

Spec-Kon®

Lugs and links

Thomas & Betts (today a Member of the ABB Group) developed the first tool-applied solderless terminals and connectors more than 60 years ago in response to industry awareness of the need for better performance of electrical systems. Today, our Spec-Kon lugs and links are renowned for higher quality, delivering easy installation and reliable connections.

The quality of this humble component is often compromised on, and the resultant crimp can become the source of an electrical fault leading to potential hazards and costly downtime. A reliable crimp is the product of using the right combination of lug, die, tool and technique. This helps to avoid electrical failures associated with over-crimping (winging) or under-crimping (lack of distinct hex edges). A good crimp forms the lug and conductor into a solid,

homogenous mass to provide an optimum electrical bond. One sign of a good crimp is the achievement of accurate A/F (across the flats) measurement after the crimp to match the recommendations in the product selection chart. This is usually done using Vernier callipers. Some lugs must be crimped more than once. In this case, always execute the first crimp starting from the palm end of the barrel as barrel lengthening (cold flow) will occur.



Easy to select

- Lugs and links available for various applications
- Can accommodate conductors 1.5mm² to 1000mm²
- Customisation service available



Easy to crimp

- Ergonomic and reliable crimping tools and dies available
- Lugs also compatible with dies and tools from other recognised Australian suppliers
- Annealed barrel for optimum compression



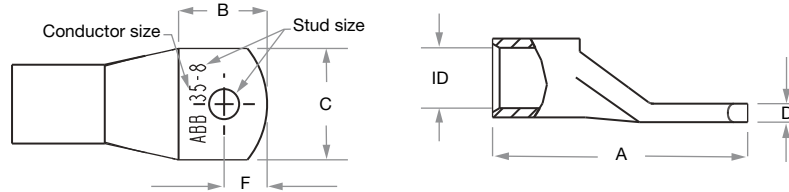
Easy to trust

- Australian Standards AS/NZS4325-1 and AS/NZS 4437 conformant
- International Standards IEC61238 and IEC60352 conformant
- UL 486 Standard compliant
- Highly conductive 99.9% Pure IACS Copper
- Corrosion resistant Tin plating

Spec-Kon® Copper standard lugs



Spec-Kon CZ lugs are made from over 99.95% pure, high conductivity Copper as per the International Annealed Copper Standard. They are also Tin plated for protection against corrosion. They are rated for voltage up to 30kV suitable for use with stranded (class 2) and flexible (class 5) power cables according to AS/NZS 1125 and IEC 60228. The barrel diameters and thicknesses are in accordance with the Australian Barrel Scheme. This allows the lugs to be crimped accurately with equivalent dies and tools offered by recognized Australian suppliers.



Cat number	Wire size (mm ²)	Stud size	ID	A	B	C	D	F	Quantity per box	Tooling	A/F	
CZL1.5-4	1.5	M4	1.8	18	9	8	1	4	100	ERG9000		
CZL1.5-5		M5	1.8	18	9	8	1	4	100			
CZL1.5-6		M6	1.8	19	10	10	0.8	4	100			
CZL2.5-4	2.5	M4	2.4	19	9	8	1	4	100			
CZL2.5-5		M5	2.4	21	11	10	0.8	5	100			
CZL2.5-6		M6	2.4	21	11	10	0.8	5	100			
CZL2.5-8		M8	2.4	24	15	12	0.6	6	100			
CZL4-5	4	M5	3.1	22	11	10	1	5	100			
CZL4-6		M6	3.1	22	11	10	1	5	100			
CZL4-8		M8	3.1	27	15	12	0.88	6	100			
CZL4-10		M10	3.1	32	19	15	0.7	8	100			
CZL6-4	6	M4	3.1	23	11	10	1.24	5	100		TBM6120AU	4.4
CZL6-5		M5	3.8	23	11	10	1.24	5	100			4.4
CZL6-6		M6	3.8	27	15	12	1	6	100			4.4
CZL6-8		M8	3.8	27	15	12	1	6	100			4.4
CZL6-10		M10	3.8	32	19	15	1	8	100			4.4
CZL10-5	10	M5	4.7	27	13	12	1.8	6	100		TBM58AU	5.7
CZL10-6		M6	4.7	27	13	12	1.8	6	100			5.7
CZL10-8		M8	4.7	29	15	14	1.6	7	100			5.7
CZL10-10		M10	4.7	32	18	15	1.5	8	100			5.7
CZL10-12		M12	4.7	38	23	18	1	10	100			5.7
CZL16-6	16	M6	5.5	39	16	11	2.4	7	50			6.3
CZL16-8		M8	5.5	39	16	14	1.7	7	50			6.3
CZL16-10		M10	5.5	41	18	16	1.5	8	50			6.3
CZL16-12		M12	5.5	46	23	18	1.4	10	50			6.3
CZL25-6	25	M6	7.1	41	16	13.5	2.4	7	50			7.7
CZL25-8		M8	7.1	41	16	13.5	2.4	7	50			7.7
CZL25-10		M10	7.1	44	19	16	1.96	9	50			7.7
CZL25-12		M12	7.1	48	23	18	1.74	10	50			7.7
CZL35-6	35	M6	8.4	45	19	16	3	9	50			9.2
CZL35-8		M8	8.4	45	19	16	3	9	50	9.2		
CZL35-10		M10	8.4	45	19	18	2.6	9	50	9.2		
CZL35-12		M12	8.4	51	24	20	2.42	11	50	9.2		

