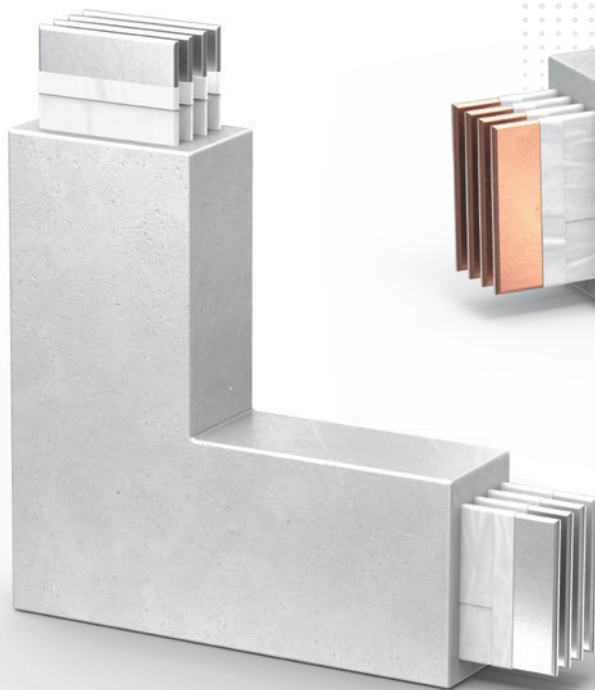


IP68 RCP

**RESIN BUSBAR
TRUNKING
FOR POWER
DISTRIBUTION**





IP68 RCP RESIN busbar trunking

RCP resin busbar is the latest addition to the Zucchini range. With an ingress protection rating of IP68 and ranging from 630 A to 6300 A, RCP is ideal for the distribution of high power energy in external environments.

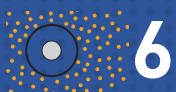
RCP is manufactured with either aluminium or copper conductors which are completely embedded in an epoxy resin, that provides mechanical strength and electrical insulation.

RCP resin busbar has good performance in fire conditions and exceeds the requirements stipulated in IEC 60331-1 : 2009 for continuity of service in the event of fire.

DEGREE OF PROTECTION IP68

1ST DIGIT IP

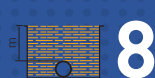
Protection against penetration of solid bodies



Complete protection against dust

2ND DIGIT IP

Protection against penetration of liquids



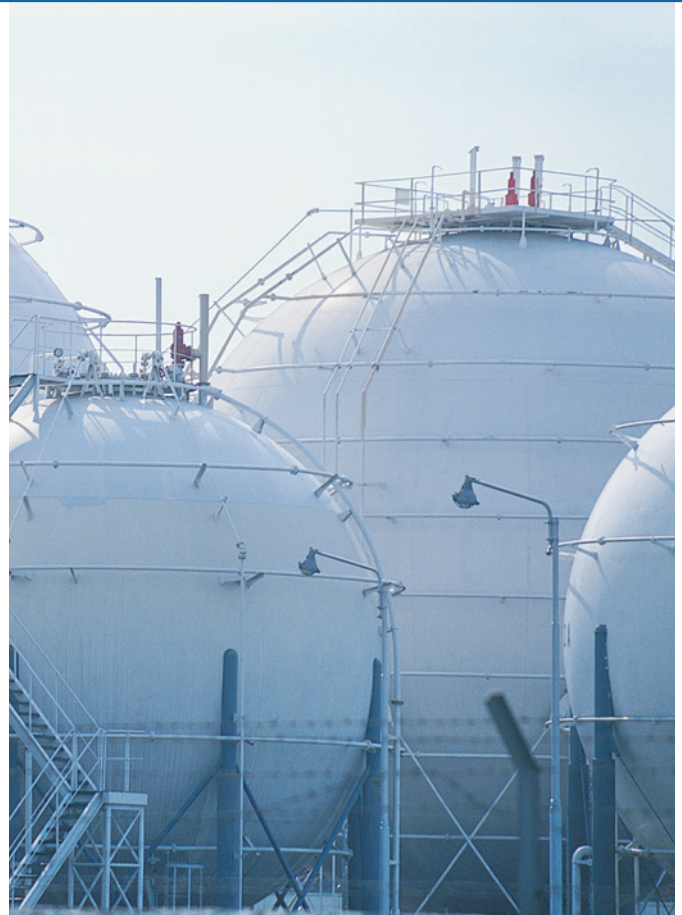
Protection against effects of immersion under pressure
(At a maximum of 1m according to BS EN 60529)

BUSBAR TRUNKING

- Conductors insulated in polyester film
- Fully encapsulated in epoxy resin
- Rated current between 630 - 6300 A
- Insulation voltage up to 1000 V
- Compact dimensions
- Maintenance free

CONDUCTOR MATERIAL

- Copper busbars with a purity greater than 99.9%
- Aluminium alloy busbars have their entire surface treated with protective galvanic processes
- Degree of protection: IP68 according to BS EN 60529



SUITABLE FOR INDOOR AND OUTDOOR INSTALLATIONS

RCP trunking is suitable for use in extreme conditions, including humidity, corrosion and saline mist environments; it offers good resistance to chemicals (*), and can be used in areas with temporary immersion risks.



