



Utility Product Catalogue

Edition 4.3

www.electricalconnections.co.nz





Welcome to the fourth edition of our Utility Products Catalogue!

For over 25 years, Electrical Connections has proudly served New Zealand's electrical industry with a steadfast commitment to quality and reliability. As a family-owned business, we value our legacy of excellence, rooted in integrity and our dedication to providing high-quality products and services.

This catalogue offers a comprehensive selection of solutions tailored for utility providers and contractors, featuring trusted products from world-renowned global manufacturers and our own in-house manufacture. From insulators and surge arrestors to terminations and line hardware, every item reflects our commitment to performance and safety, supporting the essential work utilities do to power our communities.

At Electrical Connections, we carefully select each product to ensure it meets the highest standards, whether for major infrastructure projects or routine maintenance. Our goal is to help you work safely and effectively, with solutions you can trust.

As we look ahead, we remain dedicated to the values that have guided us for decades. With extensive industry experience, unparalleled expertise, and a commitment to exceptional service, Electrical Connections is here to support your success.

Thank you for choosing Electrical Connections. We look forward to serving you and exceeding your expectations every step of the way.

Kind Regards,

Richard Malcolm
Managing Director

Connecting and Supporting Energy!

Our Vision

To be Australasia's supplier of choice for utility infrastructure solutions by delivering reliable, high-performance products with seamless service and support.

OUR COMMITMENT

- You can trust us – to do what we say.
- We care – for people and the environment.
- We communicate – with you, our staff and our suppliers.
- We listen – to you.
- Always striving – for the best quality, service and product knowledge.

QUALITY

At ECL, quality is not just a goal; it's our standard. We adhere strictly to industry benchmarks and certifications to ensure our products consistently meet or exceed expectations. Our commitment to quality is unwavering, driving us to deliver reliable, safe, and innovative solutions to our customers.

Connecting and Supporting Energy!

Electrical Connections Ltd has a policy of continual developments of their products and reserve the right to change specifications formats and size without notice. While all due care has been taken in preparing this catalogue possible typographic errors may have occurred, Electrical Connections takes no responsibility for this. All products sold are subject to Electrical Connections Ltd standard terms and conditions of sale. Customers and users should ensure that they have evaluated the product as suitable for the various applications. This catalogue does not constitute an assurance of any particular quality or product performance.
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The ECL Advantage

We are here to make your life easier. Access to industry leading products, expertise and responsive service saves you time, money and hassle.



FIRST IN CUSTOMER SERVICE

At ECL, the customer is always our top priority. Our dedicated team is always ready to assist you with any enquiry, ensuring that your experience with us is smooth and hassle free from start to finish.



GLOBAL SOURCING & SUPPLY

With a vast network of trusted suppliers and key agencies from around the world, ECL provides high quality products at competitive prices, ensuring timely delivery and reliability with every order.



CUSTOM DESIGN & MANUFACTURE

We understand that every project is unique. That's why we offer bespoke design and manufacturing services to meet your specific needs. Our experienced technical support team work closely with you to create tailored solutions that perfectly fit your requirements, ensuring precision in every product.



EXPRESS DELIVERY

Time is of the essence, and we get that. Our express delivery service ensures that your orders reach you as quickly as possible.

Whether it's a last-minute request or a scheduled shipment, our dedicated team ensure your product is produced with minimal turnaround time.



Ready to order

Quality termination and connection fittings

We offer cable connection products and accessories. Proven over many decades of use, our products have been tried and tested by customers across Australasia.

In-house testing facility

Testing to industry standards

Electrical Connections has its own in house testing laboratory. The high current test facility allows heat cycle testing to AS/NZS and IEC Standards.

Our mechanical testing rig tension tests cable terminations to ensure it meets AS/NZS and IEC Standards.

Connection products for:

-  Switchgear
-  Transmission & Distribution
-  Control & Automation
-  Utility, Commercial, Industrial









Electrical Connections

New Zealand Distributors of





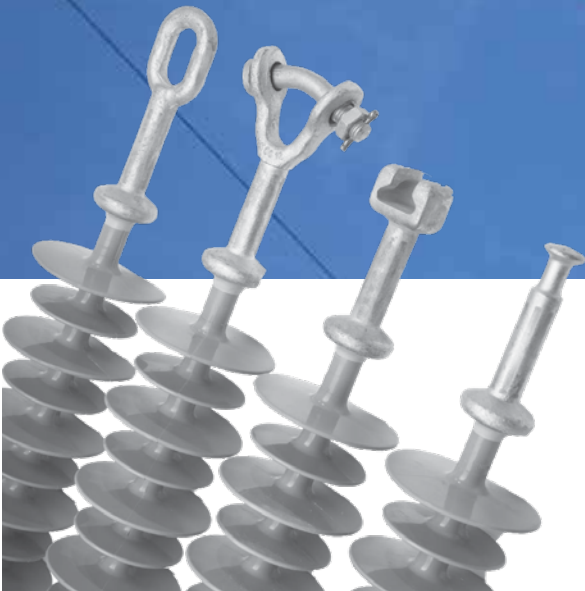
Powering New Zealand with Proven Global Expertise

Exclusive Partnership with MacLean Power Systems

For over a century, MacLean Power Systems (MPS) has been a global leader in providing innovative utility solutions. As the exclusive New Zealand distributor, Electrical Connections brings MPS's trusted range of utility products directly to local networks, offering unmatched quality and reliability.

- **World-Class Products:** A comprehensive range, including crossarms, insulators, pole line hardware, arrestors, and more.
- **Engineered for Performance:** Designed for durability and safety in challenging environments.
- **Global Expertise, Local Support:** Backed by MacLean's legacy and Electrical Connections' commitment to exceptional customer service.





Strain Insulators



Glass Insulators



Hardware



Post Insulators



Crossarms

“MacLean Power Systems is proud to partner with Electrical Connections, ensuring New Zealand’s utility providers have access to the most trusted global solutions in the industry!”

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TOOLING PRODUCTS

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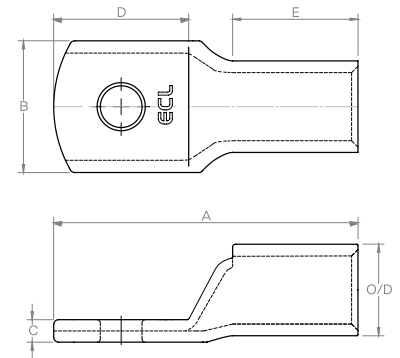
Copper Lugs and Links

Copper Standard Crimp Lugs

Manufactured from 99.9% oxygen free, high conductivity copper and electro tinned.

Trusted by New Zealand Utilities for over 30 years.

Conformant Standard: AS/NZS 4325.1:1995



SPECIFICATIONS

Part No.	Cable Size	Stud Size mm	Dimensions mm						Crimp Die Info	
			A	B	C	D	E	O/D	A/F mm	Die Part number
ECL1.5-4	1.5mm ²	4	18.5	8	1	9	7.5	4		Indent Tooling
ECL1.5-5		5	18.5	8	1	9	7.5	4		
ECL1.5-6		6	19.5	10	0.8	10	7.5	4		
ECL2.5-4	2.5mm ²	4	19	8	1	9	8	4		Indent Tooling
ECL2.5-5		5	20	10	0.8	11	8	4		
ECL2.5-6		6	20	10	0.8	11	8	4		
ECL2.5-8		8	26	11	0.7	15	8	4		
ECL4-4	4mm ²	4	22	10	1	11	9	5.2		Indent Tooling
ECL4-5		5	22	10	1	11	9	5.2		
ECL4-6		6	22	10	1	11	9	5.2		
ECL4-8		8	26	12	0.8	15	9	5.2		
ECL4-10		10	32	15	0.8	17	9	5.2		
ECL6-4	6mm ²	4	23	10	1.2	11	10	5.5		Indent Tooling
ECL6-5		5	23	10	1.2	11	10	5.5		
ECL6-6		6	27	12	1	15	10	5.5		
ECL6-8		8	27	12	1	15	10	5.5		
ECL6-10		10	32	15	0.8	19	10	6.2		
ECL6-12		12	35	17	1	21	11	6.2		
ECL10-5	10mm ²	5	27	12	1.8	13	10	7.1	5.7	D10CU (12T Crimp)
ECL10-6		6	27	12	1.8	13	10	7.1		
ECL10-8		8	29	14	1.6	15	10	7.1		
ECL10-10		10	32	15	1.5	18	10	7.1		
ECL10-12		12	38	18	1	22	10	7.1		
ECL10-16		16	54	23	3	27	20	9		
ECL16-4	16mm ²	4	39	11	2.4	16	19	7.9	6.3	D16CU (12T Crimp)
ECL16-5		5	39	11	2.4	16	19	7.9		
ECL16-6		6	39	11	2.4	16	19	7.9		
ECL16-8		8	39	14	1.7	16	19	7.9		
ECL16-10		10	41	16	1.5	18	19	7.9		
ECL16-12		12	46	18	1.2	23	19	7.9		
ECL16-16		16	53	23	3	28	20	9.5		
ECL25-6	25mm ²	6	41	13.5	2.4	16	21	9.5	7.7	D25CU (12T Crimp)
ECL25-8		8	41	13.5	2.4	16	21	9.5		
ECL25-10		10	44	16	1.9	19	21	9.5		
ECL25-12		12	48	18	1.6	23	21	9.5		
ECL25-16		16	55	27	1.6	28	21	10.5		
ECL35-6	35mm ²	6	45	16	3	19	21	11.5	9.2	D35CU (12T Crimp)
ECL35-8		8	45	16	3	19	21	11.5		
ECL35-10		10	45	18	2.6	19	21	11.5		
ECL35-12		12	51	20	2.2	24	22	11.5		
ECL35-16		16	61	22	2.25	32	23	11.6		
ECL50-6	50mm ²	6	46	18	3.3	18	22	12.8	10.4	D50CU (12T Crimp)
ECL50-8		8	46	18	3.3	18	22	12.8		
ECL50-10		10	46	18	3.3	18	22	12.8		
ECL50-12		12	52	21	2.7	24	22	12.8		
ECL50-16		16	58	23	2.7	30	22	13		

Part No.	Cable Size	Stud Size mm	Dimensions mm						Crimp Die Info			
			A	B	C	D	E	O/D	A/F mm	Die Part number		
ECL70-6	70mm ²	6	54	21	3.5	24	24	14.6	11.5	D70CU (12T Crimp)		
ECL70-8		8	54	21	3.5	24	24	14.6				
ECL70-10		10	54	21	3.5	24	24	14.6				
ECL70-12		12	54	21	3.5	24	24	14.6				
ECL70-16		16	61	26	3	30	24	14.6				
ECL95-6	95mm ²	6	60	25	4	26	27	17.4	14.2	D95CU (12T Crimp)		
ECL95-8		8	60	25	4	26	27	17.4				
ECL95-10		10	60	25	4	26	27	17.4				
ECL95-12		12	60	25	4	26	27	17.4				
ECL95-16		16	61	28	3.5	30	27	17.4				
ECL120-6	120mm ²	6	64	30	5	26	30	20.6	16.5	D120CU (12T Crimp)		
ECL120-8		8	64	30	5	26	30	20.6				
ECL120-10		10	64	30	5	26	30	20.6				
ECL120-12		12	64	30	5	26	30	20.6				
ECL120-16		16	72	30	5	32	30	20.6				
ECL120-20		20	74	30	5	34	30	20.6				
ECL120B		blank	65	30	5	26	30	20.6				
ECL150-6	150mm ²	6	75	32	5.8	32	30	22.2	18.3	D150CU (12T Crimp)		
ECL150-8		8	75	32	5.8	32	30	22.2				
ECL150-10		10	75	32	5.8	32	30	22.2				
ECL150-12		12	75	32	5.8	36	30	22.2				
ECL150-16		16	75	32	5.8	36	30	22.2				
ECL150-20		20	75	32	5.8	36	30	22.2				
ECL150B		blank	75	32	5.8	36	30	22.2				
ECL185-8	185mm ²	8	74	36	5.8	32	32	24.2	20.0	D185CU (12T Crimp)		
ECL185-10		10	74	36	5.8	32	32	24.2				
ECL185-12		12	74	36	5.8	36	32	24.2				
ECL185-16		16	79	36	5.8	36	32	24.2				
ECL185-20		20	79	38	5.8	41	32	24.2				
ECL185B		blank	79	38	5.8	41	32	24.2				
ECL240-8	240mm ²	8	92	41	7	42	38	28.5	23.1	D240CU (12T Crimp) DCL240 (30T Crimp)		
ECL240-10		10	92	41	7	42	38	28.5				
ECL240-12		12	92	41	7	42	38	28.5				
ECL240-16		16	92	41	7	42	38	28.5				
ECL240-20		20	92	41	7	42	38	28.5				
ECL240B		blank	92	41	7	42	38	28.5				
ECL300-8	300mm ²	8	101	46	7.8	46	42	31.9	26.0	D300CU (12T Crimp) DCL300 (30T Crimp)		
ECL300-10		10	101	46	7.8	46	42	31.9				
ECL300-12		12	101	46	7.8	46	42	31.9				
ECL300-16		16	101	46	7.8	46	42	31.9				
ECL300-20		20	101	46	7.8	46	42	31.9				
ECL300B		blank	101	46	7.8	46	42	31.9				
ECL400-8	400mm ²	8	107	50	8	48	44	34.9	28.1	D400CU (12T Crimp) DCL400 (30T Crimp)		
ECL400-10		10	107	50	8	48	44	34.9				
ECL400-12		12	107	50	8	48	44	34.9				
ECL400-16		16	107	50	8	48	44	34.9				
ECL400-20		20	107	50	8	48	44	34.9				
ECL400B		blank	107	50	8	48	44	34.9				
ECL500-10	500mm ²	10	119	56	9	55	50	38.1	31.0	DCL500 (30T Crimp)		
ECL500-12		12	119	56	9	55	50	38.1				
ECL500-16		16	119	56	9	55	50	38.1				
ECL500-20		20	119	56	9	55	50	38.1				
ECL500B		blank	119	56	9	55	50	38.1				
ECL630-10	630mm ²	10	139	64.4	11	64	58	44	37.0	DCL630 (30T Crimp)		
ECL630-12		12	139	64.4	11	64	58	44				
ECL630-16		16	139	64.4	11	64	58	44				
ECL630-20		20	139	64.4	11	64	58	44				
ECL630B		blank	139	64.4	11	64	58	44				
ECL800B	800mm ²	Available on request. Please contact the ECL team.										
ECL1000B	1,000mm ²	Available on request. Please contact the ECL team.										

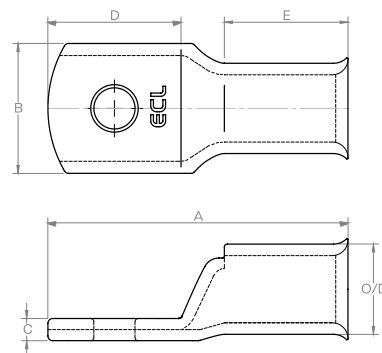
- Dimensions may vary slightly.
- For special lugs or other imperial sizes please contact the ECL sales department.

Copper Bellmouth Lugs (fine stranded cables)

Makes the termination process easy for fine-stranded flexible cables. The enlarged cable entry of the bellmouth is designed to address the tendency of flexible cables to splay upon stripping, providing ease of entry for fine stranded cable.



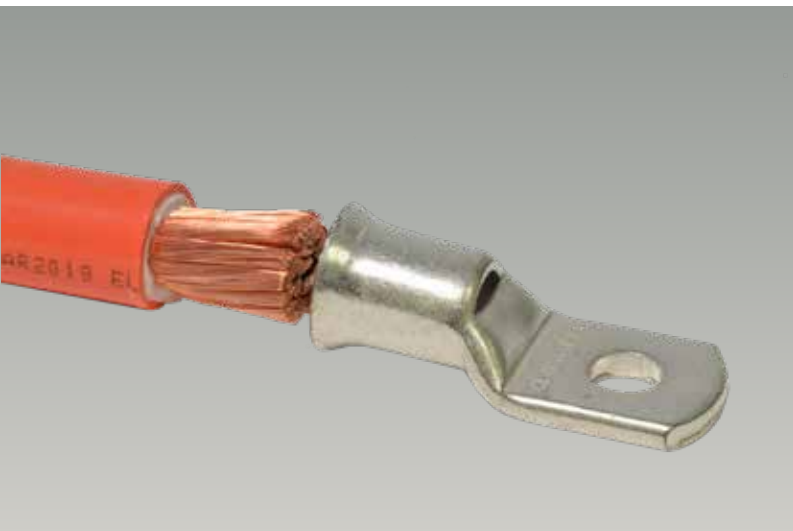
SPECIFICATIONS



Conformant Standard: AS/NZS 4325.1:1995

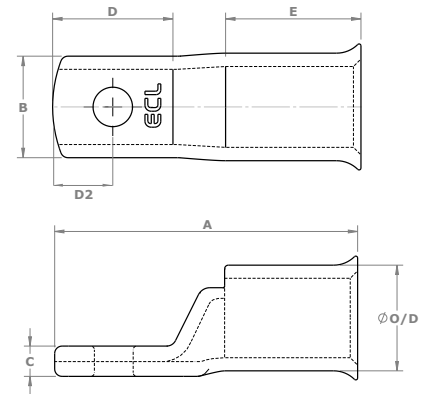
Part No.	Cable Size	Stud Size mm	Dimensions mm						Crimp Die Info	
			A	B	C	D	E	O/D	A/F mm	Die Part number
ECL6-6BM	6mm ²	6	27	12	1	15	10	5.5		Indent Tooling
ECL6-8BM		8	27	12	1	15	10	5.5		
ECL6-10BM		10	32	15	0.8	19	10	6.2		
ECL6-12BM		12	35	17	1	21	11	6.2		
ECL10-5BM	10mm ²	5	27	12	1.8	13	10	7.1	5.7	D10CU (12T Crimp)
ECL10-6BM		6	27	12	1.8	13	10	7.1		
ECL10-8BM		8	29	14	1.6	15	10	7.1		
ECL10-10BM		10	32	15	1.5	18	10	7.1		
ECL10-12BM		12	38	18	1	22	10	7.1		
ECL16-6BM	16mm ²	6	39	11	2.4	16	19	7.9	6.3	D16CU (12T Crimp)
ECL16-8BM		8	39	14	1.7	16	19	7.9		
ECL16-10BM		10	41	16	1.5	18	19	7.9		
ECL16-12BM		12	46	18	1.2	23	19	7.9		
ECL25-6BM	25mm ²	6	41	13.5	2.4	16	21	9.5	7.7	D25CU (12T Crimp)
ECL25-8BM		8	41	13.5	2.4	16	21	9.5		
ECL25-10BM		10	44	16	1.9	19	21	9.5		
ECL25-12BM		12	48	18	1.6	23	21	9.5		
ECL35-6BM	35mm ²	6	45	16	3	19	21	11.5	9.2	D35CU (12T Crimp)
ECL35-8BM		8	45	16	3	19	21	11.5		
ECL35-10BM		10	45	18	2.6	19	21	11.5		
ECL35-12BM		12	51	20	2.2	24	22	11.5		
ECL50-6BM	50mm ²	6	46	18	3.3	18	22	12.8	10.4	D50CU (12T Crimp)
ECL50-8BM		8	46	18	3.3	18	22	12.8		
ECL50-10BM		10	46	18	3.3	18	22	12.8		
ECL50-12BM		12	52	21	2.7	24	22	12.8		
ECL50-16BM		16	58	23	2.7	30	22	13		
ECL70-6BM	70mm ²	6	54	21	3.5	24	24	14.6	11.5	D70CU (12T Crimp)
ECL70-8BM		8	54	21	3.5	24	24	14.6		
ECL70-10BM		10	54	21	3.5	24	24	14.6		
ECL70-12BM		12	54	21	3.5	24	24	14.6		
ECL70-16BM		16	61	26	3	30	24	14.6		
ECL95-6BM	95mm ²	6	60	25	4	26	27	17.4	14.2	D95CU (12T Crimp)
ECL95-8BM		8	60	25	4	26	27	17.4		
ECL95-10BM		10	60	25	4	26	27	17.4		
ECL95-12BM		12	60	25	4	26	27	17.4		
ECL95-16BM		16	61	28	3.5	30	27	17.4		
ECL120-8BM	120mm ²	8	64	30	5	26	30	20.6	16.5	D120CU (12T Crimp)
ECL120-10BM		10	64	30	5	26	30	20.6		
ECL120-12BM		12	64	30	5	26	30	20.6		
ECL120-16BM		16	72	30	5	32	30	20.6		
ECL120-20BM		20	74	30	5	34	30	20.6		
ECL120B-BM		blank	65	30	5	26	30	20.6		

