tap-off boxes with a disconnection system integrated into the cover: when the cover is opened the power is automatically disconnected from all the accessible metal parts;
- b) 32A tap-off box with a 4 module DIN window: In these boxes, the window allows the possibility of operating the Lexic DIN rail modules without opening the cover.



Tap-off box



Trunking components and additional elements

Depending on the different installation requirements Zucchini can provide various technical solutions:

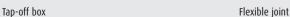
- a) Flexible joint: used to make changes of direction or to avoid possible interferences that may be found on the natural path of the busbar. The features are as follows:
- same connection method as the straight elements;
- electrical and mechanical connection with one operation;
- degree of basic protection IP40 (IP 55 with joint covers and outlet covers);

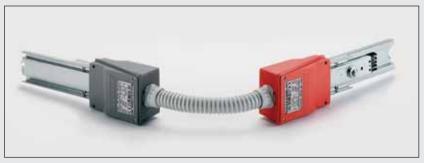
- continuity of the protective conductor, made from the casing of the element itself, guaranteed by tightening the special connection screw;
- b) cable trunking with cover: this accessory, which can be positioned on the upper or lower part of the busbar, can be used to distribute auxiliary circuits. It is an integral part of the busbar by using special spacers and brackets which hold the busbar trunking system firmly.

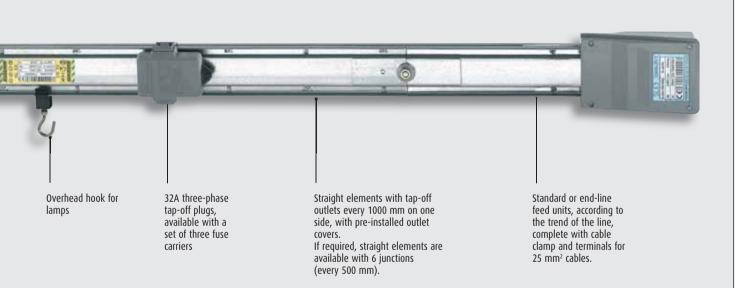


■ PARTS OF THE LINE











Wall mounting bracket



Simple suspension bracket



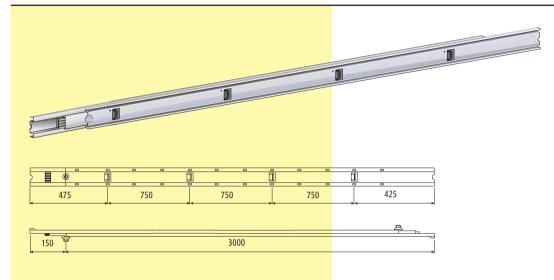
Snap-on stainless steel brackets

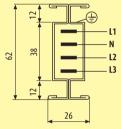


Outlet cover



Trunking components





STI	RAIGHT ELEM	ENT			
Model (kg)	Item	Length (m)	Rating (A)	No. of outlets	Weight
SL40	70400101	3	40	4	6.200
SL40	70400111	3	40	6	6.800
SL40	70400112	3	40	10	7.300
SL40	70600102	1.5	63	2	3.850
SL63	70600101	3	63	4	6.500
SL63	70600111	3	63	6	6.900
SL63	70600112	3	63	10	7.400
SL63	70600102	1.5	63	2	3.850





IP 55 OUTLET COVER

Item	Weight (kg)
71002062	0.474

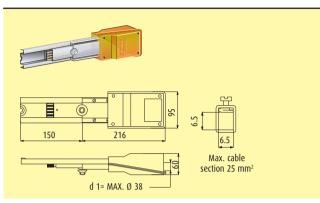
One cover needed per unused outlet

216 150	5.9
d 1= MAX Ø 38	Max. cable section 25 mm²

STANDARD FEED UNIT

Model	Item	Weight (kg)
IP 55	70601061	0.750
- 11	1 1	

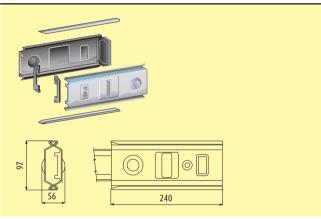
Cable gland selection page 136



END-LINE FEED UNIT

Mod	el Item		Weight (kg)
IP 5	5 70601	062	0.826

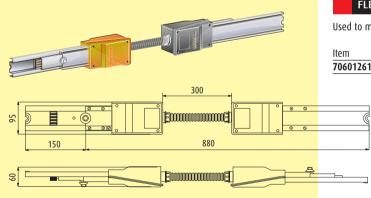
Cable gland selection page 136



IP 55 END COVER

Ensures the IP 55 at the end of the line. Used with standard and end-line feed unit.

Item	Weight (kg)
71001351	0.570



240

FLEXIBLE JOINT

Used to make changes of direction.