Typical applications

In a range of **EXTREME ENVIRONMENTS**

- industrial plants
- petrochemical plants
- chemical plants (*)
- in areas with risk of flooding

Or less extreme environments but with **DEMANDING REQUIREMENTS**

- data centres
- hospitals
- military buildings
- offices

(*) refer to the table of chemical resistance on page 12.

RANGE

features



Main features of RCP busbar trunking

- Ingress protection: IP68
- Mechanical impact: IK10
- Temporary immersion conditions up to 1 metre
- Excellent resistance to chemicals (suitable for use in petrochemical and chemical industries)
- Certified to IEC EN 61439-6
- Continuity of service in the event of fire exceeds the requirements of IEC 60331-1 : 2009 (min 830°C – 120 min. operating continuity)
Aluminium busbar achieves 150 min.
Copper busbar achieves 240 min.
- Resistant against fungus, animals, insects and rodents
- UV resistant
- No chimney effect
- Tropical and saline climate resistant

CERTIFICATIONS AND TESTS

RCP IP68 busbar trunking has been tested and approved to IEC EN 61439-6 for low voltage switchgear and control gear assemblies.

Part 6 refers specifically to busbar trunking systems (busways)



CONSTRUCTION

features



COMPLETE SOLUTION

RCP IP68 is a complete busbar system which includes all the necessary components to allow for any directional changes to the busbar run that your project requires.

COMPATIBILITY

The RCP IP68 system is completely compatible with the SCP IP55 range and is easily connected using a cover junction (see p. 4).

FAST AND SIMPLE CONNECTIONS

The junction between the various system components is made by a monobloc which is inserted between the phases of the components to be connected. To guarantee electrical insulation, mechanical rigidity and an IP68 degree of protection, the connection is immersed in epoxy resin which hardens and provides robustness.

IP55 - IP68 INTEGRATION

RCP IP68 busbar trunking can be used in hybrid systems where different degrees of protection are required. It is possible to connect the IP68 RCP resin busbar trunking with IP55 SCP busbar trunking using a specific cover junction connection accessory.

INSTALLATION EXAMPLE

**Outdoors: IP68 RCP
resin busbar trunking**

Fire barrier

Indoors: IP55 SCP busbar trunking

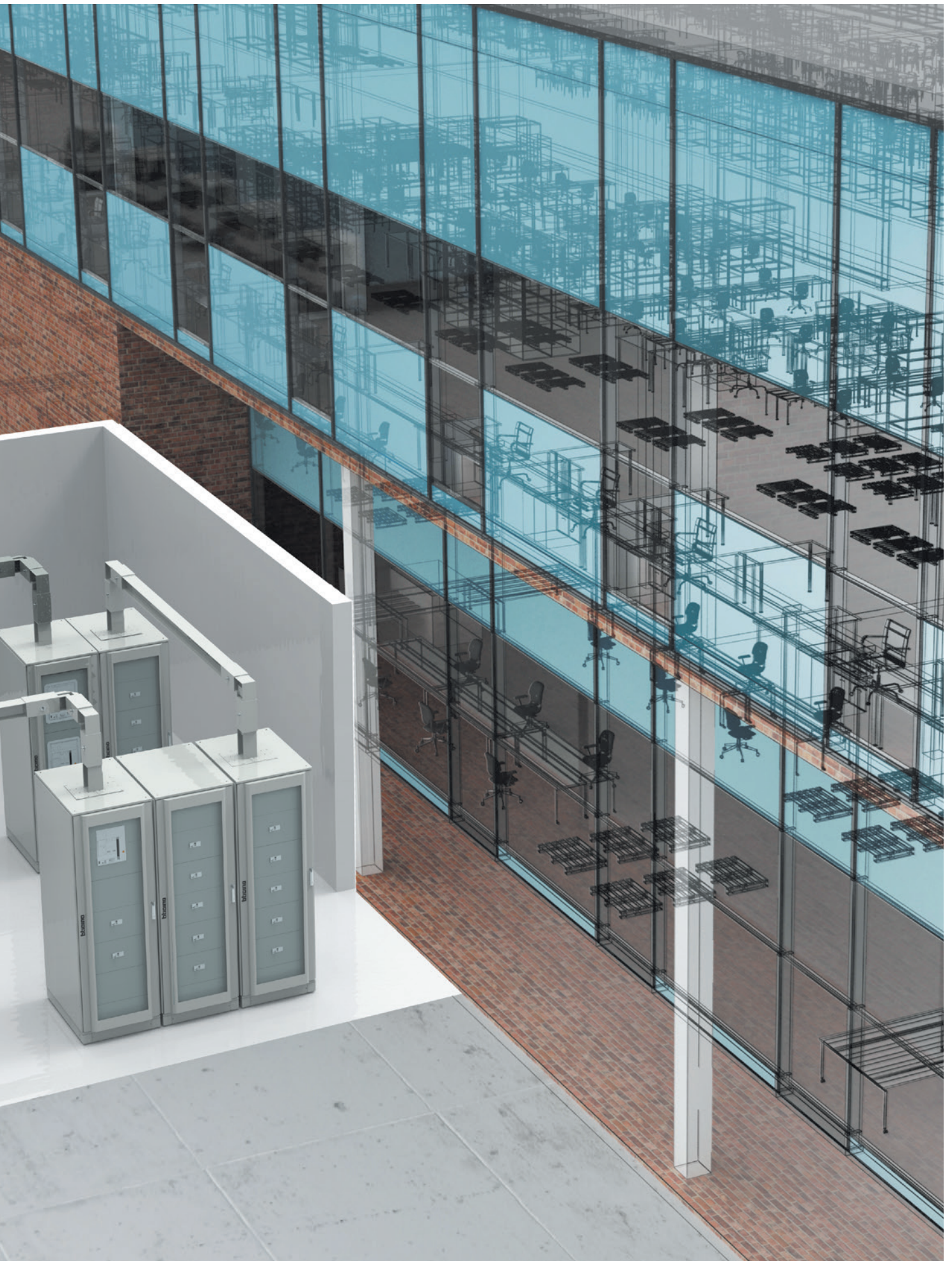
COVER JUNCTION (IP68-IP55)