Dimensions mm									Crimp Die Info	
Part No.	Cable Size	Stud Size mm	A	B	C	D	E	O/D	A/F mm	Die Part number
ECL150-6BM	150mm²	6	75	32	5.8	32	30	22.2	18.3	D150CU (12T Crimp)
ECL150-8BM		8	75	32	5.8	32	30	22.2		
ECL150-10BM		10	75	32	5.8	32	30	22.2		
ECL150-12BM		12	75	32	5.8	36	30	22.2		
ECL150-16BM		16	75	32	5.8	36	30	22.2		
ECL150-20BM		20	75	32	5.8	36	30	22.2		
ECL150B-BM		blank	75	32	5.8	36	30	22.2		
ECL185-8BM	185mm²	8	74	36	5.8	32	32	24.2	20.0	D185CU (12T Crimp)
ECL185-10BM		10	74	36	5.8	32	32	24.2		
ECL185-12BM		12	74	36	5.8	36	32	24.2		
ECL185-16BM		16	79	36	5.8	36	32	24.2		
ECL185-20BM		20	79	38	5.8	41	32	24.2		
ECL185B-BM		blank	79	38	5.8	41	32	24.2		
ECL240-8BM	240mm²	8	92	41	7	42	38	28.5	23.1	D240CU (12T Crimp) DCL240 (30T Crimp)
ECL240-10BM		10	92	41	7	42	38	28.5		
ECL240-12BM		12	92	41	7	42	38	28.5		
ECL240-16BM		16	92	41	7	42	38	28.5		
ECL240-20BM		20	92	41	7	42	38	28.5		
ECL240B-BM		blank	92	41	7	42	38	28.5		
ECL300-8BM	300mm²	8	101	46	7.8	46	42	31.9	26.0	D300CU (12T Crimp) DCL300 (30T Crimp)
ECL300-10BM		10	101	46	7.8	46	42	31.9		
ECL300-12BM		12	101	46	7.8	46	42	31.9		
ECL300-16BM		16	101	46	7.8	46	42	31.9		
ECL300-20BM		20	101	46	7.8	46	42	31.9		
ECL300B-BM		blank	101	46	7.8	46	42	31.9		
ECL400-8BM	400mm²	8	107	50	8	48	44	34.9	28.1	D400CU (12T Crimp) DCL400 (30T Crimp)
ECL400-10BM		10	107	50	8	48	44	34.9		
ECL400-12BM		12	107	50	8	48	44	34.9		
ECL400-16BM		16	107	50	8	48	44	34.9		
ECL400-20BM		20	107	50	8	48	44	34.9		
ECL400B-BM		blank	107	50	8	48	44	34.9		
ECL500-10BM	500mm²	10	119	56	9	55	50	38.1	31.0	DCL500 (30T Crimp)
ECL500-12BM		12	119	56	9	55	50	38.1		
ECL500-16BM		16	119	56	9	55	50	38.1		
ECL500-20BM		20	119	56	9	55	50	38.1		
ECL500B-BM		blank	119	56	9	55	50	38.1		
ECL630-10BM	630mm²	10	139	64.4	11	64	58	44	37.0	DCL630 (30T Crimp)
ECL630-12BM		12	139	64.4	11	64	58	44		
ECL630-16BM		16	139	64.4	11	64	58	44		
ECL630-20BM		20	139	64.4	11	64	58	44		
ECL630B-BM		blank	139	64.4	11	64	58	44		
ECL800B	800mm²	Available on request. Please contact the ECL team.								
ECL1000B	1,000mm²	Available on request. Please contact the ECL team.								



Copper Circuit Breaker Lugs (Narrow Palm)

Used for moulded case circuit breakers with reduced phase clearance distances. Featuring a bell mouth cable entry, providing ease of use with fine-stranded flexible cables.



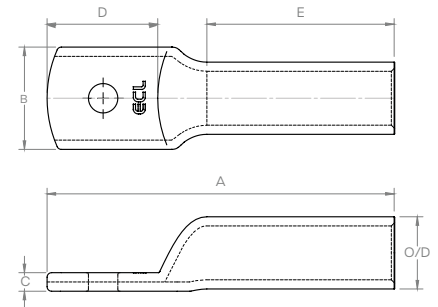
SPECIFICATIONS

Dimensions mm										Crimp Die Info	
Part No.	Cable Size	Stud Size mm	A	B	C	D	D2	E	O/D	A/F mm	Die Part number
ECL25-8CB	25mm²	8	41	15	3	15	7,5	21	9.5	7.7	D25CU
ECL35-6CB	35mm²	6	41	15	3	15	7,5	21	11.5	9.2	D35CU
ECL35-8CB		8	41	15	3	15	7,5	21	11.5		
ECL50-6CB	50mm²	6	46	15	3.2	15	9	22	12.8	10.4	D50CU
ECL50-8CB		8	46	15	3.2	15	9	22	12.8		
ECL50-10CB		10	46	19	3.2	21	9	22	12.8		
ECL70-6CB	70mm²	6	48	17	3.3	15	9	24	14.6	11.5	D70CU
ECL70-8CB		8	48	17	3.3	15	9	24	14.6		
ECL70-10CB		10	48	19	3.3	21	9	24	14.6		
ECL95-8CB	95mm²	8	51	19	3.9	17	9,5	27	17.4	14.2	D95CU
ECL95-10CB		10	55	19	3.9	21	9,5	27	17.4		
ECL120-8CB	120mm²	8	61	19	5	23	12,5	30	20.6	16.5	D120CU
ECL120-10CB		10	61	19	5	23	12,5	30	20.6		
ECL120-12CB		12	61	19	5	23	12,5	30	20.6		
ECL150-8CB	150mm²	8	66	19	5.5	27	12,5	30	22.2	18.3	D150CU
ECL150-10CB		10	66	19	5.5	27	12,5	30	22.2		
ECL150-12CB		12	66	19	5.5	27	12,5	30	22.2		
ECL185-8CB	185mm²	8	74	25.2	5.7	32	14	32	24.2	20.0	D185CU
ECL185-10CB		10	74	25.2	5.7	32	14	32	24.2		
ECL185-12CB		12	74	25.2	5.7	32	14	32	24.2		
ECL240-8CB	240mm²	8	82	31	7.1	32	14	38	28.5	23.1	D240CU (12T Crimp) DCL240 (30T Crimp)
ECL240-10CB		10	82	31	7.1	32	14	38	28.5		
ECL240-12CB		12	82	31	7.1	32	14	38	28.5		
ECL300-10CB	300mm²	10	87	33.5	7.8	32	15	42	31.9	26.0	D300CU (12T Crimp) DCL300 (30T Crimp)
ECL300-12CB		12	87	33.5	7.8	32	15	42	31.9		
ECL400-8CB	400mm²	8	105	34	8	40	15	48	34.9	28.1	D400CU (12T Crimp) DCL400 (30T Crimp)
ECL400-10CB		10	105	34	8	40	15	48	34.9		
ECL400-12CB		12	105	34	8	40	15	48	34.9		
ECL500-CB	Available on request. Please contact the ECL team.										
ECL630-CB	Available on request. Please contact the ECL team.										



Copper Long Barrel Sealed Lugs

Used for outdoor applications where durability and reliability are required. Manufactured from high conductivity copper, with an internally solder-sealed barrel. The extended barrel not only accommodates more crimps but also provides a larger heatshrink area, ensuring a robust and weather resistant connection.



SPECIFICATIONS

Conformant Standard: AS/NZS 4325.1:1995

Part No.	Cable Size	Stud Size mm	Dimensions mm						Crimp Die Info	
			A	B	C	D	E	O/D	A/F mm	Die Part number
ECL16-12LBS	16mm ²	12	54	16	1.55	21	28	7.9	6.3	D16CU
ECL25-10LBS	25mm ²	10	56	16	2	22	29	9.5	7.7	D25CU
ECL25-12LBS		12	58	17	2	22	29	9.5		
ECL35-10LBS	35mm ²	10	65	18	2.6	25	35	11.5	9.2	D35CU
ECL35-12LBS		12	65	20	2.3	25	35	11.5		
ECL50-10LBS	50mm ²	10	77	18	3.2	27	44	12.8	10.4	D50CU
ECL50-12LBS		12	77	21	2.7	27	44	12.8		
ECL70-10LBS	70mm ²	10	81	21	3.3	27	48	14.6	11.5	D70CU
ECL70-12LBS		12	81	21	3.3	27	48	14.6		
ECL95-10LBS	95mm ²	10	88	25	3.9	27	54	17.4	14.2	D95CU
ECL95-12LBS		12	88	25	3.9	27	54	17.4		
ECL120-12LBS	120mm ²	12	98	29	5	30	60	20.6	16.5	D120CU
ECL150-12LBS	150mm ²	12	110	32	5.5	41	60	22.2	18.3	D150CU
ECL185-12LBS	185mm ²	12	115	32	5.5	41	64	24.2	20	D185CU
ECL185-16LBS		16	115	32	5.5	41	64	24.2		
ECL240-LBS	240mm ²	BL	142	32	5.5	41	60	28.5	23.1	D240CU (12T Crimp) DCL240 (30T Crimp)
ECL300-LBS	300mm ²	BL	153	45	7.8	50	90	31.9	26	D300CU (12T Crimp) DCL300 (30T Crimp)
ECL400-LBS	400mm ²	BL	170	50	7.7	52	100	34.9	28.1	D400CU (12T Crimp) DCL400 (30T Crimp)
ECL500-LBS	500mm ²	BL	181	56	8.5	56	105	38.1	31	DCL500 (30T Crimp)
ECL630-LBS	630mm ²	BL	193	65	10.9	56	115	44	37	DCL630 (30T Crimp)
ECL800LBS	800mm ²	Available on request. Please contact the ECL team.								
ECL1000LBS	1,000mm ²	Available on request. Please contact the ECL team.								

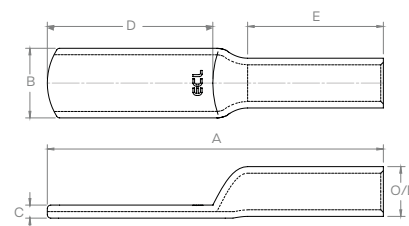


Copper Long Barrel, Long Palm Lugs

Used for outdoor applications, featuring a solder sealed palm. These lugs have no viewing window for enhanced weather resistance. Supplied blank as standard, with punching available on request.

Please specify hole size and hole spacings prior to order.

Conformant Standard: AS/NZS 4325.1:1995



Specifications

Part No.	Cable Size	Dimensions mm						Crimp Die Info	
		A	B	C	D	E	O/D	A/F mm	Die Part number
ECL16LBLP	16mm ²	85	16	1.5	60	21	7.9	6.3	D16CU
ECL25LBLP	25mm ²	95	16.5	1.9	60	29	9.5	7.7	D25CU
ECL35LBLP	35mm ²	112	18	2.6	72	35	11.5	9.2	D35CU
ECL50LBLP	50mm ²	130	18.3	3.3	80	44	12.8	10.4	D50CU
ECL70LBLP	70mm ²	155	21.3	3.5	100	48	14.6	11.5	D70CU
ECL95LBLP	95mm ²	161	26	3.9	100	54	17.4	14.2	D95CU
ECL120LBLP	120mm ²	170	28.7	5	100	60	20.6	16.5	D120CU
ECL150LBLP	150mm ²	170	32.5	5.8	100	60	22.2	18.3	D150CU
ECL185LBLP	185mm ²	174	35.2	5.8	100	64	24.2	20	D185CU
ECL240LBLP	240mm ²	195	41	7.1	105	80	28.5	23.1	D240CU (12T Crimp) DCL240 (30T Crimp)
ECL300LBLP	300mm ²	210	45.3	7.8	105	90	31.9	26	D300CU (12T Crimp) DCL300 (30T Crimp)
ECL400LBLP	400mm ²	228	50.3	7.7	110	100	34.9	28.1	D400CU (12T Crimp) DCL400 (30T Crimp)
ECL500LBLP	500mm ²	237	56.3	8.5	110	105	38.1	31	DCL500 (30T Crimp)
ECL630LBLP	630mm ²	250	65.5	10.9	110	115	44	37	DCL630 (30T Crimp)
ECL800LBLP	800mm ²	Available on request. Please contact the ECL team.							
ECL1000LBLP	1,000mm ²	Available on request. Please contact the ECL team.							

For specials such as bellmouth entry, angled or bent palms please call the ECL sales team.
Hole punching can be provided to the customer's requirements.

Copper Long Barrel, Long Palm Right Angle Lugs

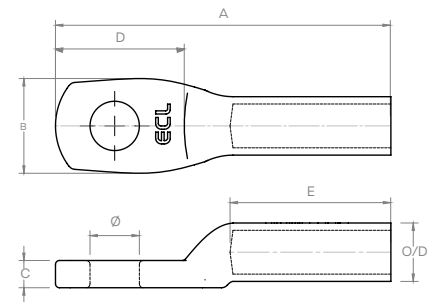
Available on request. Please contact the ECL team.



Copper Solid Forged Lugs

i SPECIFICATIONS

Used for low and medium voltage high current applications. Forged from solid copper rod with high mechanical strength and waterblock construction, ensures reliable performance in demanding situations.



Conformant Standard: AS/NZS 4325.1:1995

Dimensions mm								Crimp Die Info	
Part No.	Cable Size	Stud Size mm	A	B	D	E	O/D	A/F mm	Die Part number
ECLF16-8	16mm²	8	80	21	32	31	11.5	9.2	D35CU
ECLF16-10		10	80	21	32	31	11.5		
ECLF25-10	25mm²	10	80	21	32	31	11.5	9.2	D35CU
ECLF25-12		12	80	21	32	31	11.5		
ECLF35-10	35mm²	10	80	21	32	31	11.5	9.2	D35CU
ECLF35-12		12	80	21	32	31	11.5		
ECLF35-16		16	80	21	32	31	11.5		
ECLF50-10	50mm²	10	80	24	32	33	12.7	10.4	D50CU
ECLF50-12		12	80	24	32	33	12.7		
ECLF50-16		16	80	26	32	33	12.7		
ECLF50-20		20	85	28	36	33	12.7		
ECLF70-10	70mm²	10	90	26	36	40	14.5	11.5	D70CU
ECLF70-12		12	90	26	36	40	14.5		
ECLF70-16		16	90	26	36	40	14.5		
ECLF70-20		20	90	28	36	40	14.5		
ECLF95-12	95mm²	12	100	26	36	43	17.3	14.2	D95CU
ECLF95-16		16	100	28	36	43	17.3		
ECLF95-20		20	100	28	42	43	17.3		
ECLF120-10	120mm²	10	100	26	42	45	20	16.5	D120CU
ECLF120-12		12	100	26	42	45	20		
ECLF150-10	150mm²	10	100	26	42	45	22.5	18.3	D150CU
ECLF150-12		12	100	26	42	45	22.5		
ECLF185-10	185mm²	10	110	26	42	50	24.2	20	D185CU
ECLF185-12		12	110	26	42	50	24.2		
ECLF240	240mm²	Available on request. Please contact the ECL team.							
ECLF300	300mm²	Available on request. Please contact the ECL team.							
ECLF400	400mm²	Available on request. Please contact the ECL team.							
ECLF500	500mm²	Available on request. Please contact the ECL team.							
ECLF630	630mm²	Available on request. Please contact the ECL team.							

Copper Tinned Solid Forged Lugs

For product dimensions, refer to table above.

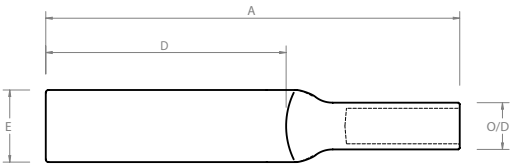
Available on request. Please contact the ECL team.



Copper Solid Forged Lugs, Long Palm

i SPECIFICATIONS

Used for low and medium voltage high current applications. Forged from solid copper rod with high mechanical strength and waterblock construction, ensures reliable performance in demanding situations. Supplied blank as standard, with hole punching available on request.



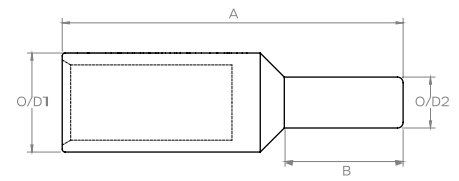
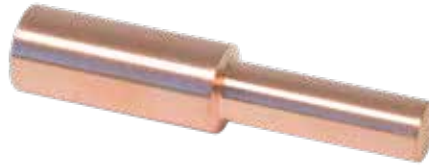
Conformant Standard: AS/NZS 4325.1:1995

Dimensions mm							Crimp Die Info	
Part No.	Cable Size	A	B	D	E	O/D	A/F mm	Die Part number
ECLF16LBLP	16mm ²	Available on request. Please contact the ECL team.				11.5	9.2	D35CU
ECLF25LBLP	25mm ²	Available on request. Please contact the ECL team.				11.5	9.2	D35CU
ECLF35LBLP	35mm ²	Available on request. Please contact the ECL team.				11.5	9.2	D35CU
ECLF50LBLP	50mm ²	Available on request. Please contact the ECL team.				12.7	10.4	D50CU
ECLF70LBLP	70mm ²	Available on request. Please contact the ECL team.				14.5	11.5	D70CU
ECLF95LBLP	95mm ²	Available on request. Please contact the ECL team.				17.3	14.2	D95CU
ECLF120LBLP	120mm ²	Available on request. Please contact the ECL team.				20	16.5	D120CU
ECLF150LBLP	150mm ²	Available on request. Please contact the ECL team.				22.5	18.3	D150CU
ECLF185LBLP	185mm ²	Available on request. Please contact the ECL team.				24.2	20	D185CU
ECLF240LBLP	240mm ²	Available on request. Please contact the ECL team.				27.8	23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECLF300LBLP	300mm ²	Available on request. Please contact the ECL team.				31.3	26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECLF400LBLP	400mm ²	Available on request. Please contact the ECL team.				34.8	28.1	DCL400
ECLF500LBLP	500mm ²	Available on request. Please contact the ECL team.				39	31	DCL500
ECLF630LBLP	630mm ²	Available on request. Please contact the ECL team.				45	37	DCL630



Copper Stalk Lugs

For use with specialist switchgear. Manufactured from 99.9% pure high conductivity copper to your specific dimensions. Please be advised most sizes are manufactured to order and are not eligible for return or credit.



i SPECIFICATIONS

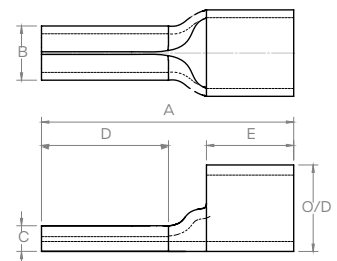
Dimensions mm						Crimp Die Info	
Part No.	Cable Size	A	B	O/D1	O/D2	A/F mm	Die Part number
ECSR16-STALK	16mm ²	53	Custom Size	9.5	Custom Size	7.7	D25CU (12T Crimp)
ECSR25-STALK	25mm ²	53	Custom Size	9.5	Custom Size	7.7	D25CU (12T Crimp)
ECSR35-STALK	35mm ²	53	Custom Size	11.5	Custom Size	9.2	D35CU (12T Crimp)
ECSR50-STALK	50mm ²	58	Custom Size	12.8	Custom Size	10.4	D50CU (12T Crimp)
ECSR70-STALK	70mm ²	66	Custom Size	14.7	Custom Size	11.5	D70CU (12T Crimp)
ECSR95-STALK	95mm ²	75	Custom Size	17.4	Custom Size	14.2	D95CU (12T Crimp)
ECSR120-STALK	120mm ²	84	Custom Size	20.0	Custom Size	16.5	D120CU (12T Crimp)
ECSR150-STALK	150mm ²	88	Custom Size	22.5	Custom Size	18.3	D150CU (12T Crimp)
ECSR185-STALK	185mm ²	93	Custom Size	24.2	Custom Size	20	D185CU (12T Crimp)
ECSR240-STALK	240mm ²	98	Custom Size	27.8	Custom Size	23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSR300-STALK	300mm ²	102	Custom Size	31.3	Custom Size	26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECSR400-STALK	400mm ²	106	Custom Size	34.8	Custom Size	28.1	D400CU (12T Crimp) / DCL400 (30T Crimp)
ECSR500-STALK	500mm ²	110	Custom Size	39.0	Custom Size	31	DCL500 (30T Crimp)
ECSR630-STALK	630mm ²	130	Custom Size	45.0	Custom Size	37	DCL630 (30T Crimp)

Please provide the following details when ordering Copper Stalk Lugs:

ELECTRICAL CONNECTIONS ORDER FORM – COPPER STALK LUGS

Company		Phone	
Contact		Email	
Delivery Address			
Qty. Required		Order No.	
Required by			
Conductor Size		mm ²	
Dimensions			
Stalk Length B		Stalk Diameter D	

Copper Pin Connectors

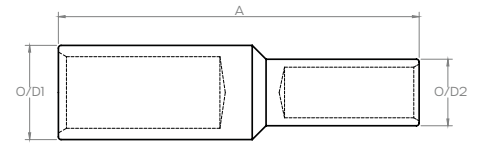
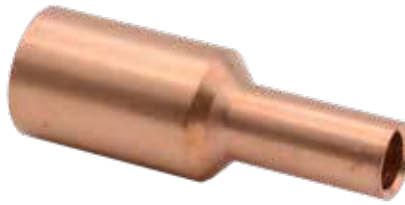


i SPECIFICATIONS

Part No.	Cable Size	A	B	C	D	E	O/D	A/F Hex Die mm	Die Part number
EPCU10	10mm ²	22	4.3	2.0	12	8	6.5	5.7	D10CU
EPCU16	16mm ²	26	5.5	2.4	13	10	8.2	7.7	D16CU (12T Crimp)
EPCU25	25mm ²	33	7.2	3.0	15	11	11.1	7.7	D25CU (12T Crimp)
EPCU35	35mm ²	33	8.2	3.6	15	12	12.6	9.2	D35CU (12T Crimp)

Copper Reducing Links

Manufactured from solid copper high conductivity rod. Please be advised most sizes are manufactured to order and are not eligible for return or credit.