Item	weight (kg)
70601261	1.900

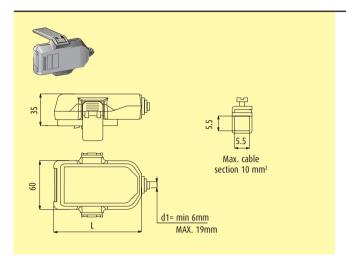
IP 55 JOINT COVER

When applied to each joint it increases the line from IP40 to IP 55. $\label{eq:point}$

Item	Weight (kg)
71002051	0.474

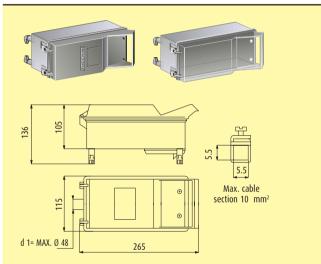


Plugs and tap-off boxes



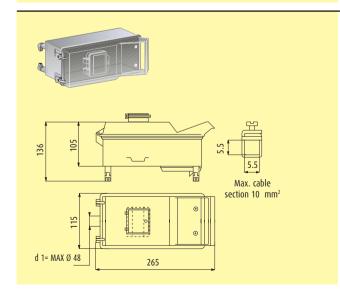
32	2A TAP-OFF PI	LUGS 3F	P+N		
Model	Item	Rating (A)	Fuse junctions	L= [mm]	Weight (kg)
IP 55	70605051	32	-	80	0.070
IP 55	70605052	32	──Ø 10.3x38 *	105	0.100

^{*} Fuses not supplied



32A EMPTY TAP-OFF BOXES 3P+N			
Model	Item	Feature	Weight (kg)
IP 55	70605054	Grey cover	0.700
IP 55	70605055	Transparent cover	0.700

Cable gland selection page 136



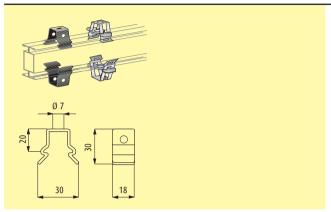
32A TAP-OFF BOX WITH TRANSPARENT COVER AND DOOR

(set up for modular circuit breakers – max 4 DIN modules).

Model	Item	Weight (kg)
IP 55	70605053	0.800

Cable gland selection page 136

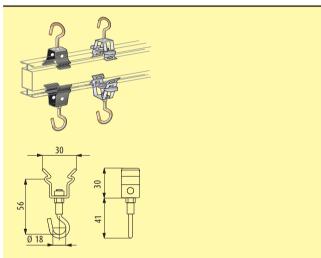
Fixing supports



SNAP-ON BRACKET (MAX 15 KG)

Suspension support to be fixed on the element edges.

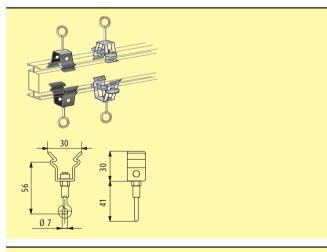
Model	Item	Weight (kg)
Burnished Steel	71003003	0.021
Stainless steel	71203701	0.021



SUSPENSION HOOK (MAX 15 KG)

Suspension support to be fixed on the element edges.

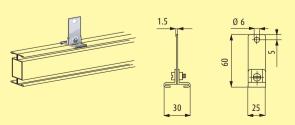
Model	Item	Weight (kg)
Burnished Steel	71005002	0.025
Stainless steel	71203702	0.025



SUSPENSION RING (MAX 15 KG)

Suspension support to be fixed on the element edges.

Model	Item	Weight (kg)
Burnished Steel	71005015	0.025
Stainless steel	71203703	0.025



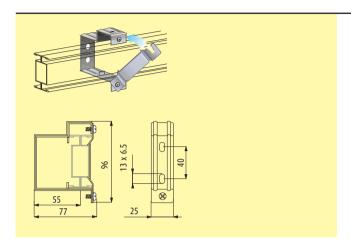
STANDARD SUSPENSION BRACKET (MAX 15 KG)

Suspension support to be fixed on the element edges.

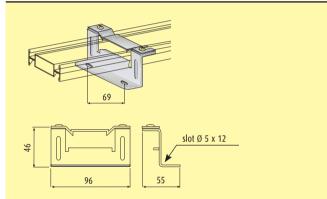
Item	Weight (kg)
71003001	0.033



Fixing supports



Weight (kg)
0.090

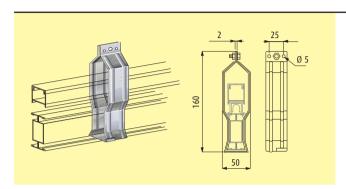


FLOOR FIXING BRACKET

Suitable for horizontal floor fastening.

Item	Weight (kg)
71003018	0.090

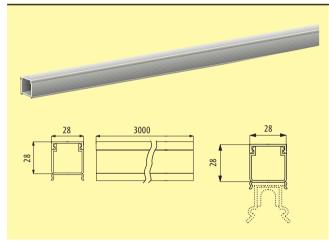
Cable trunking and accessories



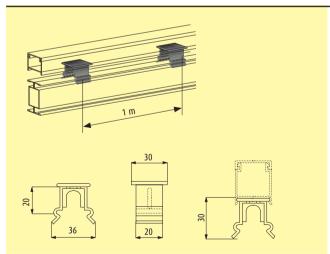
SUSPENSION BRACKET FOR CABLE CHANNEL

Overhead bracket to be used when the cable trunking is used.

Item	Weight (kg)
71003006	0.108



CABLE CHANNEL WITH COVER (RIGID PVC)			
Item	Length [m]	Weight (kg)	
71000104	3	0.884	



9	SPACER FOR CABLE CHANNEL					
Item						Weight (kg)
710030	07					0.006
	- 1	- 1 /		,	1. 1.	

A spacer must be used for every metre of conduit



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