RCP

SCP

Note:

For information related to closing a junction between two lengths of RCP and the necessary accessories, please contact us on +44 (0) 370 608 9020.



RANGE COMPOSITION



STRAIGHT LENGTH



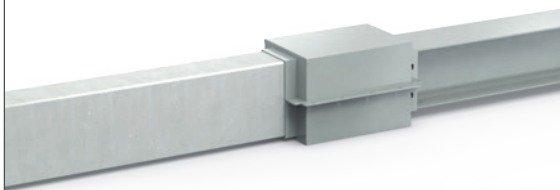
VERTICAL ELBOW



HORIZONTAL ELBOW



CONNECTION INTERFACE



COVER JUNCTION (IP68-IP55)



DOUBLE VERTICAL ELBOW



DOUBLE HORIZONTAL ELBOW



DOUBLE ELBOW
HORIZONTAL + VERTICAL



CONNECTION INTERFACE
+ HORIZONTAL ELBOW

Other components available on request

FIXING ACCESSORIES

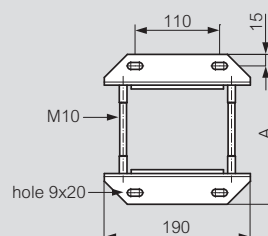
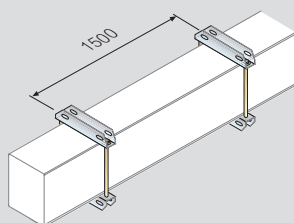
HORIZONTAL SUSPENSION BRACKET

The brackets enable sturdy fixing of the busbar to the support structure
The recommended installation distance between brackets is 1.5 metres

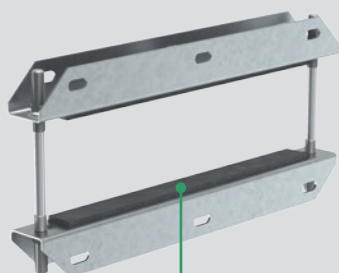


Anti-slip and anti-scratch

Edgewise installation

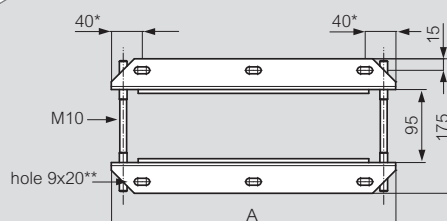
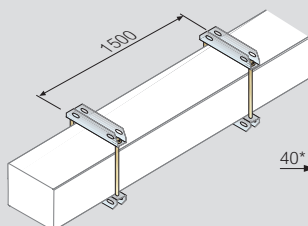


In (A)	A (mm)	
	Al	Cu
630	195	-
800	230	195
1000	230	230
1250	240	230
1600	280	270
2000	325	280
2500	380	320
3200	460	440
4000	550	460
5000	-	540



Anti-slip and anti-scratch

Flat installation

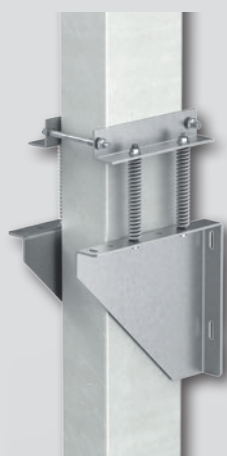


*100 mm for 1600 A and 2000 A
**9x30 mm for 1600 A and 2000 A

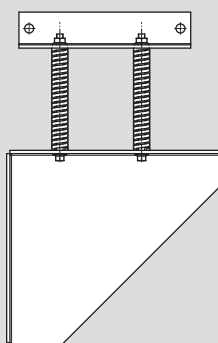
In (A)	A (mm)	
	Al	Cu
630	190	-
800	315	190
1000	315	315
1250	315	315
1600	315	315
2000	315	315
2500	370	315
3200	430	430
4000	530	430
5000	-	530

VERTICAL SUSPENSION BRACKET

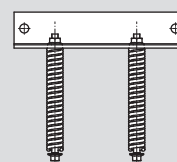
Holds bar in place and supports the weight of the system