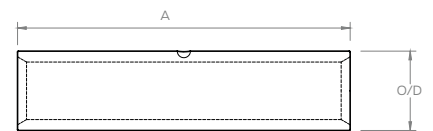
SPECIFICATIONS

	Cable Size		Dimensions mm			Crimp Die Info			
	Large End	Small End	A	O/D Large End	O/D Small End	Large End		Small End	
Part No.	A/F mm					Die Part Number	A/F mm	Die Part Number	
ECSR10-6	10mm ²	6mm ²	30	7.1	5.5	5.7	D10CU (12T Crimp)	Indent Tooling	
ECSR16-6	16mm ²	6mm ²	40	9.6	5.5	7.7	D25CU (12T Crimp)	5.7	D10CU (12T Crimp)
ECSR16-10		10mm ²	40	9.6	7.1	7.7			
ECSR25-6	25mm ²	6mm ²	40	9.5	5.5	7.7	D25CU (12T Crimp)	5.7	D10CU (12T Crimp)
ECSR25-10		10mm ²	40	9.5	7.1	7.7			
ECSR25-16		16mm ²	45	9.5	9.6	7.7			
ECSR35-6	35mm ²	6mm ²	45	11.5	5.5	9.2	D35CU (12T Crimp)	5.7	D10CU (12T Crimp)
ECSR35-10		10mm ²	45	11.5	7.1	9.2			
ECSR35-16		16mm ²	45	11.5	9.6	9.2			
ECSR35-25		25mm ²	45	11.5	9.6	9.2			
ECSR50-10	50mm ²	10mm ²	58	12.8	7.1	10.4	D50CU (12T Crimp)	5.7	D10CU (12T Crimp)
ECSR50-16		16mm ²	58	12.8	9.6	10.4			
ECSR50-25		25mm ²	58	12.8	9.6	10.4			
ECSR50-35		35mm ²	58	12.8	11.5	10.4			
ECSR70-16	70mm ²	16mm ²	66	14.7	9.6	11.5	D70CU (12T Crimp)	7.7	D25CU (12T Crimp)
ECSR70-25		25mm ²	66	14.7	9.6	11.5			
ECSR70-35		35mm ²	66	14.7	11.5	11.5			
ECSR70-50		50mm ²	66	14.7	12.8	11.5			
ECSR95-16	95mm ²	16mm ²	75	17.4	9.6	14.2	D95CU (12T Crimp)	7.7	D25CU (12T Crimp)
ECSR95-25		25mm ²	75	17.4	9.6	14.2			
ECSR95-35		35mm ²	75	17.4	11.5	14.2			
ECSR95-50		50mm ²	75	17.4	12.8	14.2			
ECSR95-70		70mm ²	75	17.4	14.7	14.2			
ECSR120-16	120mm ²	16mm ²	84	20	9.6	16.5	D120CU (12T Crimp)	7.7	D25CU (12T Crimp)
ECSR120-25		25mm ²	84	20	9.6	16.5			
ECSR120-35		35mm ²	84	20	11.5	16.5			
ECSR120-50		50mm ²	84	20	12.8	16.5			
ECSR120-70		70mm ²	84	20	14.7	16.5			
ECSR120-95		95mm ²	84	20	17.4	16.5			
ECSR150-16	150mm ²	16mm ²	88	22.5	9.6	18.3	D150CU (12T Crimp)	7.7	D25CU (12T Crimp)
ECSR150-25		25mm ²	88	22.5	9.6	18.3			
ECSR150-35		35mm ²	88	22.5	11.5	18.3			
ECSR150-50		50mm ²	88	22.5	12.8	18.3			
ECSR150-70		70mm ²	88	22.5	14.7	18.3			
ECSR150-95		95mm ²	88	22.5	17.4	18.3			
ECSR150-120		120mm ²	88	22.5	20	18.3			

	Cable Size		Dimensions mm			Crimp Die Info			
	Large End	Small End	A	O/D Large End	O/D Small End	Large End		Small End	
Part No.						A/F mm	Die Part Number	A/F mm	Die Part Number
ECSR185-25	185mm ²	25mm ²	93	24.2	9.6	20	D185CU (12T Crimp)	7.7	D25CU (12T Crimp)
ECSR185-35		35mm ²	93	24.2	11.5	20		9.2	D35CU (12T Crimp)
ECSR185-50		50mm ²	93	24.2	12.8	20		10.4	D50CU (12T Crimp)
ECSR185-70		70mm ²	93	24.2	14.7	20		11.5	D70CU (12T Crimp)
ECSR185-95		95mm ²	93	24.2	17.4	20		14.2	D95CU (12T Crimp)
ECSR185-120		120mm ²	93	24.2	20	20		16.5	D120CU (12T Crimp)
ECSR185-150		150mm ²	93	24.2	22.5	20		18.3	D150CU (12T Crimp)
ECSR240-25	240mm ²	25mm ²	98	27.8	9.6	23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)	7.7	D25CU (12T Crimp)
ECSR240-35		35mm ²	98	27.8	11.5	23.1		9.2	D35CU (12T Crimp)
ECSR240-50		50mm ²	98	27.8	12.8	23.1		10.4	D50CU (12T Crimp)
ECSR240-70		70mm ²	98	27.8	14.7	23.1		11.5	D70CU (12T Crimp)
ECSR240-95		95mm ²	98	27.8	17.4	23.1		14.2	D95CU (12T Crimp)
ECSR240-120		120mm ²	98	27.8	20	23.1		16.5	D120CU (12T Crimp)
ECSR240-150		150mm ²	98	27.8	22.5	23.1		18.3	D150CU (12T Crimp)
ECSR240-185		185mm ²	98	27.8	24.2	23.1		20	D185CU (12T Crimp)
ECSR300-25	300mm ²	25mm ²	102	31.3	9.6	26	D300CU (12T Crimp) / DCL300 (30T Crimp)	7.7	D25CU (12T Crimp)
ECSR300-35		35mm ²	102	31.3	11.5	26		9.2	D35CU (12T Crimp)
ECSR300-50		50mm ²	102	31.3	12.8	26		10.4	D50CU (12T Crimp)
ECSR300-70		70mm ²	102	31.3	14.7	26		11.5	D70CU (12T Crimp)
ECSR300-95		95mm ²	102	31.3	17.4	26		14.2	D95CU (12T Crimp)
ECSR300-120		120mm ²	102	31.3	20	26		16.5	D120CU (12T Crimp)
ECSR300-150		150mm ²	102	31.3	22.5	26		18.3	D150CU (12T Crimp)
ECSR300-185		185mm ²	102	31.3	24.2	26		20	D185CU (12T Crimp)
ECSR300-240		240mm ²	102	31.3	27.8	26		23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSR400-25	400mm ²	25mm ²	106	34.8	9.6	28.1	D400CU (12T Crimp) / DCL400 (30T Crimp)	7.7	D25CU (12T Crimp)
ECSR400-35		35mm ²	106	34.8	11.5	28.1		9.2	D35CU (12T Crimp)
ECSR400-50		50mm ²	106	34.8	12.8	28.1		10.4	D50CU (12T Crimp)
ECSR400-70		70mm ²	106	34.8	14.7	28.1		11.5	D70CU (12T Crimp)
ECSR400-95		95mm ²	106	34.8	17.4	28.1		14.2	D95CU (12T Crimp)
ECSR400-120		120mm ²	106	34.8	20	28.1		16.5	D120CU (12T Crimp)
ECSR400-150		150mm ²	106	34.8	22.5	28.1		18.3	D150CU (12T Crimp)
ECSR400-185		185mm ²	106	34.8	24.2	28.1		20	D185CU (12T Crimp)
ECSR400-240		240mm ²	106	34.8	27.8	28.1		23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSR400-300		300mm ²	106	34.8	31.3	28.1		26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECSR500-50	500mm ²	50mm ²	110	39	12.8	31	DCL500 (30T Crimp)	10.4	D50CU (12T Crimp)
ECSR500-70		70mm ²	110	39	14.7	31		11.5	D70CU (12T Crimp)
ECSR500-95		95mm ²	110	39	17.4	31		14.2	D95CU (12T Crimp)
ECSR500-120		120mm ²	110	39	20	31		16.5	D120CU (12T Crimp)
ECSR500-150		150mm ²	110	39	22.5	31		18.3	D150CU (12T Crimp)
ECSR500-185		185mm ²	110	39	24.2	31		20	D185CU (12T Crimp)
ECSR500-240		240mm ²	110	39	27.8	31		23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSR500-300		300mm ²	110	39	31.3	31		26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECSR500-400		400mm ²	110	39	34.8	31		28.1	DCL400 (30T Crimp)
ECSR630-70	630mm ²	70mm ²	130	45	14.7	37	DCL630 (30T Crimp)	11.5	D70CU (12T Crimp)
ECSR630-95		95mm ²	130	45	17.4	37		14.2	D95CU (12T Crimp)
ECSR630-120		120mm ²	130	45	20	37		16.5	D120CU (12T Crimp)
ECSR630-150		150mm ²	130	45	22.5	37		18.3	D150CU (12T Crimp)
ECSR630-185		185mm ²	130	45	24.2	37		20	D185CU (12T Crimp)
ECSR630-240		240mm ²	130	45	27.8	37		23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSR630-300		300mm ²	130	45	31.3	37		26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECSR630-400		400mm ²	130	45	34.8	37		28.1	DCL400 (30T Crimp)
ECSR630-500		500mm ²	130	45	39	37		31	DCL500 (30T Crimp)

Copper Crimp Links

Used for joining identical-sized copper conductors. Manufactured from 99.95% pure high-conductivity copper.



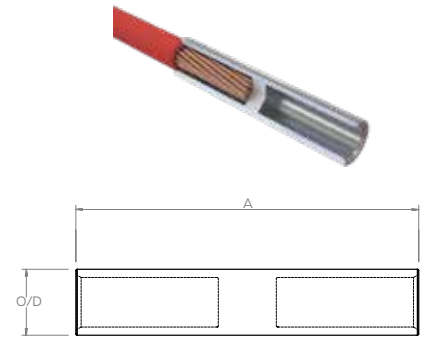
SPECIFICATIONS

Part No.	Cable Size	Dimensions mm		Crimp Die Info	
		A	O/D	A/F mm	Die Part number
ECS1.5	1.5mm ²	22	3.7		Indent Tooling
ECS2.5	2.5mm ²	22	4		Indent Tooling
ECS4	4mm ²	22	4.8		Indent Tooling
ECS6	6mm ²	22	5.5		Indent Tooling
ECS10	10mm ²	22	7.1	5.7	
ECS16	16mm ²	44	7.9	6.3	
ECS25	25mm ²	48	9.5	7.7	D25CU (12T Crimp)
ECS35	35mm ²	48	11.5	9.2	D35CU (12T Crimp)
ECS50	50mm ²	48	12.8	10.4	D50CU (12T Crimp)
ECS70	70mm ²	52	14.7	11.5	D70CU (12T Crimp)
ECS95	95mm ²	54	17.4	14.2	D95CU (12T Crimp)
ECS120	120mm ²	66	20	16.5	D120CU (12T Crimp)
ECS150	150mm ²	66	22.5	18.3	D150CU (12T Crimp)
ECS185	185mm ²	66	24.2	20	D185CU (12T Crimp)
ECS240	240mm ²	91	27.8	23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECS300	300mm ²	91	31.3	26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECS400	400mm ²	91	34.8	28.1	D400CU (12T Crimp) / DCL400 (30T Crimp)
ECS500	500mm ²	114	39	31	DCL500 (30T Crimp)
ECS630	630mm ²	114	45	37	DCL630 (30T Crimp)



Copper Barrier Links

Used for applications demanding a solid blocking barrier in the joint between two identical cables. Manufactured from 99.95% pure high conductivity copper. Crimped with standard crimp tooling. Certain sizes are supplied untinned, offering flexibility to suit various requirements. Custom lengths and sizes available.



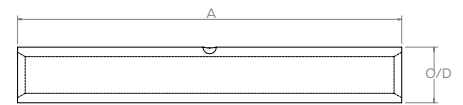
SPECIFICATIONS

Part No.	Cable Size	Dimensions mm		Crimp Die Info	
		A	O/D	A/F mm	Die Part number
ECSB1.5	1.5mm ²	23.5	4		Indent Tooling
ECSB2.5	2.5mm ²	23.5	4		Indent Tooling
ECSB4	4mm ²	23.5	5.2		Indent Tooling
ECSB6	6mm ²	23.5	5.5		Indent Tooling
ECSB10	10mm ²	28.0	7.1	5.7	
ECSB16	16mm ²	55	7.9	6.3	
ECSB25	25mm ²	60	9.6	7.7	D25CU (12T Crimp)
ECSB35	35mm ²	60	11.6	9.2	D35CU (12T Crimp)
ECSB50	50mm ²	65	12.8	10.4	D50CU (12T Crimp)
ECSB70	70mm ²	70	14.8	11.5	D70CU (12T Crimp)
ECSB95	95mm ²	80	17.5	14.2	D95CU (12T Crimp)
ECSB120	120mm ²	85	20	16.5	D120CU (12T Crimp)
ECSB150	150mm ²	85	22.5	18.3	D150CU (12T Crimp)
ECSB185	185mm ²	90	24.2	20	D185CU (12T Crimp)
ECSB240	240mm ²	105	27.8	23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSB300	300mm ²	115	31.3	26	D300CU (12T Crimp) / DCL300 (30T Crimp)
ECSB400	400mm ²	145	34.8	28.1	D400CU (12T Crimp) / DCL400 (30T Crimp)
ECSB500	500mm ²	150	39	31	DCL500 (30T Crimp)
ECSB630	630mm ²	150	45	37.	DCL630 (30T Crimp)



Copper Full Tension Sleeves

Used for joining hard drawn overhead conductors. Manufactured from 99.9% high conductivity copper. Crimping with traditional 'Y' or 'R' type groove crimpers.



Metric					
Part No.	Cable Size	Stranding No. and Dia	Sleeve O/D mm	Length mm	Tool Type and Groove
EC-FTS7/1.35	10mm ²	7/1.35	7.94	64	Y-7.94
EC-FTS7/1.70	16mm ²	7/1.70	7.94	64	Y-7.94
EC-FTS7/2.14	25mm ²	7/2.14	9.52	76	R-9.52
EC-FTS19/1.53	35mm ²	19/1.53	12.7	89	R-12.70
EC-FTS19/1.78	50mm ²	19/1.78	15.88	127	R-15.88
EC-FTS19/2.14	70mm ²	19/2.14	15.88	127	R-15.88

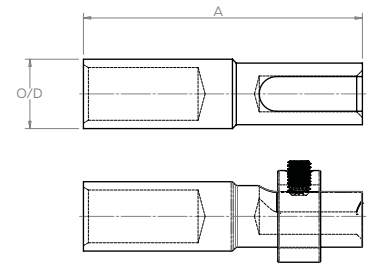
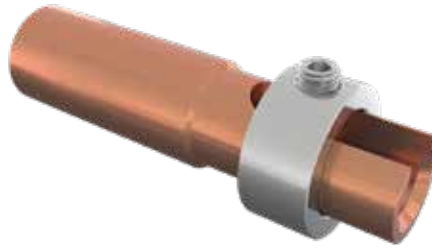
Imperial					
Part No.	Cable Size	Stranding No. and Dia	Sleeve O/D mm	Length mm	Tool Type and Groove
EC-FTS7/044	6.75mm ²	7/044	6.35	38	Y-6.35
EC-FTS7/052	9.43mm ²	7/052	7.94	64	Y-7.94
EC-FTS7/064	14.28mm ²	7/064	7.94	64	Y-7.94
EC-FTS19/052	25.5mm ²	19/052	9.52	76	R-9.52
EC-FTS19/064	39.65mm ²	19/064	12.7	89	R-12.70
EC-FTS19/083	65.1mm ²	19/083	15.88	127	R-15.88



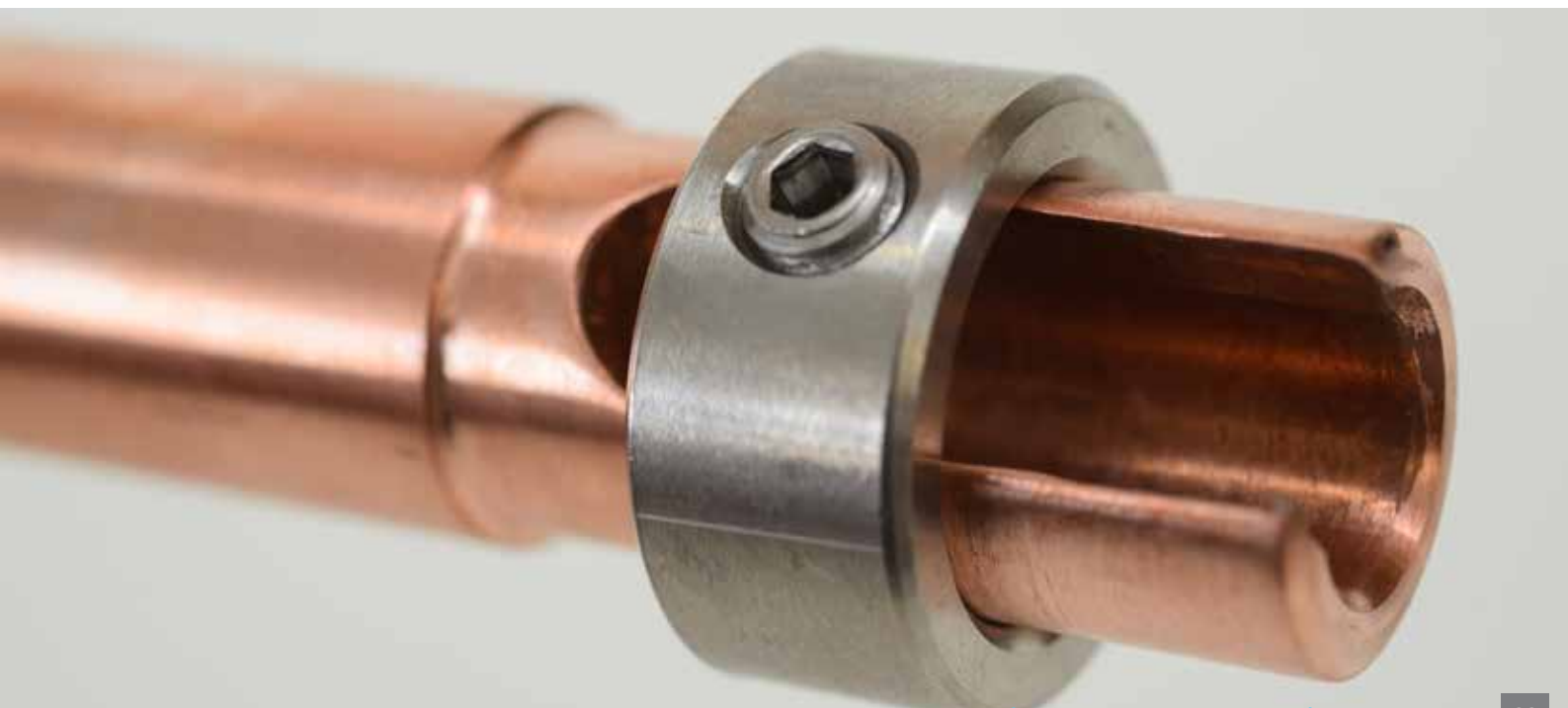
Copper Switchgear Connectors

SPECIFICATIONS

Used for termination of copper cables to a 12mm switchgear stem, compatible with certain brands of medium voltage switchgear. Manufactured from high-purity copper, featuring a precision machined slot designed to accommodate the 12mm stem. Equipped with a stainless steel locking collar, the connector is securely fastened to the switchgear stem after crimping to the cable. The final connection is achieved through a grub screw in the collar, ensuring a reliable and robust termination process.