Spec-Kon®

Copper standard lugs

Cat number	Wire size (mm²)	Stud size	ID	A	B	C	D	F	Quantity per box	Tooling	A/F			
CZL50-6	50	M6	9.5	46	18	18	3.2	8	50	TBM6120AU	10.4			
CZL50-8		M8	9.5	46	18	18	3.2	8	50		10.4			
CZL50-10		M10	9.5	46	18	18	3.2	8	50		10.4			
CZL50-12		M12	9.5	52	24	21	2.7	11	50		10.4			
CZL70-6	70	M6	11.3	54	24	21	3.2	11	25		TBM6120AU	11.5		
CZL70-8		M8	11.3	54	24	21	3.2	11	25			11.5		
CZL70-10		M10	11.3	54	24	21	3.2	11	25			11.5		
CZL70-12		M12	11.3	54	24	21	3.2	11	25			11.5		
CZL70-14		M15	11.3	54	24	21	3.2	11	25			11.5		
CZL70-16		M16	11.3	61	27	26	3	13	25			11.5		
CZL95-8	95	M8	13.5	60	26	25	3.8	12	25			TBM6120AU	14.2	
CZL95-10		M10	13.5	60	26	25	3.8	12	25				14.2	
CZL95-12		M12	13.5	60	26	25	3.8	12	25	14.2				
CZL95-14		M14	13.5	60	26	25	3.8	12	25	14.2				
CZL95-16		M16	13.5	64	30	25	3.8	14	25	14.2				
CZL120-8	120	M8	15.6	64	26	30	4.7	12	25	TBM6120AU			16.5	
CZL120-10		M10	15.6	64	26	30	4.7	12	25		16.5			
CZL120-12		M12	15.6	64	26	30	4.7	12	25		16.5			
CZL120-14		M14	15.6	64	26	30	4.7	12	25		16.5			
CZL120-16		M16	15.6	70	32	30	4.7	16	25		16.5			
CZL150-10		150	M10	16.7	71	32	32	5.25	16		20		TBM6120AU	18.3
CZL150-12	M12		16.7	75	36	32	5.25	18	20		18.3			
CZL150-14	M14		16.7	75	36	32	5.25	18	20		18.3			
CZL150-16	M16		16.7	75	36	32	5.25	18	20		18.3			
CZL185-10	185	M10	18.4	74	32	36	5.39	16	20		TBM6120AU	20.0		
CZL185-12		M12	18.4	79	36	36	5.39	18	20			20.0		
CZL185-16		M16	18.4	79	36	36	5.39	18	20			20.0		
CZL240-10	240	M10	21.2	98	42	41	7	21	1	TBM6120AU		23.1		
CZL240-12		M12	21.2	98	42	41	7	21	1			23.1		
CZL240-16		M16	21.2	98	42	41	7	21	1			23.1		
CZL300-12	300	M12	23.8	101	46	46	7.7	23	1			TBM6120AU		26.0
CZL300-14		M14	23.8	101	46	46	7.7	23	1					26.0
CZL300-16		M16	23.8	101	46	46	7.7	23	1				26.0	
CZL400-BL	400	Blank	26.8	114	52	50	7.9	24	1				TBM6120AU	28.1
CZL500-BL	500	Blank	30.0	119	54	56	7.6	27	1					31.0
CZL630-BL	630	Blank	34.0	139	64	64.4	9.5	32	1					37.0
CZL800-BL	800	Blank	39.3	275	125	74	14	62.5	1		43.2			
CZL1000-BL	1000	Blank	44.0	295	125	84.6	16	62.5	1		48.0			



- For 90 degree palm to barrel angled variant please add suffix 'RA' after catalogue number. Example CZL35-10RA
- For 45 degree palm to barrel angled variant please add suffix 'HRA' after catalogue number. Example CZL70-10HRA
- Blank lugs CZL400-BL and above can also be punched as per your specification. Please contact our sales office