3 types of vertical brackets



1. with shelf and springs



2. with springs



3. bracket only

TECHNICAL DATA

RCP IP68 - 4 conductor version (aluminium)

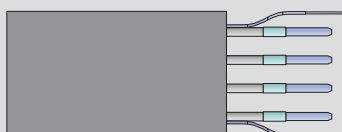
		SINGLE BAR						DOUBLE BAR			2 x 2500 DOUBLE BARS
Rated current of the BTS (ASSEMBLY as stated in 61439-1)	InA [A]	630	800	1000	1250	1600	2000	2500	3200	4000	5000
Overall dimension of the busbars	L x H [mm]	95x115	95x150	95x150	95x160	95x200	95x245	95x300	95x380	95x470	2x95x300
Overall dimension of the junction	L x H [mm]	160x180	160x180	160x180	160x180	160x220	160x270	160x350	160x430	160x490	2x160x350
Rated operational voltage	U _e [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	U _i [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated short-time current (1 s)	I _{CW} [kA] _{rms}	30	36	36	50	50	60	80	100	100	100
Peak current	I _{pk} [kA]	63	76	76	105	105	132	176	220	220	220
Rated short-time current of the neutral bar (1 s)	I _{CW} [kA] _{rms}	18	22	22	30	30	36	48	60	60	60
Peak current of the neutral bar	I _{pk} [kA]	36	45	45	63	63	76	101	132	132	132
Rated short-time current of the protective circuit (1 s)	I _{CW} [kA] _{rms}	18	22	22	30	30	36	48	60	60	60
Peak current of the protective circuit	I _{pk} [kA]	36	45	45	63	63	76	101	132	132	132
Average phase resistance at 20°C	R ₂₀ [mΩ/m]	0.082	0.061	0.061	0.049	0.035	0.027	0.024	0.017	0.013	0.012
Average phase reactance	X [mΩ/m]	0.055	0.049	0.049	0.031	0.037	0.030	0.023	0.017	0.010	0.007
Average phase impedance	Z [mΩ/m]	0.098	0.078	0.078	0.058	0.051	0.040	0.033	0.024	0.017	0.014
Average phase resistance at thermal conditions	R [mΩ/m]	0.093	0.070	0.076	0.062	0.043	0.034	0.029	0.022	0.018	0.017
Average phase impedance at thermal conditions	Z [mΩ/m]	0.108	0.086	0.091	0.069	0.057	0.046	0.037	0.028	0.021	0.018
Average neutral resistance	R ₂₀ [mΩ/m]	0.082	0.061	0.061	0.049	0.035	0.027	0.024	0.017	0.013	0.012
Average resistance of the protective bar (PE 1)	R _{PE} [mΩ/m]	0.124	0.105	0.105	0.105	0.105	0.105	0.052	0.052	0.052	0.026
Average reactance of the protective bar	X _{PE} [mΩ/m]	0.080	0.078	0.078	0.048	0.039	0.028	0.020	0.015	0.016	0.013
Average resistance of the fault loop (PE 1)	R ₀ [mΩ/m]	0.205	0.165	0.165	0.153	0.139	0.132	0.077	0.070	0.066	0.038
Average reactance of the fault loop	X ₀ [mΩ/m]	0.14	0.13	0.13	0.08	0.08	0.06	0.04	0.03	0.03	0.02
Average impedance of the fault loop (PE 1)	Z ₀ [mΩ/m]	0.246	0.209	0.209	0.173	0.159	0.144	0.088	0.077	0.071	0.043
Zero-sequence short-circuit average resistance phase - N	R ₀ [mΩ/m]	0.306	0.257	0.257	0.238	0.172	0.140	0.107	0.080	0.070	0.060
Zero-sequence short-circuit average reactance phase - N	X ₀ [mΩ/m]	0.174	0.160	0.160	0.128	0.106	0.108	0.083	0.073	0.060	0.056
Zero-sequence short-circuit average impedance phase - N	Z ₀ [mΩ/m]	0.352	0.303	0.303	0.270	0.202	0.177	0.135	0.108	0.092	0.082
Zero-sequence short-circuit average resistance phase - PE	R ₀ [mΩ/m]	0.581	0.519	0.519	0.369	0.321	0.270	0.217	0.196	0.164	0.149
Zero-sequence short-circuit average reactance phase - PE	X ₀ [mΩ/m]	0.263	0.229	0.229	0.191	0.175	0.212	0.155	0.148	0.146	0.142
Zero-sequence short-circuit average impedance phase - PE	Z ₀ [mΩ/m]	0.638	0.567	0.567	0.416	0.366	0.343	0.267	0.246	0.220	0.206
Voltage drop with load at the end of the line (b=1) ΔV [V/m/A]10 ⁻⁶	cosφ = 0.70	183.2	147.5	154.6	114.9	98.8	79.4	64.7	48.1	34.5	29.0
	cosφ = 0.75	186.4	149.2	156.8	117.5	99.2	79.6	65.2	48.4	35.2	29.8
	cosφ = 0.80	188.7	150.2	158.3	119.7	99.1	79.5	65.4	48.6	35.7	30.5
	cosφ = 0.85	190.0	150.2	158.8	121.3	98.2	78.7	65.0	48.3	36.0	31.1
	cosφ = 0.90	189.5	148.7	157.8	121.8	96.1	77.0	64.0	47.6	36.1	31.4
	cosφ = 0.95	186.0	144.4	154.0	120.7	92.0	73.6	61.7	45.9	35.5	31.4
	cosφ = 1.00	164.5	124.1	134.2	109.4	75.8	60.4	51.8	38.6	31.7	29.0
Weight (RCP Standard)	p [kg/m]	29.2	35.4	35.4	37.5	46.9	57.6	72.7	91.2	110.3	2x72.7
Weight (PE 1)	p [kg/m]	29.9	36.3	36.3	38.4	47.8	58.5	74.5	93.0	112.1	2x74.5
Fire load	[kWh/m]	4.5	5.5	5.5	6.0	8.5	10.5	16.0	19.0	21.0	22.0
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class		B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*
Losses for the Joule effect at nominal current	P [W/m]	111	135	229	291	331	412	552	674	865	1239
Ambient temperature min/MAX	[°C]	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50