Part No.	Cable Size	Dimensions mm			Crimp Die Info	
		Switchgear Stem Diameter	A	O/D	A/F mm	Die Part number
ECSRSC16	16mm ²	12	70	9.6	7.7	D25CU (12T Crimp)
ECSRSC25	25mm ²	12	72	9.6	7.7	D25CU (12T Crimp)
ECSRSC35	35mm ²	12	72	11.5	9.2	D35CU (12T Crimp)
ECSRSC50	50mm ²	12	74	12.8	10.4	D50CU (12T Crimp)
ECSRSC70	70mm ²	12	77	14.7	11.5	D70CU (12T Crimp)
ECSRSC95	95mm ²	12	80	17.4	14.2	D95CU (12T Crimp)
ECSRSC120	120mm ²	12	82	20	16.5	D120CU (12T Crimp)
ECSRSC150	150mm ²	12	87	22.5	18.3	D150CU (12T Crimp)
ECSRSC185	185mm ²	12	87	24.2	20	D185CU (12T Crimp)
ECSRSC240	240mm ²	12	90	27.8	23.1	D240CU (12T Crimp) / DCL240 (30T Crimp)
ECSRSC300	300mm ²	12	95	31.3	26	D300CU (12T Crimp) / DCL300 (30T Crimp)

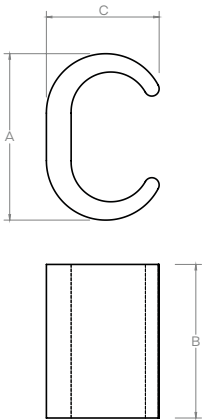


Copper C
Connectors

Used for the interconnection of distribution earthing grids. Manufactured from high conductivity copper, with a durable tin plating. Crimped using designated compression dies, as detailed in the chart below. Refer to the provided chart to determine the specific C connector for your application.



i SPECIFICATIONS



Part No.	Conductor Range mm²	Dimensions mm			Compression Die
		A	B	C	
CC16	14.5-16	11.8	13	7.8	DCT16
CC20	16.5-20	12.8	13	9.7	DCT20
CC26	21-26	14.7	16	10	DCT26
CC44	27-44	19.0	20	14.4	DCT44
CC60	45-60	21	22	15.4	DCT60
CC70 (Untinned)	50-70	34	28	21	MC70-C
CC76	61-76	24.4	22	17.6	DCT76
CC98	77-98	27.8	25	18.8	DCT98
CC122	99-122	29.8	26	21.2	DCT122
CC154	123-154	34	28	24.4	DCT154
CC190	155-190	37	35	25.4	DCT190
CC240	191-240	40	40	28.5	DCT240
CC288	241-288	44.5	45	31.1	DCT288
CC365	289-365	47.5	50	34	DCT365



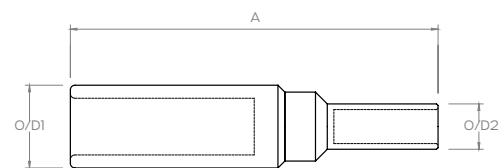


Bimetal Lugs and Links

Bimetal Reducing Links

Used to provide a reliable transition between aluminium and copper cables. Manufactured from high conductivity aluminium and copper. Complete with jointing compound in the aluminium barrel, capped end and compression die information. Customised links can be made to order.

Note: Also available for Named Conductors.



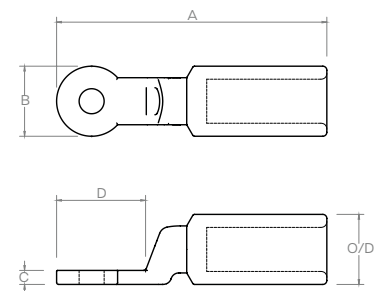
SPECIFICATIONS

Part No.	Cable Size		Dimensions mm			Crimp Die Info			
	AL	Cu	A	O/D 1	O/D 2	Large End (Al)		Small End (Cu)	
						A/F mm	Die Part Number	A/F mm	Die Part Number
BLK25-16	25mm ²	16mm ²	82	12	9.5	9	DA25/35(12T Crimp)	7.7	D25CU(12T Crimp)
BLK25-25		25mm ²	82	12	9.5	9		7.7	D25CU(12T Crimp)
BLK35-16	35mm ²	16mm ²	72	12	9.5	9	DA25/35(12T Crimp)	7.7	D25CU(12T Crimp)
BLK35-25		25mm ²	72	12	9.5	9		7.7	D25CU(12T Crimp)
BLK35-35		35mm ²	72	12	11.5	9		9.2	D35CU(12T Crimp)
BLK50-16	50mm ²	16mm ²	105	16	9.5	13.2	DA50/70(12T Crimp)	7.7	D25CU(12T Crimp)
BLK50-25		25mm ²	105	16	9.5	13.2		7.7	D25CU(12T Crimp)
BLK50-35		35mm ²	105	16	11.5	13.2		9.2	D35CU(12T Crimp)
BLK70-16	70mm ²	16mm ²	105	16	9.5	13.2	DA50/70(12T Crimp)	7.7	D25CU(12T Crimp)
BLK70-25		25mm ²	105	16	9.5	13.2		7.7	D25CU(12T Crimp)
BLK70-35		35mm ²	105	16	11.5	13.2		9.2	D35CU(12T Crimp)
BLK70-50		50mm ²	105	16	12.8	13.2		10.4	D50CU(12T Crimp)
BLK70-70		70mm ²	105	16	14.7	13.2		11.5	D70CU(12T Crimp)
BLK95-16	95mm ²	16mm ²	110	21.5	9.5	17.3	DA95/120(12T Crimp)	7.7	D25CU(12T Crimp)
BLK95-25		25mm ²	110	21.5	9.5	17.3		7.7	D25CU(12T Crimp)
BLK95-35		35mm ²	110	21.5	9.5	17.3		9.2	D35CU(12T Crimp)
BLK95-50		50mm ²	110	21.5	12	17.3		10.4	D50CU(12T Crimp)
BLK95-70		70mm ²	110	21.5	14.7	17.3		11.5	D70CU(12T Crimp)
BLK120-16	120mm ²	16mm ²	110	21.5	9.5	17.3	DA95/120(12T Crimp)	7.7	D25CU(12T Crimp)
BLK120-25		25mm ²	110	21.5	9.5	17.3		7.7	D25CU(12T Crimp)
BLK120-35		35mm ²	110	21.5	11.5	17.3		9.2	D35CU(12T Crimp)
BLK120-50		50mm ²	110	21.5	12.8	17.3		10.4	D50CU(12T Crimp)
BLK120-70		70mm ²	110	21.5	14.7	17.3		11.5	D70CU(12T Crimp)
BLK120-95		95mm ²	110	21.5	17.4	17.3		14.2	D95CU(12T Crimp)
BLK150-16	150mm ²	16mm ²	120	27	9.5	22	DA150/185(12T Crimp)	7.7	D25CU(12T Crimp)
BLK150-25		25mm ²	120	27	9.5	22		7.7	D25CU(12T Crimp)
BLK150-35		35mm ²	120	27	11.5	22		9.2	D35CU(12T Crimp)
BLK150-50		50mm ²	120	27	12.8	22		10.4	D50CU(12T Crimp)
BLK150-70		70mm ²	120	27	14.7	22		11.5	D70CU(12T Crimp)
BLK150-95		95mm ²	120	27	17.4	22		14.2	D95CU(12T Crimp)
BLK150-120		120mm ²	120	27	20	22		16.5	D120CU(12T Crimp)
BLK185-16	185mm ²	16mm ²	120	27	9.5	22	DA150/185(12T Crimp)	7.7	D25CU(12T Crimp)
BLK185-25		25mm ²	120	27	9.5	22		7.7	D25CU(12T Crimp)
BLK185-35		35mm ²	120	27	11.5	22		9.2	D35CU(12T Crimp)
BLK185-50		50mm ²	120	27	12.8	22		10.4	D50CU(12T Crimp)
BLK185-70		70mm ²	120	27	14.7	22		11.5	D70CU(12T Crimp)
BLK185-95		95mm ²	120	27	17.4	22		14.2	D95CU(12T Crimp)
BLK185-120		120mm ²	120	27	20	22		16.5	D120CU(12T Crimp)
BLK185-150		150mm ²	120	27	22.5	22		18.3	D150CU(12T Crimp)

Cable Size			Dimensions mm			Crimp Die Info			
Part No.	AL	Cu	A	O/D 1	O/D 2	Large End (Al)		Small End (Cu)	
						A/F mm	Die Part Number	A/F mm	Die Part Number
BLK240-16	240mm²	16mm²	130	35	9.5	28.4	DA240/300 (12T Crimp) / DAL240/300 (30T Crimp)	7.7	D25CU(12T Crimp)
BLK240-25		25mm²	130	35	9.5	28.4		7.7	D25CU(12T Crimp)
BLK240-35		35mm²	130	35	11.5	28.4		9.2	D35CU(12T Crimp)
BLK240-50		50mm²	130	35	12.8	28.4		10.4	D50CU(12T Crimp)
BLK240-70		70mm²	130	35	14.7	28.4		11.5	D70CU(12T Crimp)
BLK240-95		95mm²	130	35	17.4	28.4		14.2	D95CU(12T Crimp)
BLK240-120		120mm²	130	35	20	28.4		16.5	D120CU(12T Crimp)
BLK240-150		150mm²	130	35	22.5	28.4		18.3	D150CU(12T Crimp)
BLK240-185	300mm²	185mm²	130	35	24.2	28.4	DA240/300 (12T Crimp) / DAL240/300 (30T Crimp)	7.7	D185CU(12T Crimp)
BLK300-16		16mm²	130	35	9.5	28.4		7.7	D25CU(12T Crimp)
BLK300-25		25mm²	130	35	9.5	28.4		7.7	D25CU(12T Crimp)
BLK300-35		35mm²	130	35	11.5	28.4		9.2	D35CU(12T Crimp)
BLK300-50		50mm²	130	35	12.8	28.4		10.4	D50CU(12T Crimp)
BLK300-70		70mm²	130	35	14.7	28.4		11.5	D70CU(12T Crimp)
BLK300-95		95mm²	130	35	17.4	28.4		14.2	D95CU(12T Crimp)
BLK300-120		120mm²	130	35	20	28.4		16.5	D120CU(12T Crimp)
BLK300-150	400mm²	150mm²	130	35	22.5	28.4	DAL400/500 (30T Crimp)	18.3	D150CU(12T Crimp)
BLK300-185		185mm²	130	35	24.2	28.4		20	D185CU(12T Crimp)
BLK300-240		240mm²	130	35	27.8	28.4		23.1	D240CU(12T Crimp) / DCL240(30T Crimp)
BLK400-25		25mm²	155	47	9.5	39		7.7	D25CU(12T Crimp)
BLK400-35		35mm²	155	47	11.5	39		9.2	D35CU(12T Crimp)
BLK400-50		50mm²	155	47	12.8	39		10.4	D50CU(12T Crimp)
BLK400-70		70mm²	155	47	14.7	39		11.5	D70CU(12T Crimp)
BLK400-95		95mm²	155	47	17.4	39		14.2	D95CU(12T Crimp)
BLK400-120	500mm²	120mm²	155	47	20	39	DAL400/500 (30T Crimp)	16.5	D120CU(12T Crimp)
BLK400-150		150mm²	155	47	22.5	39		18.3	D150CU(12T Crimp)
BLK400-185		185mm²	155	47	24.2	39		20	D185CU(12T Crimp)
BLK400-240		240mm²	155	47	27.8	39		23.1	D240CU(12T Crimp) / DCL240(30T Crimp)
BLK400-300		300mm²	155	47	31.3	39		26	D300CU(12T Crimp) / DCL300(30T Crimp)
BLK500-25		25mm²	155	47	9.5	39		7.7	D25CU(12T Crimp)
BLK500-35		35mm²	155	47	11.5	39		9.2	D35CU(12T Crimp)
BLK500-50		50mm²	155	47	12.8	39		10.4	D50CU(12T Crimp)
BLK500-70	630mm²	70mm²	155	47	14.7	39	DAL400/500 (30T Crimp)	11.5	D70CU(12T Crimp)
BLK500-95		95mm²	155	47	17.4	39		14.2	D95CU(12T Crimp)
BLK500-120		120mm²	155	47	20	39		16.5	D120CU(12T Crimp)
BLK500-150		150mm²	155	47	22.5	39		18.3	D150CU(12T Crimp)
BLK500-185		185mm²	155	47	24.2	39		20	D185CU(12T Crimp)
BLK500-240		240mm²	155	47	27.8	39		23.1	D240CU(12T Crimp) / DCL240(30T Crimp)
BLK500-300		300mm²	155	47	31.3	39		26	D300CU(12T Crimp) / DCL300(30T Crimp)
BLK500-400		400mm²	155	47	34.8	39		28.1	D400CU(12T Crimp) / DCL400(30T Crimp)
BLK630-25	630mm²	25mm²	160	50	9.5	43.2	DAL630 (30T Crimp)	7.7	D25CU(12T Crimp)
BLK630-35		35mm²	160	50	11.5	43.2		9.2	D35CU(12T Crimp)
BLK630-50		50mm²	160	50	12.8	43.2		10.4	D50CU(12T Crimp)
BLK630-70		70mm²	160	50	14.7	43.2		11.5	D70CU(12T Crimp)
BLK630-95		95mm²	160	50	17.4	43.2		14.2	D95CU(12T Crimp)
BLK630-120		120mm²	160	50	20	43.2		16.5	D120CU(12T Crimp)
BLK630-150		150mm²	160	60	22.5	43.2		18.3	D150CU(12T Crimp)
BLK630-185		185mm²	160	60	24.2	43.2		20	D185CU(12T Crimp)
BLK630-240	800mm²	240mm²	160	60	27.8	43.2	DAL800 (30T Crimp)	23.1	D240CU(12T Crimp) / DCL240(30T Crimp)
BLK630-300		300mm²	160	60	31.3	43.2		26	D300CU(12T Crimp) / DCL300(30T Crimp)
BLK630-400		400mm²	160	60	34.8	43.2		28.1	D400CU(12T Crimp) / DCL400(30T Crimp)
BLK630-500		500mm²	160	65	39	43.2		31	DCL500(30T Crimp)
BLK800-25		25mm²	194	54	9.5	43.2		7.7	D25CU(12T Crimp)
BLK800-35		35mm²	194	54	11.5	43.2		9.2	D35CU(12T Crimp)
BLK800-50		50mm²	194	54	12.8	43.2		10.4	D50CU(12T Crimp)
BLK800-70		70mm²	194	54	14.7	43.2		11.5	D70CU(12T Crimp)
BLK800-95	800mm²	95mm²	194	54	17.4	43.2	DAL800 (30T Crimp)	14.2	D95CU(12T Crimp)
BLK800-120		120mm²	194	54	20	43.2		16.5	D120CU(12T Crimp)
BLK800-150		150mm²	194	54	22.5	43.2		18.3	D150CU(12T Crimp)
BLK800-185		185mm²	194	54	24.2	43.2		20	D185CU(12T Crimp)
BLK800-240		240mm²	194	54	27.8	43.2		23.1	D240CU(12T Crimp) / DCL240(30T Crimp)
BLK800-300		300mm²	194	54	31.3	43.2		26	D300CU(12T Crimp) / DCL300(30T Crimp)
BLK800-400		400mm²	194	54	34.8	43.2		28.1	D400CU(12T Crimp) / DCL400(30T Crimp)
BLK800-500		500mm²	194	54	39	43.2		31	DCL500(30T Crimp)
BLK1000	1,000mm²	Available on request. Please contact the ECL team.							

Bimetal Lugs

Manufactured from electrical-grade aluminium and copper. Complete with jointing compound in the aluminium barrel, capped end and compression die information.



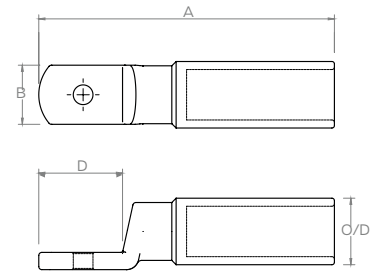
Conformant Standard: AS/NZS 4325.1:1995

Dimensions mm								Crimp Die Info	
Part No.	Cable Size	Stud Size mm	A	B	C	D	O/D	A/F mm	Die Part number
BL25-8	25mm²	8	75	22	4.5	24	12	9	DA25/35(12T Crimp)
BL25-10		10	75	22	4.5	24	12	9	
BL25-12		12	75	22	4.5	24	12	9	
BL35-8	35mm²	8	75	22	4.5	24	12	9	DA25/35(12T Crimp)
BL35-10		10	75	22	4.5	24	12	9	
BL35-12		12	75	22	4.5	24	12	9	
BL50-8	50mm²	8	75	22	5	24	16	13.2	DA50/70(12T Crimp)
BL50-10		10	75	22	5	24	16	13.2	
BL50-12		12	75	22	5	24	16	13.2	
BL70-8	70mm²	8	75	22	5	24	16	13.2	DA50/70(12T Crimp)
BL70-10		10	75	22	5	24	16	13.2	
BL70-12		12	75	22	5	24	16	13.2	
BL95B	95mm²	blank	115	30	6	34	21.5	17.3	DA95/120(12T Crimp)
BL95-8		8	115	30	6	34	21.5	17.3	
BL95-10		10	115	30	6	34	21.5	17.3	
BL95-12		12	115	30	6	34	21.5	17.3	
BL95-16		16	115	30	6	34	21.5	17.3	
BL120B	120mm²	blank	115	30	6	34	21.5	17.3	DA95/120(12T Crimp)
BL120-8		8	115	30	6	34	21.5	17.3	
BL120-10		10	115	30	6	34	21.5	17.3	
BL120-12		12	115	30	6	34	21.5	17.3	
BL120-16		16	115	30	6	34	21.5	17.3	
BL150B	150mm²	blank	120	35	6	38	27	22	DA150/185(12T Crimp)
BL150-8		8	120	35	6	38	27	22	
BL150-10		10	120	35	6	38	27	22	
BL150-12		12	120	35	6	38	27	22	
BL150-16		16	120	35	6	38	27	22	
BL185B	185mm²	blank	120	35	6	38	27	22	DA150/185(12T Crimp)
BL185-8		8	120	35	6	38	27	22	
BL185-10		10	120	35	6	38	27	22	
BL185-12		12	120	35	6	38	27	22	
BL185-16		16	120	35	6	38	27	22	
BL240B	240mm²	blank	135	35	7	44	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BL240-10		10	135	35	7	44	35	28.4	
BL240-12		12	135	35	7	44	35	28.4	
BL240-16		16	135	35	7	44	35	28.4	
BL240-20		20	135	35	7	44	35	28.4	
BL300B	300mm²	blank	135	35	7	44	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BL300-10		10	135	35	7	44	35	28.4	
BL300-12		12	135	35	7	44	35	28.4	
BL300-16		16	135	35	7	44	35	28.4	
BL300-20		20	135	35	7	44	35	28.4	
BL400B	400mm²	blank	165	50	10	52	47	39	DAL400/500(30T Crimp)
BL400-10		10	165	50	10	52	47	39	
BL400-12		12	165	50	10	52	47	39	
BL400-16		16	165	50	10	52	47	39	
BL400-20		20	165	50	10	52	47	39	
BL500B	500mm²	blank	165	50	10	52	47	39	DAL400/500(30T Crimp)
BL500-10		10	165	50	10	52	47	39	
BL500-12		12	165	50	10	52	47	39	
BL500-16		16	165	50	10	52	47	39	
BL500-20		20	165	50	10	52	47	39	
BL630B	630mm²	blank	185	50	10	62	54	43.2	DAL630/800(30T Crimp)
BL630-10		10	185	50	10	62	54	43.2	
BL630-12		12	185	50	10	62	54	43.2	
BL630-16		16	185	50	10	62	54	43.2	
BL630-20		20	185	50	10	62	54	43.2	
BL800-B	800mm²	Available on special request, please contact the ECL team.							
BL1000-B	1,000mm²	Available on special request, please contact the ECL team.							

Bimetal Lugs are available for many named conductors such as Namu, Kutu, Rango, Beetle etc- please contact the ECL team, or refer to page 41.

Bimetal Narrow Palm Lugs

Used for MCCB connections. Complete with jointing compound in the aluminium barrel, capped end and compression die information.

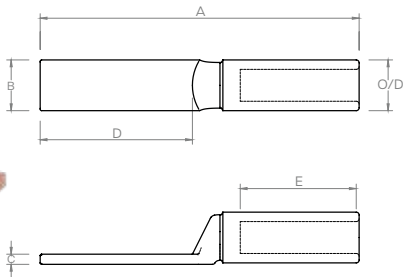


SPECIFICATIONS

Part No.	Cable Size	Stud Size mm	Dimensions mm					Crimp Die Info	
			A	B	C	D	O/D	A/F mm	Die Part number
BL25-6NP	25mm ²	6	75	13	4.5	24	12	9	DA25/35(12T Crimp)
BL25-8NP		8	75	13	4.5	24	12	9	
BL35-6NP	35mm ²	6	80	13	4.5	24	12	9	DA25/35(12T Crimp)
BL35-8NP		8	80	13	4.5	24	12	9	
BL50-6NP	50mm ²	6	80	14.5	4.5	25	16	13.2	DA50/70(12T Crimp)
BL50-8NP		8	80	14.5	4.5	25	16	13.2	
BL70B-NP	70mm ²	Blank	115	14.5	4.5	25	16	13.2	DA50/70(12T Crimp)
BL70-6NP		6	115	14.5	4.5	25	16	13.2	
BL70-8NP		8	115	14.5	4.5	25	16	13.2	
BL70-10NP		10	115	14.5	4.5	25	16	13.2	
BL95B-NP	95mm ²	blank	115	20	6	32	21.5	17.3	DA95/120(12T Crimp)
BL95-6NP		6	115	20	6	32	21.5	17.3	
BL95-8NP		8	115	20	6	32	21.5	17.3	
BL95-10NP		10	115	20	6	32	21.5	17.3	
BL120B-NP	120mm ²	blank	115	20	6	32	21.5	17.3	DA95/120(12T Crimp)
BL120-8NP		8	115	20	6	32	21.5	17.3	
BL120-10NP		10	115	20	6	32	21.5	17.3	
BL120-12NP		12	115	20	6	32	21.5	17.3	
BL150B-NP	150mm ²	blank	120	24	7	35	27	22	DA150/185(12T Crimp)
BL150-8NP		8	120	24	7	35	27	22	
BL150-10NP		10	120	24	7	35	27	22	
BL150-12NP		12	120	24	7	35	27	22	
BL185B-NP	185mm ²	blank	120	24	7	35	27	22	DA150/185(12T Crimp)
BL185-8NP		8	120	24	7	35	27	22	
BL185-10NP		10	120	24	7	35	27	22	
BL185-12NP		12	120	24	7	35	27	22	
BL240B-NP	240mm ²	blank	135	24.5	7	36	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BL240-8NP		8	135	24.5	7	36	35	28.4	
BL240-10NP		10	135	24.5	7	36	35	28.4	
BL240-12NP		12	135	24.5	7	36	35	28.4	
BL300B-NP	300mm ²	blank	135	24.5	7	36	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BL300-8NP		8	135	24.5	7	36	35	28.4	
BL300-10NP		10	135	24.5	7	36	35	28.4	
BL300-12NP		12	135	24.5	7	36	35	28.4	
BL400B-NP	400mm ²	blank	165	32	10	50	47	39	DAL400/500(30T Crimp)
BL400-10NP		10	165	32	10	50	47	39	
BL400-12NP		12	165	32	10	50	47	39	
BL500B-NP	500mm ²	blank	165	32	10	50	47	39	DAL400/500(30T Crimp)
BL500-10NP		10	165	32	10	50	47	39	
BL500-12NP		12	165	32	10	50	47	39	
BL630B-NP	630mm ²	blank	185	38	10	50	54	43.2	DAL630/800(30T Crimp)
BL630-10NP		10	185	38	10	50	54	43.2	
BL630-12NP		12	185	38	10	50	54	43.2	

Bimetal Long Palm Lugs

Used for double bolt applications. Reliable and durable in demanding environments. Manufactured from electrical-grade aluminium and copper. Featuring a robust fusion-welded AL/ Cu joint. Complete with jointing compound in the aluminium barrel, capped end and compression die information. Can be hole punched to meet your specific requirement.



i SPECIFICATIONS

Dimensions mm							Crimp Die Info	
Part No.	Cable Size	A	B	C	D	O/D	A/F mm	Die Part number
BL95LP	95mm²	220	30	6	105	21.5	17.3	DA95/120
BL120LP	120mm²	220	30	6	105	21.5	17.3	DA95/120
BL150LP	150mm²	220	35	6	105	27	22	DA150/185
BL185LP	185mm²	220	35	6	105	27	22	DA150/185
BL240LP	240mm²	220	35	7	105	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BL300LP	300mm²	220	35	7	105	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BL400LP	400mm²	220	50	13	105	47	39	DAL400/500(30T Crimp)
BL500LP	500mm²	220	50	13	105	47	39	DAL400/500(30T Crimp)
BL630LP	630mm²	220	50	13	105	54	43.2	DAL630/800(30T Crimp)
BL800LP	800mm²	260	50	13	105	54	43.2	DAL630/800(30T Crimp)

Bimetal Long Palm
Right Angle Lugs

Available on request. Please contact the ECL team.



Bimetal Named Conductor Lugs

Available for AAC, AAAC and ACSR named conductors. Manufactured from electrical-grade aluminium and copper. Featuring a robust fusion-welded AL/Cu joint. Complete with jointing compound in the aluminium barrel, capped end and compression die information. Long palm lugs supplied blank as standard, if two holes are required please specify hole size and spacings.



Specify your hole size: e.g. BLARGON-10 for M10 stud hole.

Double Bolt Lug			
Part No.	Conductor	Part No.	Conductor
BLARGON-LP	Argon	BLKUTU-LP	Kutu
BLBEE-LP	Bee	BLLADYBIRD-LP	Ladybird
BLBEETLE-LP	Beetle	BLLAMPREY-LP	Lamprey
BLBORON-LP	Boron	BLLUTELIUM-LP	Lutellium
BLBUTTERFLY-LP	Butterfly	BLMAGPIE-LP	Magpie
BLCATERPILLAR-LP	Caterpillar	BLMATA-LP	Mata
BLCENTIPEDE-LP	Centipede	BLMINK-LP	Mink
BLCHAFFER-LP	Chaffer	BLMOA-LP	Moa
BLCHLORINE-LP	Chlorine	BLMOKA-LP	Moka
BLCHRONIUM-LP	Chromium	BLMULLET-LP	Mullet
BLCHUKAR-LP	Chukar	BLNAMU-LP	Namu
BLCICADA-LP	Cicada	BLNEON-LP	Neon
BLCOCKROACH-LP	Cockroach	BLNITROGEN-LP	Nitrogen
BLCOYOTE-LP	Coyote	BLNOBELIUM-LP	Nobelium
BLCRICKET-LP	Cricket	BLOXYGEN-LP	Oxygen
BLDINGO-LP	Dingo	BLPETREL-LP	Petrel
BLDOG-LP	Dog	BLPHOSPHORUS-LP	Phosphorus
BLFERRET-LP	Ferret	BLPOKO-LP	Poko
BLFLOUNDER-LP	Flounder	BLRABBIT-LP	Rabbit
BLFLUORINE-LP	Fluorine	BLRACCOON-LP	Raccoon
BLFLY-LP	Fly	BLRANGO-LP	Rango
BLFOX-LP	Fox	BLSELENIUM-LP	Selenium
BLGNAT-LP	Gnat	BLSILICON-LP	Silicon
BLGOAT-LP	Goat	BLSPIDER-LP	Spider
BLGOPHER-LP	Gopher	BLSQUIRREL-LP	Squirrel
BLGRASSHOPPER-LP	Grasshopper	BLSULPHUR-LP	Sulphur
BLHAKE-LP	Hake	BLSWAN-LP	Swan
BLHARE-LP	Hare	BLTIGER-LP	Tiger
BLHELIUM-LP	Helium	BLWASP-LP	Wasp
BLHORNET	Hornet	BLWEKE-LP	Weke
BLHUHU-LP	Huhu	BLWETA-LP	Weta
BLHYDROGEN-LP	Hydrogen	BLWAXWING-LP	Waxwing
BLHYENA-LP	Hyena	BLWOLF-LP	Wolf
BLIODINE-LP	Iodine	BLXENON-LP	Xenon
BLJAGUAR-LP	Jaguar	BLZEBRA-LP	Zebra
BLKRYPTON-LP	Krypton		

Specify your hole size: e.g. BLARGON-10

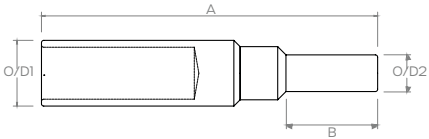
Single Bolt Lug			
Part No.	Conductor	Part No.	Conductor
BLARGON	Argon	BLKUTU	Kutu
BLBEE	Bee	BLLADYBIRD	Ladybird
BLBEETLE	Beetle	BLLAMPREY	Lamprey
BLBORON	Boron	BLLUTELIUM	Lutellium
BLBUTTERFLY	Butterfly	BLMAGPIE	Magpie
BLCATERPILLAR	Caterpillar	BLMATA	Mata
BLCENTIPEDE	Centipede	BLMINK	Mink
BLCHAFFER	Chaffer	BLMOA	Moa
BLCHLORINE	Chlorine	BLMOKA	Moka
BLCHRONIUM	Chromium	BLMULLET	Mullet
BLCHUKAR	Chukar	BLNAMU	Namu
BLCICADA	Cicada	BLNEON	Neon
BLCOCKROACH	Cockroach	BLNITROGEN	Nitrogen
BLCOYOTE	Coyote	BLNOBELIUM	Nobelium
BLCRICKET	Cricket	BLOXYGEN	Oxygen
BLDINGO	Dingo	BLPETREL	Petrel
BLDOG	Dog	BLPHOSPHORUS	Phosphorus
BLFERRET	Ferret	BLPOKO	Poko
BLFLOUNDER	Flounder	BLRABBIT	Rabbit
BLFLUORINE	Fluorine	BLRACCOON	Raccoon
BLFLY	Fly	BLRANGO	Rango
BLFOX	Fox	BLSELENIUM	Selenium
BLGNAT	Gnat	BLSILICON	Silicon
BLGOAT	Goat	BLSPIDER	Spider
BLGOPHER	Gopher	BLSQUIRREL	Squirrel
BLGRASSHOPPER	Grasshopper	BLSULPHUR	Sulphur
BLHAKE	Hake	BLSWAN	Swan
BLHARE	Hare	BLTIGER	Tiger
BLHELIUM	Helium	BLWASP	Wasp
BLHORNET	Hornet	BLWEKE	Weke
BLHUHU	Huhu	BLWETA	Weta
BLHYDROGEN	Hydrogen	BLWAXWING	Waxwing
BLHYENA	Hyena	BLWOLF	Wolf
BLIODINE	Iodine	BLXENON	Xenon
BLJAGUAR	Jaguar	BLZEBRA	Zebra
BLKRYPTON	Krypton		

Specify your hole size: e.g. BLARGON-10

Note: Bimetal Named Conductor Right Angle Lugs available on request, please contact the ECL team.

Bimetal Stalk Lugs

Used with switchgear devices requiring connection via a copper stalk or pin. Manufactured to order from electrical-grade aluminium and copper. Featuring a robust fusion-welded AL/Cu joint. Complete with joining compound in the aluminium barrel, capped end and compression die information. Please be advised most sizes are manufactured to order and are not eligible for return or credit.



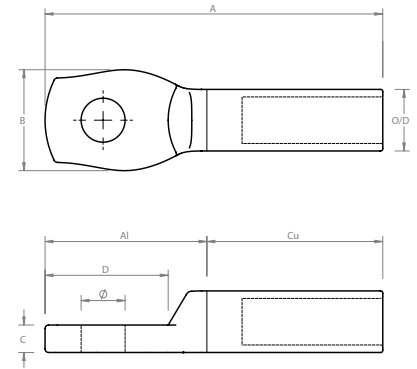
i SPECIFICATIONS

Dimensions mm						Crimp Die Info	
Part No.	Cable Size	A	B	O/D1	O/D2	A/F mm	Die Part number
BLK25-STALK	25mm²	82	Custom Size	12	Custom Size	9	DA25/35(12T Crimp)
BLK35-STALK	35mm²	72	Custom Size	12	Custom Size	9	DA25/35(12T Crimp)
BLK50-STALK	50mm²	105	Custom Size	16	Custom Size	13.2	DA50/70(12T Crimp)
BLK70-STALK	70mm²	105	Custom Size	16	Custom Size	13.2	DA50/70(12T Crimp)
BLK95-STALK	95mm²	110	Custom Size	21.5	Custom Size	17.3	DA95/120(12T Crimp)
BLK120-STALK	120mm²	110	Custom Size	21.5	Custom Size	17.3	DA95/120(12T Crimp)
BLK150-STALK	150mm²	120	Custom Size	27	Custom Size	22	DA150/185(12T Crimp)
BLK185-STALK	185mm²	120	Custom Size	27	Custom Size	22	DA150/180(12T Crimp)
BLK240-STALK	240mm²	130	Custom Size	35	Custom Size	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BLK300-STALK	300mm²	130	Custom Size	35	Custom Size	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
BLK400-STALK	400mm²	155	Custom Size	47	Custom Size	39	DAL400/500(30T Crimp)
BLK500-STALK	500mm²	155	Custom Size	47	Custom Size	39	DAL400/500(30T Crimp)
BLK630-STALK	630mm²	160	Custom Size	54	Custom Size	43.2	DAL630/800(30T Crimp)



Reverse Bimetal Lugs

Used for bolted connections between copper cables and aluminium busbars or terminals. Manufactured from electrical-grade aluminium and copper. Featuring a robust fusion-welded AL/Cu joint. Complete with compression die information.

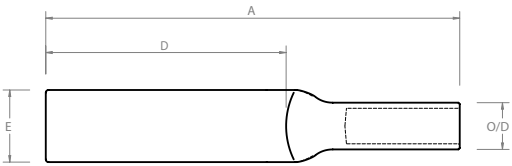


Part No.	Cable Size	Stud Size mm	Dimensions mm				Crimp Die Info	
			A	B	C	D	A/F mm	Die Part number
RBL25-10	25mm ²	10	Available on request. Please contact the ECL team				7.7	D25CU
RBL25-12		12	Available on request. Please contact the ECL team				7.7	D25CU
RBL35-10	35mm ²	10	Available on request. Please contact the ECL team				9.2	D35CU
RBL35-12		12	Available on request. Please contact the ECL team				9.2	D35CU
RBL50-10	50mm ²	10	Available on request. Please contact the ECL team				10.4	D50CU
RBL50-12		12	Available on request. Please contact the ECL team				10.4	D50CU
RBL70-10	70mm ²	10	Available on request. Please contact the ECL team				11.5	D70CU
RBL70-12		12	Available on request. Please contact the ECL team				11.5	D70CU
RBL95-10	95mm ²	10	Available on request. Please contact the ECL team				14.2	D95CU
RBL95-12		12	Available on request. Please contact the ECL team				14.2	D95CU
RBL120-10	120mm ²	10	Available on request. Please contact the ECL team				16.5	D120CU
RBL120-12		12	Available on request. Please contact the ECL team				16.5	D120CU
RBL150-10	150mm ²	10	Available on request. Please contact the ECL team				18.3	D150CU
RBL150-12		12	Available on request. Please contact the ECL team				18.3	D150CU
RBL185-10	185mm ²	10	Available on request. Please contact the ECL team				20	D185CU
RBL185-12		12	Available on request. Please contact the ECL team				20	D185CU
RBL240-12	240mm ²	12	Available on request. Please contact the ECL team				23.1	D240CU(12T Crimp) / DCL240(30T Crimp)
RBL300-12	300mm ²	12	Available on request. Please contact the ECL team				26	D300CU(12T Crimp) / DCL300 (30T Crimp)
RBL400-12	400mm ²	12	Available on request. Please contact the ECL team				28.1	D400CU(12T Crimp) / DCL400(30T Crimp)
RBL500-12	500mm ²	12	Available on request. Please contact the ECL team				31	DCL500(30T Crimp)
RBL630-12	630mm ²	12	Available on request. Please contact the ECL team				37	DCL630(30T Crimp)



Reverse Bimetal Long Palm Lugs

Used for double bolted connections between copper cables and aluminium busbars or terminals. Manufactured from electrical-grade aluminium and copper. Featuring a robust fusion welded AL/Cu joint. Complete with compression die information.



i SPECIFICATIONS

Dimensions mm						Crimp Die Info	
Part No.	Cable Size	A	B	C	D	A/F`mm	Die Part number
RBL25LBLP	25mm ²	Available on request. Please contact the ECL team				7.7	D25CU
RBL35LBLP	35mm ²	Available on request. Please contact the ECL team				9.2	D35CU
RBL50LBLP	50mm ²	Available on request. Please contact the ECL team				10.4	D50CU
RBL70LBLP	70mm ²	Available on request. Please contact the ECL team				11.5	D70CU
RBL95LBLP	95mm ²	Available on request. Please contact the ECL team				14.2	D95CU
RBL120LBLP	120mm ²	Available on request. Please contact the ECL team				16.5	D120CU
RBL150LBLP	150mm ²	Available on request. Please contact the ECL team				18.3	D150CU
RBL185LBLP	185mm ²	Available on request. Please contact the ECL team				20	D185CU
RBL240LBLP	240mm ²	Available on request. Please contact the ECL team				23.1	D240CU
RBL300LBLP	300mm ²	Available on request. Please contact the ECL team				26	D300CU
RBL400LBLP	400mm ²	Available on request. Please contact the ECL team				28.1	D400CU
RBL500LBLP	500mm ²	Available on request. Please contact the ECL team				31	D500CU
RBL630LBLP	630mm ²	Available on request. Please contact the ECL team				37	D630CU

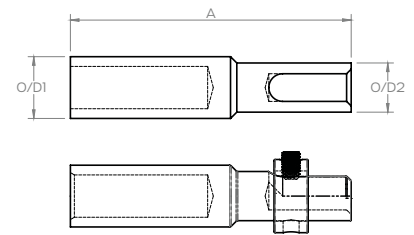
Dimensions available on request, please contact the ECL team.