* Class F available on request

General correction factor for amb. temperatures different from 40°C (kt)								
Ambient temperature	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
kt factor	1.15	1.12	1.08	1.05	1.025	1	0.975	0.95



RCP 4P - (3P+N) without earth (standard version)



RCP 4P+PE - (3P+N)+PE1

The product is available in three to five conductor variants and in both copper or aluminium, and can also be supplied with additional conductors for extra earthing requirements:

- 3P / 3P+(PE1)
- 5P / 5P+(PE1)
- 2N / 2N+(PE1)

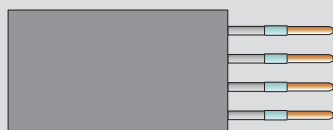
RCP IP68 - 4 conductor version (copper)

		SINGLE BAR						DOUBLE BAR			2 x 2500 DOUBLE BARS
Rated current	I_n [A]	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Overall dimension of the busbars	$L \times H$ [mm]	95x115	95x150	95x150	95x190	95x200	95x240	95x360	95x380	95x460	2x95x360
Overall dimension of the junction	$L \times H$ [mm]	160x180	160x180	160x180	160x220	160x220	160x270	160x430	160x430	160x490	2x160x430
Rated operational voltage	U_n [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	U_i [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequency	f [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/61
Rated short-time current (1 s)	I_{cw} [kA] _{rms}	45	45	45	65	65	80	100	100	100	100
Peak current	I_{pk} [kA]	95	95	95	143	143	176	220	220	220	220
Rated short-time current of the neutral bar (1 s)	I_{cw} [kA] _{rms}	27	27	27	39	39	48	60	60	60	60
Peak current of the neutral bar	I_{pk} [kA]	57	57	57	82	82	101	132	132	132	132
Rated short-time current of the protective circuit (1 s)	I_{cw} [kA] _{rms}	27	27	27	39	39	48	60	60	60	60
Peak current of the protective circuit	I_{pk} [kA]	57	57	57	82	82	101	132	132	132	132
Average phase resistance at 20°C	R_{20} [mΩ/m]	0.040	0.031	0.031	0.023	0.018	0.014	0.011	0.009	0.007	0.006
Average phase reactance	X [mΩ/m]	0.055	0.049	0.049	0.045	0.037	0.030	0.023	0.017	0.010	0.007
Average phase impedance	Z [mΩ/m]	0.068	0.058	0.058	0.050	0.041	0.033	0.026	0.019	0.012	0.009
Average phase resistance at thermal conditions	R [mΩ/m]	0.045	0.037	0.039	0.028	0.023	0.018	0.014	0.012	0.009	0.007
Average phase impedance at thermal conditions	Z [mΩ/m]	0.071	0.061	0.063	0.053	0.044	0.035	0.027	0.021	0.013	0.010
Average neutral resistance	R_{20} [mΩ/m]	0.040	0.031	0.031	0.023	0.018	0.014	0.011	0.009	0.007	0.006
Average resistance of the protective bar (PE 1)	R_{PE} [mΩ/m]	0.124	0.105	0.105	0.105	0.105	0.105	0.052	0.052	0.052	0.026
Average reactance of the protective bar	X_{PE} [mΩ/m]	0.054	0.054	0.054	0.044	0.044	0.032	0.022	0.017	0.016	0.014
Average resistance of the fault loop (PE 1)	R_0 [mΩ/m]	0.163	0.136	0.136	0.127	0.123	0.119	0.064	0.062	0.059	0.032
Average reactance of the fault loop	X_0 [mΩ/m]	0.11	0.10	0.10	0.09	0.08	0.06	0.05	0.03	0.03	0.02
Average impedance of the fault loop (PE 1)	Z_0 [mΩ/m]	0.196	0.170	0.170	0.155	0.148	0.134	0.078	0.070	0.065	0.038
Zero-sequence short-circuit average resistance phase - N	R_0 [mΩ/m]	0.170	0.155	0.155	0.115	0.120	0.098	0.083	0.071	0.062	0.054
Zero-sequence short-circuit average reactance phase - N	X_0 [mΩ/m]	0.159	0.151	0.151	0.114	0.098	0.065	0.056	0.055	0.042	0.038
Zero-sequence short-circuit average impedance phase - N	Z_0 [mΩ/m]	0.233	0.216	0.216	0.162	0.155	0.118	0.100	0.090	0.075	0.066
Zero-sequence short-circuit average resistance phase - PE	R_0 [mΩ/m]	0.507	0.429	0.429	0.331	0.283	0.221	0.177	0.178	0.144	0.132
Zero-sequence short-circuit average reactance phase - PE	X_0 [mΩ/m]	0.201	0.177	0.177	0.143	0.150	0.124	0.111	0.094	0.086	0.075
Zero-sequence short-circuit average impedance phase - PE	Z_0 [mΩ/m]	0.545	0.464	0.464	0.361	0.320	0.253	0.209	0.201	0.168	0.152
Voltage drop with load at the end of the line ΔV [V/m/A]10 ⁻⁶	$\cos\phi = 0,70$	123.4	105.7	108.8	90.7	74.6	59.3	45.4	35.6	23.5	17.9
	$\cos\phi = 0,75$	122.4	104.5	107.8	89.1	73.3	58.2	44.5	35.1	23.3	17.9
	$\cos\phi = 0,80$	120.5	102.5	106.0	86.8	71.4	56.6	43.2	34.4	23.1	17.8
	$\cos\phi = 0,85$	117.4	99.5	103.3	83.6	68.8	54.4	41.5	33.3	22.6	17.6
	$\cos\phi = 0,90$	112.7	95.0	99.0	79.0	65.0	51.2	39.1	31.6	21.8	17.1
	$\cos\phi = 0,95$	104.9	87.7	92.0	71.9	59.2	46.4	35.4	29.0	20.4	16.3
	$\cos\phi = 1,00$	79.1	64.4	68.9	50.1	41.2	31.8	24.2	20.9	15.8	13.1
Weight (RCP Standard)	p [kg/m]	41.1	50.4	50.4	65.1	71.4	89.0	127.0	141.0	173.6	2x127
Weight (PE 1)	p [kg/m]	41.9	51.3	51.3	66.0	72.3	89.9	128.8	142.8	175.4	2x128.8
Fire load	[kWh/m]	4.5	5.5	5.5	8.0	8.2	10.5	16.0	19.0	21.0	24.0
Degree of protection	IP	68	68	68	68	68	68	68	68	68	68
Insulation material thermal resistance class		B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*	B/F*
Losses for the Joule effect at nominal current	P [W/m]	86	110	184	219	281	339	422	570	675	890
Ambient temperature min/MAX	[°C]	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50	-40/+50