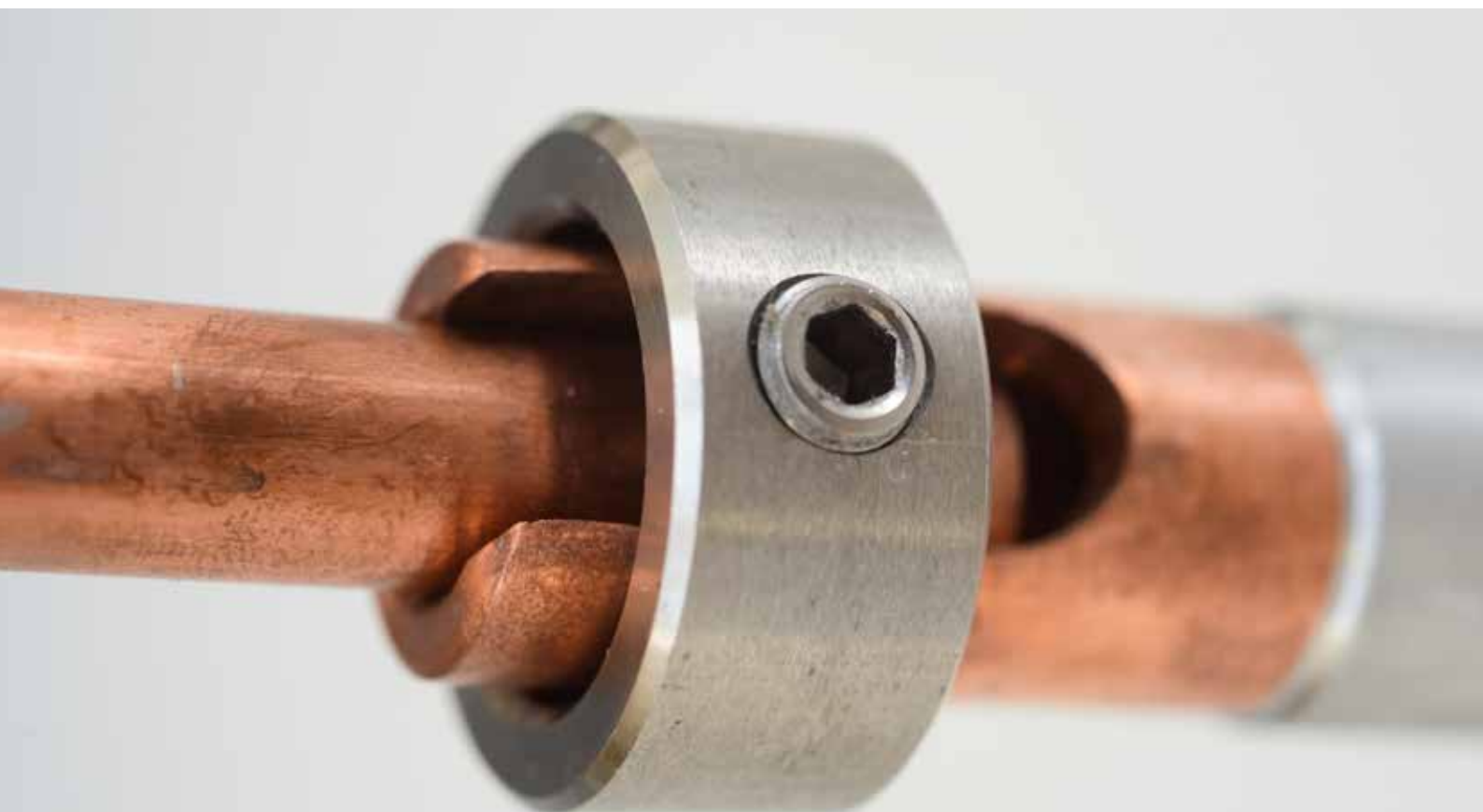
Bimetal Switchgear Connectors

SPECIFICATIONS

Used for termination of copper cables to a 12mm switchgear stem common to some brands of medium voltage switchgear. Manufactured from high purity Cu/AL and machined with a slot to insert the 12mm stem, the fittings come complete with a stainless steel locking collar. Once crimped to the cable the connector is fastened to the switchgear stem by means of a grub screw in the collar.



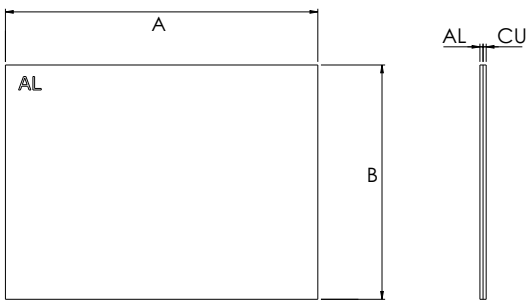
Part No.	Cable Size	Dimensions mm			Crimp Die Info	
		A	O/D1	O/D2	A/F mm	Die Part number
BLKSC25	25mm ²	85	12	21.5	9	DA25/35
BLKSC35	35mm ²	85	12	21.5	9	DA25/35
BLKSC50	50mm ²	85	16	21.5	13.2	DA50/70
BLKSC70	70mm ²	85	16	21.5	13.2	DA50/70
BLKSC95	95mm ²	110	21.5	21.5	17.3	DA95/120
BLKSC120	120mm ²	110	21.5	21.5	17.3	DA95/120
BLKSC150	150mm ²	120	27	21.5	22	DA150/185
BLKSC185	185mm ²	120	27	21.5	22	DA150/185
BLKSC240	240mm ²	120	35	21.5	28.4	DA240/300
BLKSC300	300mm ²	120	35	21.5	28.4	DA240/300



Bimetal Plate

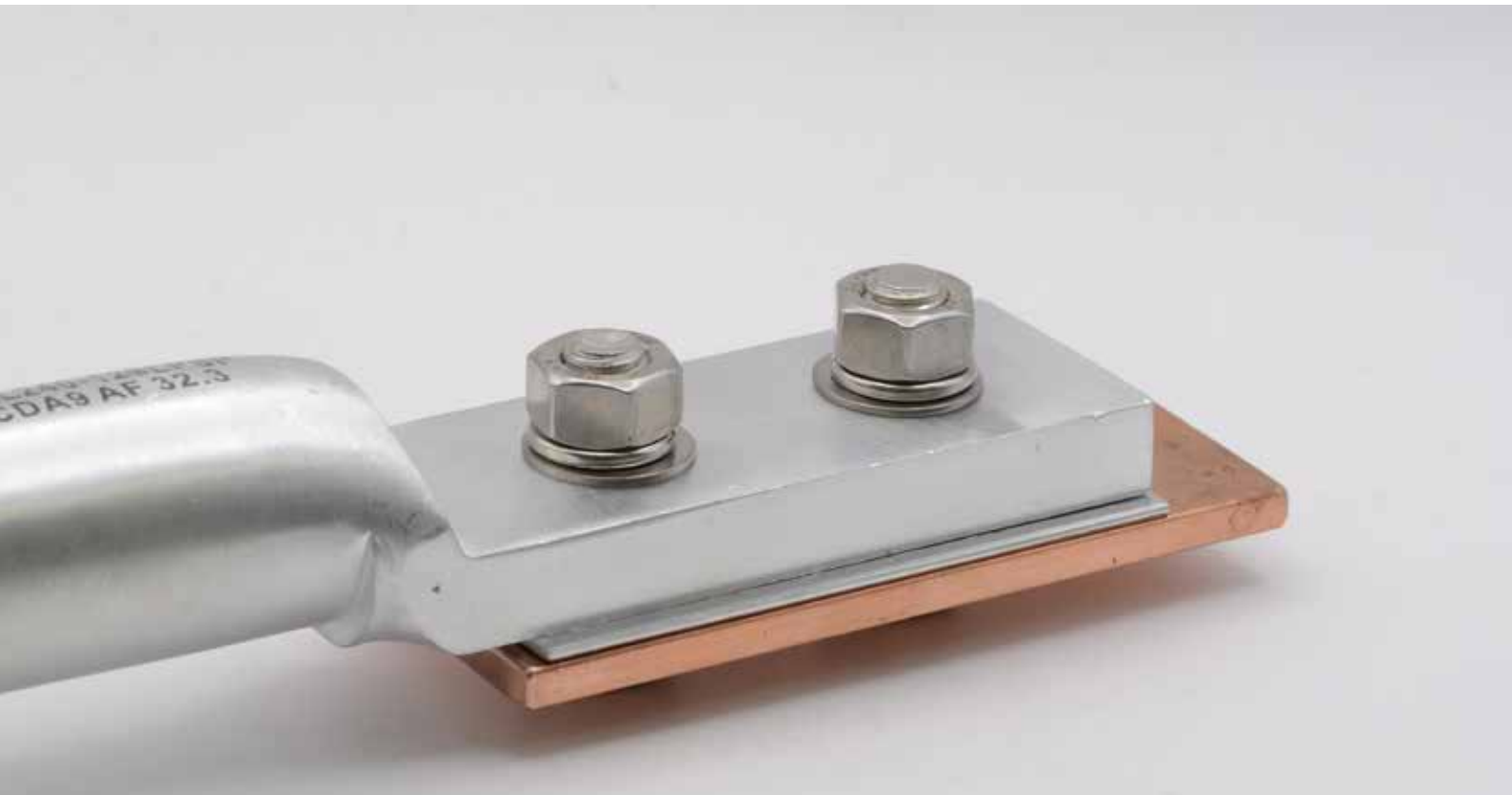
Used when needing to transition aluminium and copper surfaces.

i SPECIFICATIONS



Part No.	Dimensions mm		
	A	B	Thickness C
BLP10045	100	45	2
BLP10075	100	75	2
BLP100100	100	100	2
BLP100450	100	450	2
BLP1206001	120	600	1
BLP130204	130	204	2
BLP130520	130	520	2
BLP138600	138	600	2

For custom sizes, please contact the ECL team.



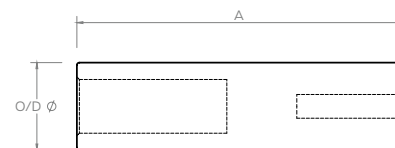




Aluminium & Transition Products

Aluminium Reducing Links

Used for the joining of dissimilar sized aluminium and copper conductors. ALKR links feature a centre barrier. Manufactured from high conductivity aluminium rod. Commonly used on URD-sector and single XLPE cables for service main and network type applications. Complete with jointing compound, capped ends and compression die information.



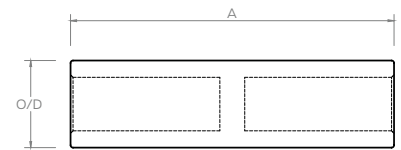
Note: Also available for Named Conductors.

Cable Size			Dimensions mm		Crimp Die Info	
Part No.	AL	Cu	A	O/D	A/F mm	Die Part Number
ALKR25-16	25mm ²	16mm ²	70	12	9	DA25/35 (12T Crimp)
ALKR35-16	35mm ²	16mm ²	70	12	9	DA25/35 (12T Crimp)
ALKR35-25		25mm ²	70	12	9	
ALKR50-16	50mm ²	16mm ²	70	16	13.2	DA50/70 (12T Crimp)
ALKR50-25		25mm ²	70	16	13.2	
ALKR50-35		35mm ²	70	16	13.2	
ALKR70-16	70mm ²	16mm ²	80	16	13.2	DA50/70 (12T Crimp)
ALKR70-25		25mm ²	80	16	13.2	
ALKR70-35		35mm ²	80	16	13.2	
ALKR70-50		50mm ²	80	16	13.2	
ALKR95-16	95mm ²	16mm ²	110	21.5	17.3	DA95/120 (12T Crimp)
ALKR95-25		25mm ²	110	21.5	17.3	
ALKR95-35		35mm ²	110	21.5	17.3	
ALKR95-50		50mm ²	110	21.5	17.3	
ALKR95-70		70mm ²	110	21.5	17.3	
ALKR120-16	120mm ²	16mm ²	110	21.5	17.3	DA95/120 (12T Crimp)
ALKR120-25		25mm ²	110	21.5	17.3	
ALKR120-35		35mm ²	110	21.5	17.3	
ALKR120-50		50mm ²	110	21.5	17.3	
ALKR120-70		70mm ²	110	21.5	17.3	
ALKR150-16	150mm ²	16mm ²	120	27	22	DA150/185 (12T Crimp)
ALKR150-25		25mm ²	120	27	22	
ALKR150-35		35mm ²	120	27	22	
ALKR150-50		50mm ²	120	27	22	
ALKR150-70		70mm ²	120	27	22	
ALKR185-16	185mm ²	16mm ²	120	27	22	DA150/185 (12T Crimp)
ALKR185-25		25mm ²	120	27	22	
ALKR185-35		35mm ²	120	27	22	
ALKR185-50		50mm ²	120	27	22	
ALKR185-70		70mm ²	120	27	22	
ALKR185-95		95mm ²	120	27	22	
ALKR240-16	240mm ²	16mm ²	130	35	28.4	DA240/300 (12T Crimp) / DAL240/300 (30T Crimp)
ALKR240-25		25mm ²	130	35	28.4	
ALKR240-35		35mm ²	130	35	28.4	
ALKR240-50		50mm ²	130	35	28.4	
ALKR240-70		70mm ²	130	35	28.4	
ALKR240-95		95mm ²	130	35	28.4	
ALKR240-120		120mm ²	130	35	28.4	
ALKR240-150		150mm ²	130	35	28.4	
ALKR240-185		185mm ²	130	35	28.4	

Cable Size			Dimensions mm		Crimp Die Info	
Part No.	AL	Cu	A	O/D	A/F mm	Die Part Number
ALKR300-16	300mm ²	16mm ²	130	35	28.4	DA240/300 (12T Crimp) / DAL240/300 (30T Crimp)
ALKR300-25		25mm ²	130	35	28.4	
ALKR300-35		35mm ²	130	35	28.4	
ALKR300-50		50mm ²	130	35	28.4	
ALKR300-70		70mm ²	130	35	28.4	
ALKR300-95		95mm ²	130	35	28.4	
ALKR300-120		120mm ²	130	35	28.4	
ALKR300-150		150mm ²	130	35	28.4	
ALKR300-185	400mm ²	185mm ²	130	35	28.4	DAL400/500 (30T Crimp)
ALKR300-240		240mm ²	130	35	28.4	
ALKR400-35		35mm ²	160	47	39	
ALKR400-50		50mm ²	160	47	39	
ALKR400-70		70mm ²	160	47	39	
ALKR400-95		95mm ²	160	47	39	
ALKR400-120		120mm ²	160	47	39	
ALKR400-150		150mm ²	160	47	39	
ALKR400-185	500mm ²	185mm ²	160	47	39	DAL400/500 (30T Crimp)
ALKR400-240		240mm ²	160	47	39	
ALKR500-50		50mm ²	160	47	39	
ALKR500-70		70mm ²	160	47	39	
ALKR500-95		95mm ²	160	47	39	
ALKR500-120		120mm ²	160	47	39	
ALKR500-150		150mm ²	160	47	39	
ALKR500-185		185mm ²	160	47	39	
ALKR500-240	630mm ²	240mm ²	160	47	39	DAL630/800 (30T Crimp)
ALKR500-300		300mm ²	160	47	39	
ALKR630-50		50mm ²	210	54	43.2	
ALKR630-70		70mm ²	210	54	43.2	
ALKR630-95		95mm ²	210	54	43.2	
ALKR630-120		120mm ²	210	54	43.2	
ALKR630-150		150mm ²	210	54	43.2	
ALKR630-185		185mm ²	210	54	43.2	
ALKR630-240	300mm ²	240mm ²	210	54	43.2	
ALKR630-300		300mm ²	210	54	43.2	

Aluminium Barrier Links

Used for joining same size aluminium conductors. ALKB links feature a centre barrier and are available for most sizes of aluminium conductors, including named conductors. Manufactured from high conductivity aluminium rod. Complete with jointing compound, capped ends and compression die information.



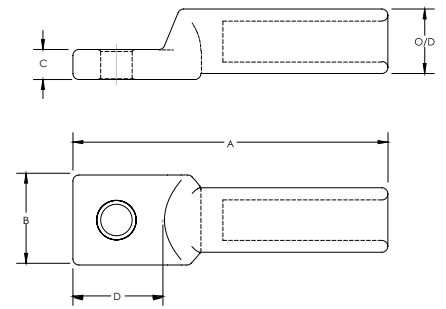
i SPECIFICATIONS

Part No.	Cable Size	Dimensions mm		Crimp Die Info	
		A	O/D	A/F mm	Die Part number
ALKB25	25mm ²	80	12	9	DA25/35 (12T Crimp)
ALKB35	35mm ²	80	12	9	DA25/35 (12T Crimp)
ALKB50	50mm ²	80	16	13.2	DA50/70 (12T Crimp)
ALKB70	70mm ²	80	16	13.2	DA50/70 (12T Crimp)
ALKB95	95mm ²	110	21.5	17.3	DA95/120 (12T Crimp)
ALKB120	120mm ²	110	21.5	17.3	DA95/120 (12T Crimp)
ALKB150	150mm ²	130	27	22	DA150/185 (12T Crimp)
ALKB185	185mm ²	130	27	22	DA150/185 (12T Crimp)
ALKB240	240mm ²	130	35	28.4	DA240/300 (12T Crimp) / DAL240/300 (30T Crimp)
ALKB300	300mm ²	130	35	28.4	DA240/300 (12T Crimp) / DAL240/300 (30T Crimp)
ALKB400	400mm ²	130	47	39	DAL400/500 (30T Crimp)
ALKB500	500mm ²	160	47	39	DAL400/500 (30T Crimp)
ALKB630	630mm ²	210	54	43.2	DAL630/800 (30T Crimp)



Aluminium Lugs

Manufactured from solid aluminium rod using high conductivity 99.6% pure aluminium. Suitable for outdoor use as the palm ends are sealed. Complete with jointing compound in the barrel and sealed with an end cap. Standard sizes are listed, but other sizes can be punched to custom requirements and compression die information.



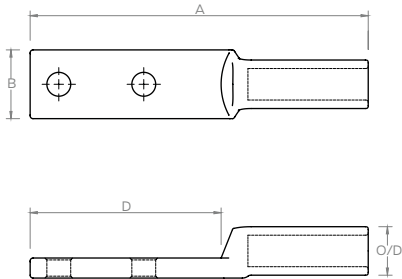
SPECIFICATIONS

Conformant Standard: AS/NZS 4325.1:1995

Part No.	Cable Size	Stud Size mm	Dimensions mm					Crimp Die Info	
			A	B	C	D	O/D	A/F mm	Die Part number
AL25-8	25mm ²	8	70	22	5	22	12	9	DA25/35
AL25-10		10	70	22	5	22	12	9	
AL25-12		12	70	22	5	22	12	9	
AL35-8	35mm ²	8	70	22	5	22	16	9	DA25/35
AL35-10		10	70	22	5	22	16	9	
AL35-12		12	70	22	5	22	16	9	
AL50-8	50mm ²	8	75	28	8	28	16	13.2	DA50/70
AL50-10		10	75	28	8	28	16	13.2	
AL50-12		12	75	28	8	28	16	13.2	
AL70-8	70mm ²	8	75	28	8	28	16	13.2	DA50/70
AL70-10		10	75	28	8	28	16	13.2	
AL70-12		12	75	28	8	28	16	13.2	
AL95-8	95mm ²	8	105	30	10	30	21.5	17.3	DA95/120
AL95-10		10	105	30	10	30	21.5	17.3	
AL95-12		12	105	30	10	30	21.5	17.3	
AL120-8	120mm ²	8	105	30	10	30	21.5	17.3	DA95/120
AL120-10		10	105	30	10	30	21.5	17.3	
AL120-12		12	105	30	10	30	21.5	17.3	
AL150-10	150mm ²	10	105	36	11	36	27	22	DA150/185
AL150-12		12	105	36	11	36	27	22	
AL185-10	185mm ²	10	105	36	11	36	27	22	DA150/185
AL185-12		12	105	36	11	36	27	22	
AL240-10	240mm ²	10	120	40	12	40	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
AL240-12		12	120	40	12	40	35	28.4	
AL300B	300mm ²	Blank	120	40	12	40	35	28.4	DA240/300(12T Crimp) DAL240/300(30T Crimp)
AL300-10		10	120	40	12	40	35	28.4	
AL300-12		12	120	40	12	40	35	28.4	
AL300-16		16	120	40	12	40	35	28.4	
AL400B	400mm ²	Blank	160	54	15	54	47	39	DAL400/500(30T Crimp)
AL400-10		10	160	54	15	54	47	39	
AL400-12		12	160	54	15	54	47	39	
AL400-16		16	160	54	15	54	47	39	
AL500B	500mm ²	Blank	160	54	15	54	47	39	DAL400/500(30T Crimp)
AL500-10		10	160	54	15	54	47	39	
AL500-12		12	160	54	15	54	47	39	
AL500-16		16	160	54	15	54	47	39	
AL630B	630mm ²	Blank	160	60	15	60	54	43.2	DAL630/800(30T Crimp)
AL630-12		12	160	60	15	60	54	43.2	
AL630-16		16	160	60	15	60	54	43.2	

Aluminium Long Palm Lugs

Manufactured from high conductivity solid aluminium rod. The lengthened palm allows for a 'double bolt' connection. Supplied blank as standard, hole punching service is available. Complete with jointing compound and compression die information.



Dimensions mm							
Part No.	Cable Size	Stud Size mm	A	B	C	D	OD
AL50-LP	50mm ²	Optional	Specs available on request. Please contact the ECL team				
AL70-LP	70mm ²	Optional	Specs available on request. Please contact the ECL team				
AL95-LP	95mm ²	Optional	Specs available on request. Please contact the ECL team				
AL120-LP	120mm ²	Optional	Specs available on request. Please contact the ECL team				
AL150-LP	150mm ²	Optional	Specs available on request. Please contact the ECL team				
AL185-LP	185mm ²	Optional	Specs available on request. Please contact the ECL team				
AL240-LP	240mm ²	Optional	Specs available on request. Please contact the ECL team				
AL300-LP	300mm ²	Optional	Specs available on request. Please contact the ECL team				
AL400-LP	400mm ²	Optional	Specs available on request. Please contact the ECL team				
AL500-LP	500mm ²	Optional	Specs available on request. Please contact the ECL team				
AL630-LP	630mm ²	Optional	Specs available on request. Please contact the ECL team				
AL800-LP	800mm ²	Optional	Specs available on request. Please contact the ECL team				
AL1000-LP	1,000mm ²	Optional	Specs available on request. Please contact the ECL team				

Aluminium Long Palm Right Angle Lugs

Available on request. Please contact the ECL team.



Aluminium Named Conductor Lugs

Available for AAC, AAAC and ACSR named conductors. Manufactured from solid aluminium high conductivity rod. Complete with jointing compound, capped ends and compression die information. Long Palm Lugs supplied blank as standard, if two holes are required please specify hole size and spacings.



Specify your hole size: e.g. ALARGON-10 for M10 stud hole.

Double Bolt Lug			
Part No.	Conductor	Part No.	Conductor
ALARGON-LP	Argon	ALKUTU-LP	Kutu
ALBEE-LP	Bee	ALLADYBIRD-LP	Ladybird
ALBEETLE-LP	Beetle	ALLAMPREY-LP	Lamprey
ALBORON-LP	Boron	ALLUTELIUM-LP	Lutelium
ALBUTTERYFLY-LP	Butterfly	ALMAGPIE-LP	Magpie
ALCATERPILLAR-LP	Caterpillar	ALMATA-LP	Mata
ALCENTIPEDE-LP	Centipede	ALMINK-LP	Mink
ALCHAFAER-LP	Chafer	ALMOA-LP	Moa
ALCHLORINE-LP	Chlorine	ALMOKA-LP	Moka
ALCHRONIUM-LP	Chromium	ALMULLET-LP	Mullet
ALCHUKAR-LP	Chukar	ALNAMU-LP	Namu
ALCICADA-LP	Cicada	ALNEON-LP	Neon
ALCOCKROACH-LP	Cockroach	ALNITROGEN-LP	Nitrogen
ALCOYOTE-LP	Coyote	ALNOBELIUM-LP	Nobelium
ALCRICKET-LP	Cricket	ALOXYGEN-LP	Oxygen
ALDINGO-LP	Dingo	ALPETREL-LP	Petrel
ALDOG-LP	Dog	ALPHOSPHORUS-LP	Phosphorus
ALFERRET-LP	Ferret	ALPOKO-LP	Poko
ALFLOUNDER-LP	Flounder	ALRABBIT-LP	Rabbit
ALFLUORINE-LP	Fluorine	ALRACCOON-LP	Raccoon
ALFLY-LP	Fly	ALRANGO-LP	Rango
ALFOX-LP	Fox	ALSELENIUM-LP	Selenium
ALGNAT-LP	Gnat	ALSILICON-LP	Silicon
ALGOAT-LP	Goat	ALSPIDER-LP	Spider
ALGOPHER-LP	Gopher	ALSQUIRREL-LP	Squirrel
ALGRASSHOPPER-LP	Grasshopper	ALSULPHUR-LP	Sulphur
ALHAKE-LP	Hake	ALSWAN-LP	Swan
ALHARE-LP	Hare	ALTIGER-LP	Tiger
ALHELIUM-LP	Helium	ALWASP-LP	Wasp
ALHORNET-LP	Hornet	ALWEKE-LP	Weke
ALHUHU-LP	Huhu	ALWETA-LP	Weta
ALHYDROGEN-LP	Hydrogen	ALWAXWING-LP	Waxwing
ALHYENA-LP	Hyena	ALWOLF-LP	Wolf
ALIODINE-LP	Iodine	ALXENON-LP	Xenon
ALJAGUAR-LP	Jaguar	ALZEBRA-LP	Zebra
ALKRYPTON-LP	Krypton		

Single Bolt Lug			
Part No.	Conductor	Part No.	Conductor
ALARGON	Argon	ALKUTU	Kutu
ALBEE	Bee	ALLADYBIRD	Ladybird
ALBEETLE	Beetle	ALLAMPREY	Lamprey
ALBORON	Boron	ALLUTELIUM	Lutelium
ALBUTTERYFLY	Butterfly	ALMAGPIE	Magpie
ALCATERPILLAR	Caterpillar	ALMATA	Mata
ALCENTIPEDE	Centipede	ALMINK	Mink
ALCHAFAER	Chafer	ALMOA	Moa
ALCHLORINE	Chlorine	ALMOKA	Moka
ALCHRONIUM	Chromium	ALMULLET	Mullet
ALCHUKAR	Chukar	ALNAMU	Namu
ALCICADA	Cicada	ALNEON	Neon
ALCOCKROACH	Cockroach	ALNITROGEN	Nitrogen
ALCOYOTE	Coyote	ALNOBELIUM	Nobelium
ALCRICKET	Cricket	ALOXYGEN	Oxygen
ALDINGO	Dingo	ALPETREL	Petrel
ALDOG	Dog	ALPHOSPHORUS	Phosphorus
ALFERRET	Ferret	ALPOKO	Poko
ALFLOUNDER	Flounder	ALRABBIT	Rabbit
ALFLUORINE	Fluorine	ALRACCOON	Raccoon
ALFLY	Fly	ALRANGO	Rango
ALFOX	Fox	ALSELENIUM	Selenium
ALGNAT	Gnat	ALSILICON	Silicon
ALGOAT	Goat	ALSPIDER	Spider
ALGOPHER	Gopher	ALSQUIRREL	Squirrel
ALGRASSHOPPER	Grasshopper	ALSULPHUR	Sulphur
ALHAKE	Hake	ALSWAN	Swan
ALHARE	Hare	ALTIGER	Tiger
ALHELIUM	Helium	ALWASP	Wasp
ALHORNET	Hornet	ALWEKE	Weke
ALHUHU	Huhu	ALWETA	Weta
ALHYDROGEN	Hydrogen	ALWAXWING	Waxwing
ALHYENA	Hyena	ALWOLF	Wolf
ALIODINE	Iodine	ALXENON	Xenon
ALJAGUAR	Jaguar	ALZEBRA	Zebra
ALKRYPTON	Krypton		

Aluminium Named Conductor Long Palm, Right Angle Lugs

Available on request. Please contact the ECL team.



Aluminium Parallel Groove Clamps

For tap-off connection of aluminium alloy conductors.

Material: High strength corrosion resistant Aluminium Alloy

Bolts: Steel 8.8, hot-dip galvanised

Conductor Cross Section mm ²			Conductor Diameter mm	Bolts
Part No.	AL	ACSR		
EC330672	25-150	25/4 - 120/20	6.3-15.7	2 x M10
EC330674	35-185	35/6 - 150/25	7.5-17.5	2 x M10
EC330680	35-300	35/6 - 265/35	7.5-21.6	3 x M10



Bimetallic Parallel Groove Clamps

For connection of AL conductors, ACSR conductors with copper tap-off conductors.

Material: High strength corrosion resistant aluminium alloy with hot forged bimetallic sheet, for copper tap-off

Bolts: Steel, 8.8, hot-dip galvanised

Nuts: Steel, 8, hot-dip galvanised

Conductor Cross Section mm ²				Conductor Diameter mm		Bolts
Part No.	AL	ACSR	Cu	AL	Cu	
EC330707	35-120	35/6 - 95/15	10-50	7.7 - 14.0	3.5 - 9.0	1 x M8
EC330710	16-70	16/2.5 - 70/12	6-50	5.1 - 12.5	1.6 - 7.5	2 x M8
EC330712	25-150	25/4 - 120/20	10-95	6.3 - 15.7	3.5 - 12.5	2 x M8
EC330716	35-185	35/6 - 150-25	35-185	7.5 - 17.5	7.5 - 17.5	3 x M10
EC330717	50-300	65/6 - 265-35	35-240	9.0 - 23.0	7.5 - 20.3	3 x M10



Bimetallic Cover Type Tap Connectors

For AL, ACSR conductors and copper tap-off conductors.

Material Cover: High strength corrosion resistant aluminium alloy

Material Middle: Aluminium Alloy with hot forged bimetallic sheet

Material Lower: High strength copper alloy

Bolt: Steel, 8.8 hot-dip galvanised

Conical Washers: Steel, corrosion-protected

Conductor Cross Section mm ²				Bolts
Part No.	AL	ACSR	Cu	
EC330714	25-70	25/4 - 70/12	10-70	2 x M8 x 45
EC330715	50-150	50/8 - 120/20	25-120	2 x M8 x 55



Universal Overhead Line Clamps

For clamping of dead ends, tap off conductors, auxiliary conductors AL and ACSR.

Material: High strength aluminium alloy, drop forged

Bolts: Class 8.8 hot-dip galvanised

Conductor Cross Section mm ²			Conductor Diameter mm	Bolts
Part No.	AL	ACSR	AL-ACSR	
EC332695	16-70	25/4 - 70/12	5.1 - 11.7	2 x M8
EC332699	50-150	50/8 - 120/20	9.0 - 16	2 x M10



Copper Parallel Groove Clamps

For tap off connection of copper conductors.

Material: High strength copper alloy

Bolts: Stainless steel

Part No.	Conductor Cross Section mm ²	Conductor Diameter mm	Bolts
EC330571	6-70	3 - 10.5	2 x M8
EC330572	95	3.5 - 12.5	2 x M8
EC330573	16-150	4.5 - 15.7	2 x M10



ENSTO

Insulation Piercing Connectors

IPCs are for use with insulated aluminium or copper conductors. A fully insulated bolt provides safe live line working. Both main and branch conductor insulations are pierced by single bolt action. The design of the connector enables live line installation without peeling insulation from conductor.

Benefits:

- Constructed from hard, corrosion resistant aluminium alloy
- Tested according to international and many national standards
- Tin plated aluminium teeth
- Waterproof

Part No.	Range
ENSLIW52	16-150 mm ² / 1.5-16 mm ²
ENSLIW54	16-120 mm ² / 6-50 mm ²
ENSLIW56	25-150 mm ² / 6-35 mm ²
ENSLIW57	25-150 mm ² / 25-95 mm ²



Parallel Groove Clamp Shearhead Type

Manufactured from tin plated aluminium alloy with shear head bolts of hot-dip galvanized steel.

Part No.	Range	Description
ENSL37.271	AL/Cu 6-95mm ²	Non tension aluminium/copper to aluminium/copper connections. ENSL39.271 connector is suitable for AAC, AAAC and ACSR, Cu conductors, where no mechanical tension is involved.
ENSL39.271	AL/Cu 16-150, Cu 10-120mm ²	Non tension aluminium/copper to aluminium/copper connections. ENSL39.271 connector is suitable for AAC, AAAC and ACSR, Cu conductors. Equipped with two M8 shearhead bolts.
ENSE13.101	Cu 16-120 mm ² / 16-120 mm ²	Non tension copper to copper connections or for the connection of an earthing conductor. The connector is made of copper and the bolt is stainless steel with shear head nut.



Split Bolt Connectors - Line Taps

Manufactured from brass, with a tin plated finish, ECL range of Split Bolt Connectors feature a captive saddle for best clamping performance. Ideal for jointing or tapping off of conductors.

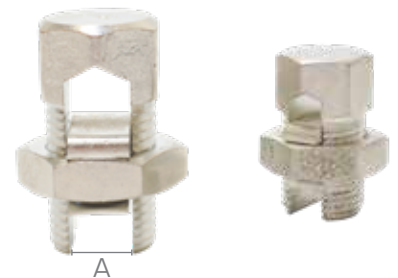
*Heavy Duty

Split Bolt Stanger

Part No.
SBC35PA



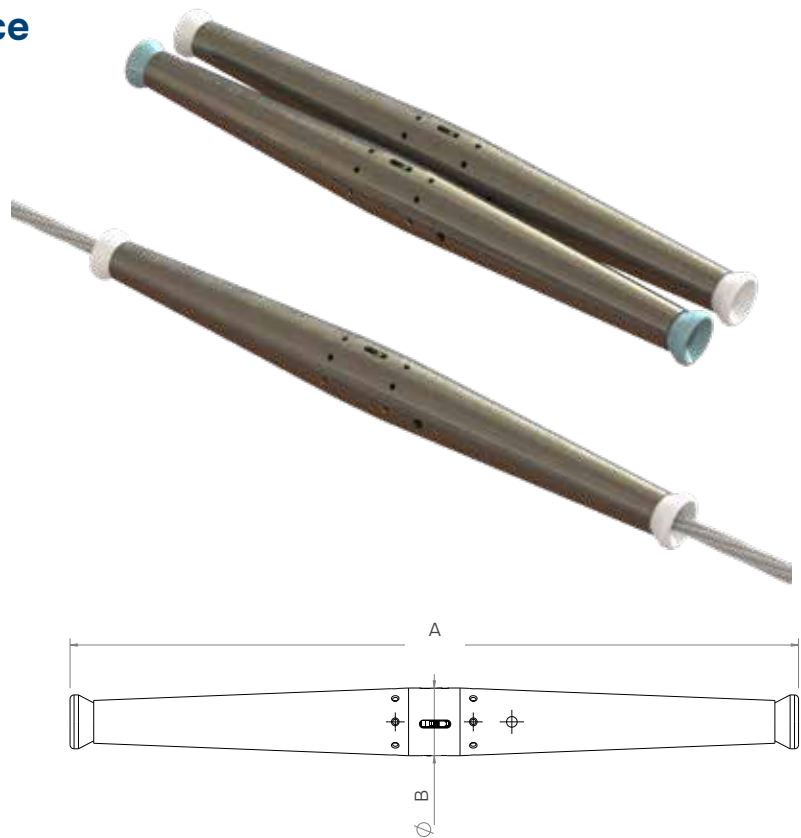
Part No.	Cable Size	Internal Width mm
SBC10	10	5.5
SBC16	16	5.6
SBC25	25	7
SBC12A*	35	8
SBC35	35	8.3
SBC50	50	9.7
SBC70	70	10.8
SBC95	95	14.1
SBC120	120	15.8
SBC150	150	16
SBC185	185	18.1



CRS - Corrosion Resistant Splice

Corrosion Resistant Splice automatic splices are used on ACSR, AAC, AAAC conductor.

- Features:**
- New synthetic inhibitor with wide temperature range for improved corrosion protection in severe environments
 - Pop up tab to verify proper insertion
 - Ventilation holes to allow moisture to escape and for air cooling
 - Stainless steel spring & aluminum pilot cup to improve corrosion performance
 - Field proven: over 2 million units already sold worldwide
 - Suitable for any environment: coastal, industrial, urban or rural
 - Simple, but robust, design for a fast and reliable connection
 - Rated to hold a minimum of 95% of RBS of the conductor used
 - ANSI C119.4 Full Tension Class A connector
 - A minimum tension of 15% of the rated breaking strength of the conductor is recommended for a superior electrical connection



Part No.	A Length		Colour Guide	Conductor Range		AAC	AAAC	ACSR
	Inches Metric	Inches Metric		Inches (in)	Metric (mm)			
37651-CRS	10.0" 254.0mm	0.92" 23.36mm	Orange	0.229 - 0.265	5.82 - 6.73	Gnat, Namu		Magpie, Squirrel, Swan
37652AP-CRS	12.5" 317.5mm	1.01" 25.65mm	Red/Orange	0.229 - 0.340	5.82 - 8.64	Poko	Chlorine, Boron	Gopher
37653-CRS	15.3" 388.6mm	1.20" 30.48mm	Yellow	0.365 - 0.425	9.27 - 11.43	Fly	Helium	Mink, Rabbit
37654AP-CRS	16.0" 406.4mm	1.27" 32.25mm	Grey/Orange	0.365 - 0.475	9.27 - 12.06	Grasshopper		Petrel
37656AP-CRS	17.25" 438.15mm	1.56" 36.62mm	Pink/Black	0.502 - 0.592	12.75 - 15.03	Beetle	Hydrogen	Hyena, Hare
37658AP-CRS	21.5" 546.1mm	1.85" 46.99mm	Green/Brown	0.580 - 0.724	14.73 - 18.38	Bee, Huhu Caterpillar, Hornet, Cricket	Iodine, Krypton, Lutetium	Dog, Coyote, Dingo
37659-CRS	23.5" 596.9mm	2.06" 52.32mm	Aqua	0.740 - 0.856	18.79 - 21.69	Mata, Spider, Cockroach	Neon, Nitrogen	Jaguar
37660-CRS	23.5" 596.9mm	2.34" 59.43mm	Natural	0.879 - 1.040	22.32 - 26.48	Butterfly, Centipede	Oxygen, Phosphorous	Goat

The following Named Conductors do not have an applicable matching splice: Ladybird, Kutu, Chromium, Fluorine, Ferret, Moka, Raccoon, Nobelium







Shearhead
Products

Shearhead Connector Links

Reliable and cost-effective way of connecting different conductor sizes and types. Manufactured and certified in Europe from high strength aluminium alloy. Available from 1kV up to 36kV. Shearhead connectors minimise inventory and can save downtime in the event of cable outages. Quick and easy to use, providing optimal cable clamping and suitable for both copper and aluminium conductors.