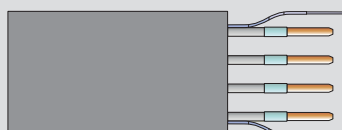
* Class F available on request

General correction factor for amb. temperatures different from 40°C (kt)

Ambient temperature	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
kt factor	1.15	1.12	1.08	1.05	1.025	1	0.975	0.95



RCP 4P - (3P+N) without earth (standard version)



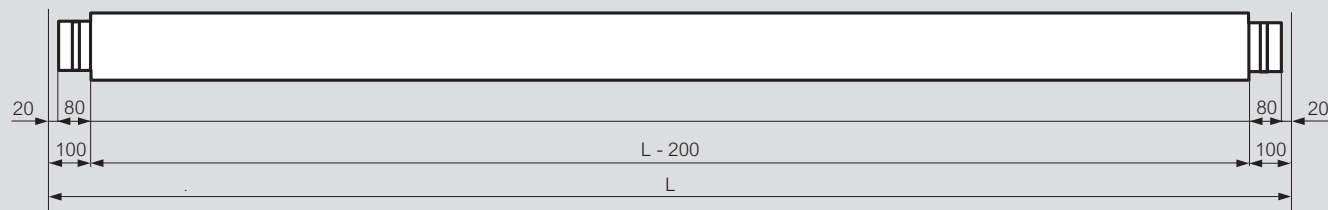
RCP 4P+PE - (3P+N)+PE1

The product is available in three to five conductor variants and in both copper or aluminium, and can also be supplied with additional conductors for extra earthing requirements:

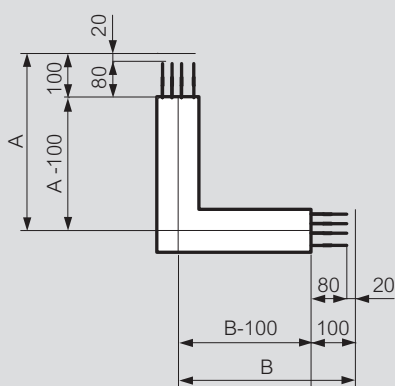
- 3P / 3P+ (PE1)
- 5P / 5P+ (PE1)
- 2N / 2N+ (PE1)

DIMENSIONAL DATA

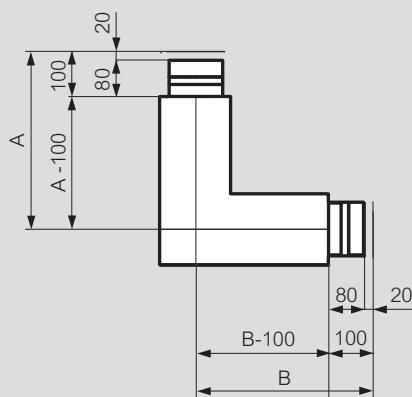
STRAIGHT LENGTH



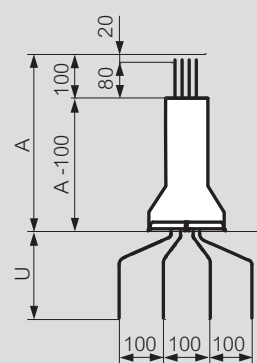
HORIZONTAL ELBOW



VERTICAL ELBOW

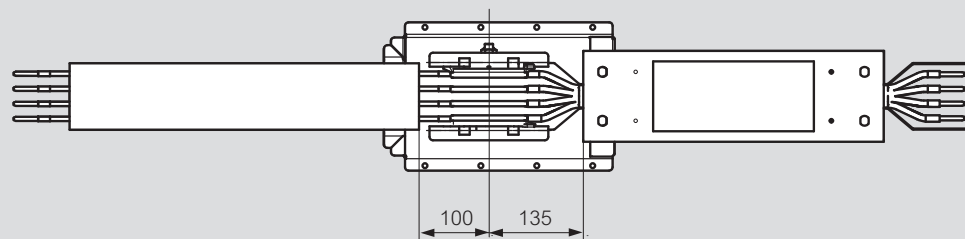
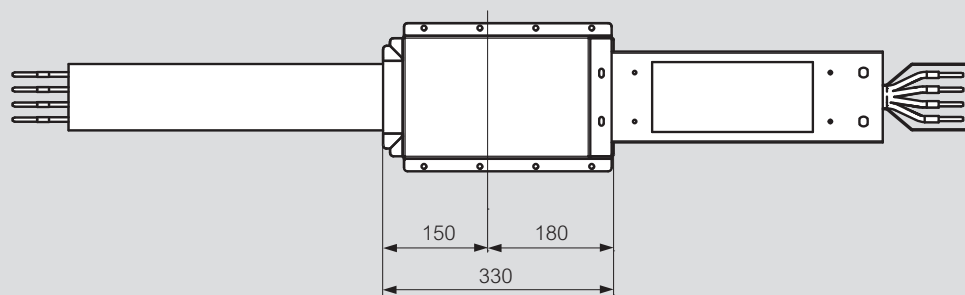


CONNECTION INTERFACE



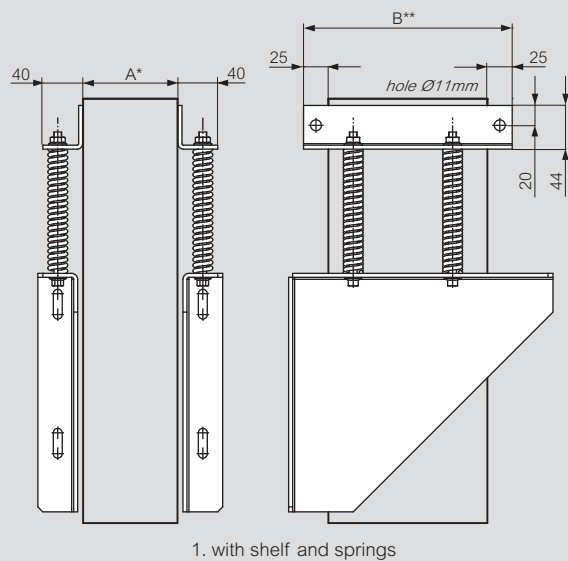
COVER JUNCTION IP68-IP55

Note : cover junction guarantees an IP55 degree of protection

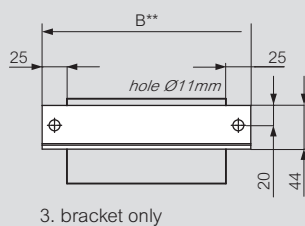
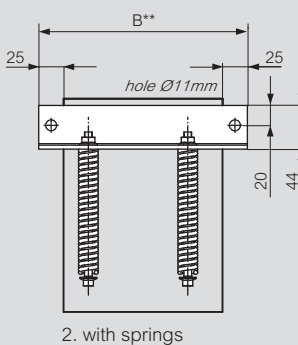


DIMENSIONAL DATA

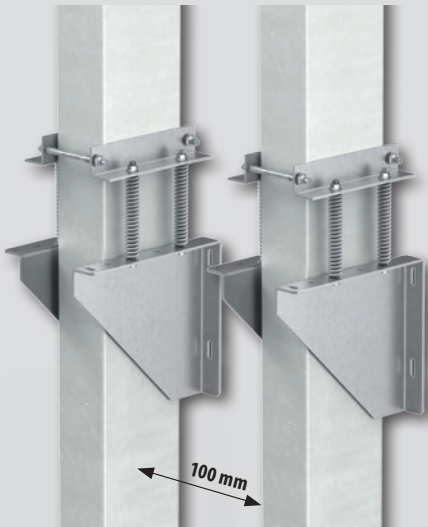
■ VERTICAL SUSPENSION BRACKET



A*: Depending on the quantity of conductors requested
B**: Depending on the busbar rating



MATERIAL	RATING (A)	QUANTITY OF SPRINGS	WEIGHT HOLDING CAPACITY (KG)
AL	630	4	300
	800	4	300
	1000	4	300
	1250	4	300
	1600	6	300
	2000	8	600
	2500	8	600
	3200	12	600
	4000	12	600
CU	800	4	300
	1000	4	300
	1250	4	300
	1600	6	300
	2000	6	300
	2500	8	600
	3200	8	600
	4000	12	600
	5000	12	600



For 5000 A (Al) and 6300 A (Cu), please consider the following:

The picture above demonstrates how to formulate vertical runs of 5000 A (Al) and 6300 A (Cu) busbar
A distance of 100 mm should be maintained between two busbar runs

- Necessary brackets
RCP 5000 A (Al) = use 2 x 2500 A (Al) brackets
RCP 6300 A (Cu) = use 2 x 3200 A (Cu) brackets

TABLE OF CHEMICAL RESISTANCE OF RCP RESIN

Chemical	Resistance
Boric Acid	(+)
10% Hydrochloric Acid	(-)
Citric Acid	(+)
Lactic Acid	(+)
Ethyl Alcohol	(0)
Beer	(+)
Acetone	(-)
Calcium Chloride	(+)
Combustible Liquid	(+)
Water	(+)
Esters	(+) / (0)
Ethers	(-)
Formalin 30%-40%	(+)
Glycerol	(+)
Greases and Lubricating Oils	(+)
Greases and Oils	(+)
Vegetable Oils	(+)
Aliphatic Hydrocarbons	(+)
Aromatic Hydrocarbons	(-)
Carbon Tetrachloride	(-)
Ammonia	(+)
Milk	(+)
10% Sodium Hydroxide	(+)
Soap	(+)
Sugar	(+)
Urine	(+)

SPECIFIC TEST OF PROLONGED IMMERSION IN DIFFERENT CHEMICAL AGENTS AT AMBIENT TEMPERATURE

Chemical agent	After 15 days	After 30 days
10% Solution Hydrochloric Acid	(-)	(-)
10% Solution NaOH	(+)	(+) / (0)
Gasoline	(+)	(+)
Fuel (Diesel)	(+)	(+)
Antifreeze	(+) / (0)	(+) / (0)
DBE (Di Basic Esther)	(0)	(0) / (-)

(+) - Cast Resin is resistant to the chemical agent

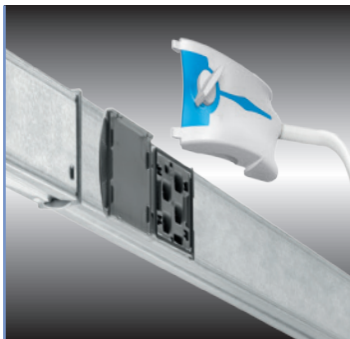
(0) - Cast Resin is partially resistant to the chemical agent

(-) - Cast Resin is not resistant to the chemical agent

ZUCCHINI... the specialist in busbar and transformers

The Zucchini range of prefabricated busbars is one of the most comprehensive on the market, ranging from 25 A lighting through to 6300 A high power systems. Zucchini busbar is widely used for power distribution in both industrial and commercial applications.

Its modular construction and wide variety of busbar accessories allow an infinite number of trunking combinations, providing a versatile and flexible technical solution to any layout.



LB PLUS - LOW POWER BUSBAR SYSTEM

LB PLUS is the new range of Zucchini busbars for electrical distribution within low power applications.

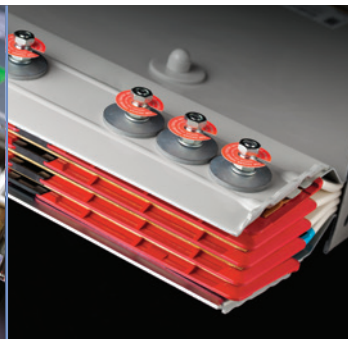
It offers simplicity, high performance and easy installation and can meet all lighting and power demands from 25 A to 63 A.



MEDIUM POWER BUSBAR SYSTEMS

Zucchini medium power busbars offer speed, simplicity and flexibility during planning and installation.

MS is ideal for commercial and industrial applications from 63 A to 160 A and MR offers the perfect solution for rising mains up to 1000 A.



SCP - HIGH POWER BUSBAR SYSTEM

SCP is the Zucchini busbar range used for the transport and distribution of high power.

Ranging from 630 A to 6300 A the dimensions of super compact and its 'sandwich' construction enhance resistance to short circuit stresses.



CAST RESIN TRANSFORMERS

Legrand also offers a wide range of high quality, EU regulation cast resin transformers from 160 kVA up to 16 mVA.

This comprehensive range is further enhanced by technical expertise and the ability to create bespoke solutions.



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