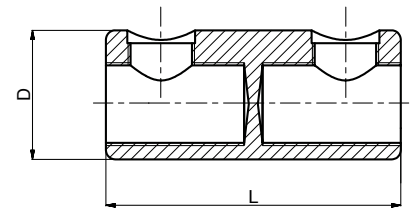
Conformant Standard: IEC 61238-1:2003



Shearhead Connector Links up to 1kV

v	Dimensions mm				
	Part No.	Cable Size	D	L	Screws
	ECZN1516	1.5-16mm ²	12	31	2
	ECZN635	6-35mm ²	16	40	2
	ECZN650	6-50mm ²	18	38	2
	ECZN1695	16-95mm ²	25	55	2
	ECZN2595	25-95mm ²	25	56	2
	ECZN25150	25-150mm ²	28	71	2
	ECZN25185	25-185mm ²	33	80	2
	ECZN120240	120-240mm ²	35	80	2

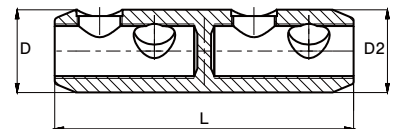
i SPECIFICATIONS



Shearhead Connector Links up to 36kV - ECZS Type

v	Dimensions mm					
	Part No.	Cable Size	D	D2	L	Screws
	ECZS1695	16-95mm ²	24	24	70	2
	ECZS50150	50-150mm ²	30	30	85	2
	ECZS95240	95-240mm ²	33	33	120	4
	ECZS120300	120-300mm ²	38	38	142	4
	ECZS120/300-16/95	120/300-16/95mm ²	38	24	142	2 & 1
	ECZS185/400-95/240	185/400-95/240mm ²	42	33	170	3 & 2
	ECZS185400	185-400mm ²	42	42	170	6
	ECZS185/400-400/630	185/400-400/630mm ²	50	42	200	3 & 3
	ECZS400630	400-630mm ²	52	52	200	6

i SPECIFICATIONS



Shearhead Holding Tool

Holder for shear off screw terminals and connectors for use during mounting and tightening screws.



v	Dimensions mm			
	Part No.	Description	Length	Weight
	ECUZS	Shearhead Holding Tool	265	650g

Shearhead Connector Lugs

Reliable and cost-effective way of connecting different conductor sizes and types. Manufactured and certified in Europe from high strength aluminium alloy. Available from 1kV up to 36kV. Shearhead connectors minimise inventory and can save downtime in the event of cable outages. Quick and easy to use, providing optimal cable clamping and suitable for both copper and aluminium conductors.

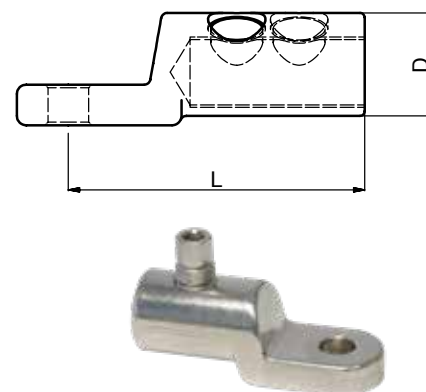
Conformant Standard: IEC 61238-1:2003



Shearhead Connector Lugs up to 6kV

Part No.	Cable Size	Stud Size mm	Dimensions mm			
			D	L	Palm Width	Screws
ECKN8-1695	16-95mm ²	8	25	52	25	1
ECKN10-1695	16-95mm ²	10	25	52	25	1
ECKN12-1695	16-95mm ²	12	25	52	25	1
ECKN8-25185	25-185mm ²	8	33	95	33.5	2
ECKN10-25185	25-185mm ²	10	33	95	33.5	2
ECKN12-25185	25-185mm ²	12	33	95	33.5	2
ECKN16-25185	25-185mm ²	16	33	95	33.5	2
ECKN8-120300	120-300mm ²	8	38	104	38	2
ECKN10-120300	120-300mm ²	10	38	104	38	2
ECKN12-120300	120-300mm ²	12	38	104	38	2
ECKN16-120300	120-300mm ²	16	38	104	38	2

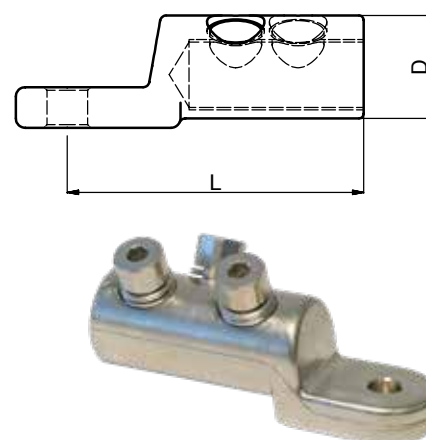
i SPECIFICATIONS



Shearhead Connector Lugs up to 36kV

Part No.	Cable Size	Stud Size mm	Dimensions mm			
			D	L	Palm Width	Screws
ECKS12-1695	16-95mm ²	12	24	60	30	1
ECKS12-50150	50-150mm ²	12	30	79	30	1
ECKS16-50150	50-150mm ²	16	30	79	30	1
ECKS12-95240	95-240mm ²	12	33	95	33.5	2
ECKS16-95240	95-240mm ²	16	33	95	33.5	2
ECKS12-120300	120-300mm ²	12	38	105	38	2
ECKS16-120300	120-300mm ²	16	38	105	38	2
ECKS12-185400	185-400mm ²	12	42	120	42	3
ECKS16-185400	185-400mm ²	16	42	120	42	3
ECKS12-400630	400-630mm ²	12	52	136	52	3
ECKS16-400630	400-630mm ²	16	52	136	52	3

i SPECIFICATIONS



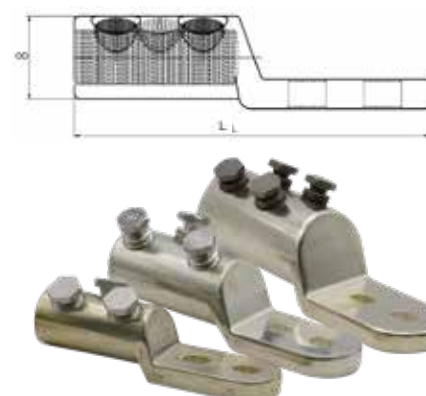
Shearhead Long Palm Lugs

With a long palm to accommodate 2 holes. Available from 1kV up to 36kV. Manufactured from high strength aluminium alloy and electro plated.

Conformant Standard: IEC 61238-1:2003

Part No.	Cable Size	Dimensions mm	
		L	OD
ECKS12D-1695	16-95mm ²	92	24
ECKS12D-95240	95-240mm ²	128	33
ECKS12D-185400	185-400mm ²	159	42
ECKS12D-400630	400-630mm ²	180	52
ECKS12D-6301000	630-1000mm ²	208	65

i SPECIFICATIONS



Parallel Groove Clamp Shearhead Type

Manufactured from tin plated aluminium alloy with shear head bolts of hot-dip galvanised steel.

Part No.	Range	Description
ENSL37.271	AL/Cu 6-95mm ²	Non tension aluminium/copper to aluminium/copper connections. ENSL37.271 connector is suitable for AAC, AAAC and ACSR, Cu conductors, where no mechanical tension is involved.
ENSL39.271	AL/Cu 16-150, Cu 10-120mm ²	Non tension aluminium/copper to aluminium/copper connections. ENSL39.271 connector is suitable for AAC, AAAC and ACSR, Cu conductors. Equipped with two M8 shearhead bolts.
ENSE13.101	Cu 16-120 mm ² / 16-120 mm ²	Non tension copper to copper connections or for the connection of an earthing conductor. The connector is made of copper and the bolt is stainless steel with shear head nut.



Features & Benefits

FEATURES & BENEFITS OF SHEARHEAD LUGS & LINKS

Good contact properties	Connection between copper and aluminium conductors is possible.
Conductor Connection hole with crosswise and lengthwise grooves	Good electrical performance. Conductor oxide film is disrupted.
Centered hold and inserts	Conductors of every size are centered. Height of the step between the conductor insulation and connector surface is reduced. Same cut-back length even when centering insert is used. Wires are not distorted when bolts are tightened.
Shearhead with predetermined shear torque, hexagon head and specially shaped contact ring	No torque wrench necessary. Head shears off when a specific level of torque is applied. High tensile strength.
Lubricated bolts	Reduces friction. Converts tightening torque into contact force for maximum effect.

Installation

- Easy and secure installation without special tools
- All it takes to tighten bolts is a wrench and hexagon socket
- Same cut-back length for each type
- Inserts are included
- Shearhead bolts with pre determined torque ensure a reliable and secure contact
- The use of a support tool is recommended to prevent conductor bending
- Separate installation instructions included with every connector or cable lug
- When joining copper flex, it is recommended to use brass gauze or uninsulated copper ferrules





Custom
Manufacture

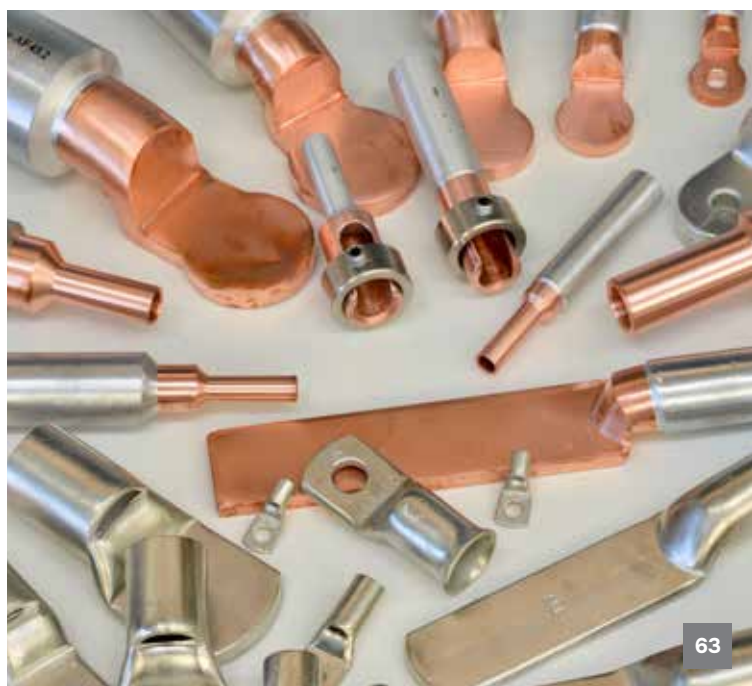


Tailored Perfection

We ensure product can be manufactured to your exact specification and bespoke requirements.

Customer Satisfaction

The right product at the right time - we'll make it happen. We understand your needs, preferences and pain points, and strive to achieve an enjoyable experience every time.



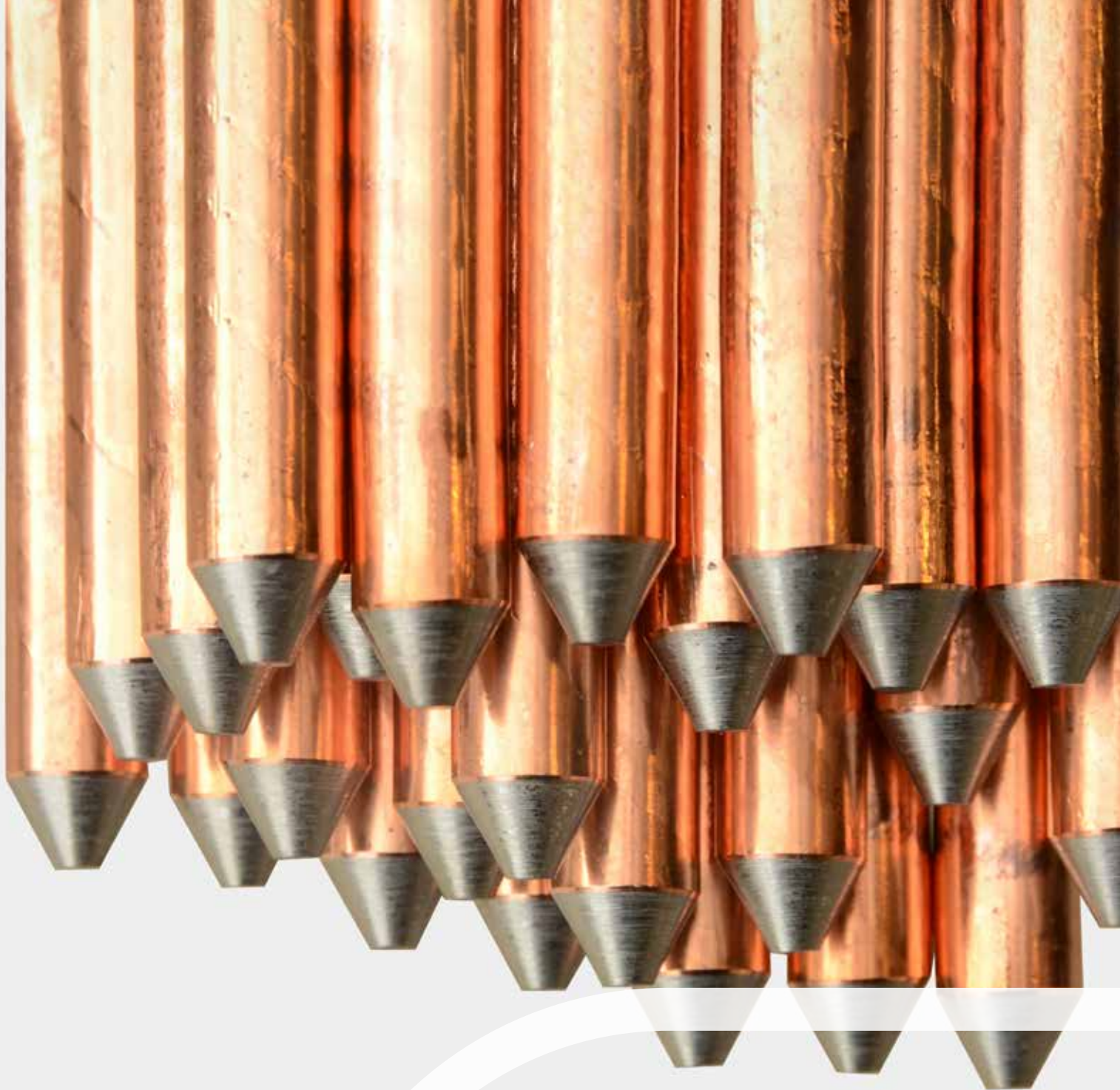


Quality Control

With personalised attention to detail, you can expect superior quality. Our test laboratory and rigorous quality control ensure we meet the highest of standards.

Bespoke Solutions





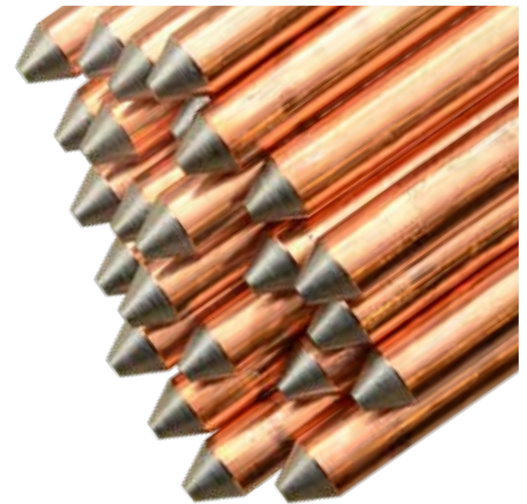
Earthing Products

Earth Rods - Copper Bonded

Copper Bonded Earth Rods establish a quality earth and provide ground contact in all soil conditions.

- 99.9% pure electrolytic copper bonded to a low carbon steel core
- Provide a low resistance link to the ground
- Minimum 254 microns electrolytic copper coating
- Supplied in bundles, see below pack size

Part No.	Dimensions	Pack Size
ER1813CC	1.8m x 12.8mm	20
ER1816CC	1.8m x 16mm	10

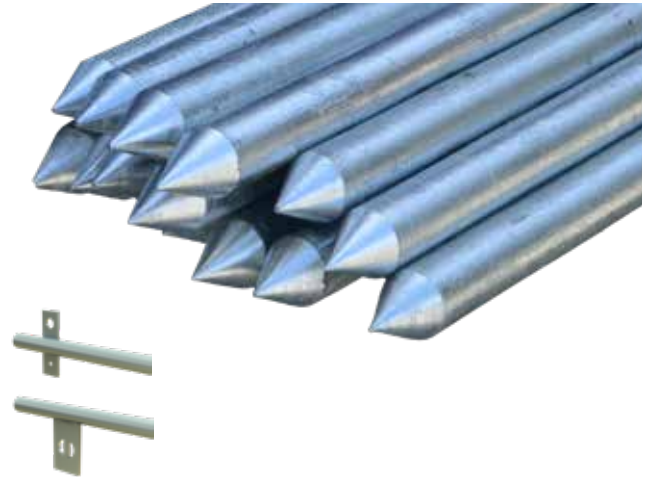


Earth Rods - Galvanised Steel

Galvanised Steel Earth Rods establish a cost effective earth and provide ground contact in all soil conditions.

- Designed for structural earthing and lightning protection
- Supplied in bundles of 10

Part No.	Description	Dimensions	Pack Size
ER2016G	Plain	2.0m x 16mm	10
ER2016GT	With 2 Hole Tag	2.0m x 16mm	10
ER2016G35PA	With HD12A Line Tap Tag	2.0m x 16mm	10



Complete Earth - Street Lighting

12.8mm Copper Bonded Steel Rod with an exothermically welded earth provides a welded connection from the streetlight to the earth.

Other options made to order. Please contact the ECL team to discuss your requirements.

- Supplied in bundles of 50

Part No.	Rod Dimensions	Earth Lead
ER1813CW310	1.8m x 12.8mm	3m x 10mm Green/Yellow earth
ER1813CW316	1.8m x 12.8mm	3m x 16mm Green/Yellow earth
ER1813CW1010	1.8m x 12.8mm	10m x 10mm Green/Yellow earth



Untinned/Tinned Copper Earth Bars

We supply a range of Untinned and Tinned Copper Earth Bars to suit client requirements.

- Stainless steel studs, washers and nuts
- Large range of sizes available



Earth Rod Couplers

Brass Earth Rod Couplers are available for joining copper bonded earth rods.

- Used to join multiple earth rods together

Part No.	Description
ERC127	Earth Rod Joiner/Coupler Brass 12.8mm
ERC16	Earth Rod Joiner/Coupler Brass 16mm



Earth Rod Driving Tips

Driving Earth Rods in hard ground is made easier with a driving tip.

- Available for 12.8mm earth rods.

Part No.	Description
ERDT	Earth Rod Driving Tip



Earth Clamps

12.8mm copper bonded steel rod with a welded earth provides a welded connection from the streetlight to the earth.

- These have a groove to ensure correct placement of conductor
- Designed for single conductor parallel orientation
- Can be easily removed if required

Part No.	Description
ERCL1670S	Earth Rod Clamp 16-70mm, zinc-plated bolt



Part No.	Description
ERCLU-1	Earth Rod Clamp 12.8-16mm Dia Rod, 16-35mm² Cable SS U Bolt



Constant Tension Springs

For use in low and medium voltage cable joints, and also as a copper braid earth clamp.

Part No.	Internal Diameter mm	Application Range mm	Width mm
CS12-21	11	12-21	16
CS17-22	14	17-22	19
CS19-29	16	19-29	19
CS25-37	22	25-37	19
CS31-50	23	31-50	19
CS34-70	32	34-70	19

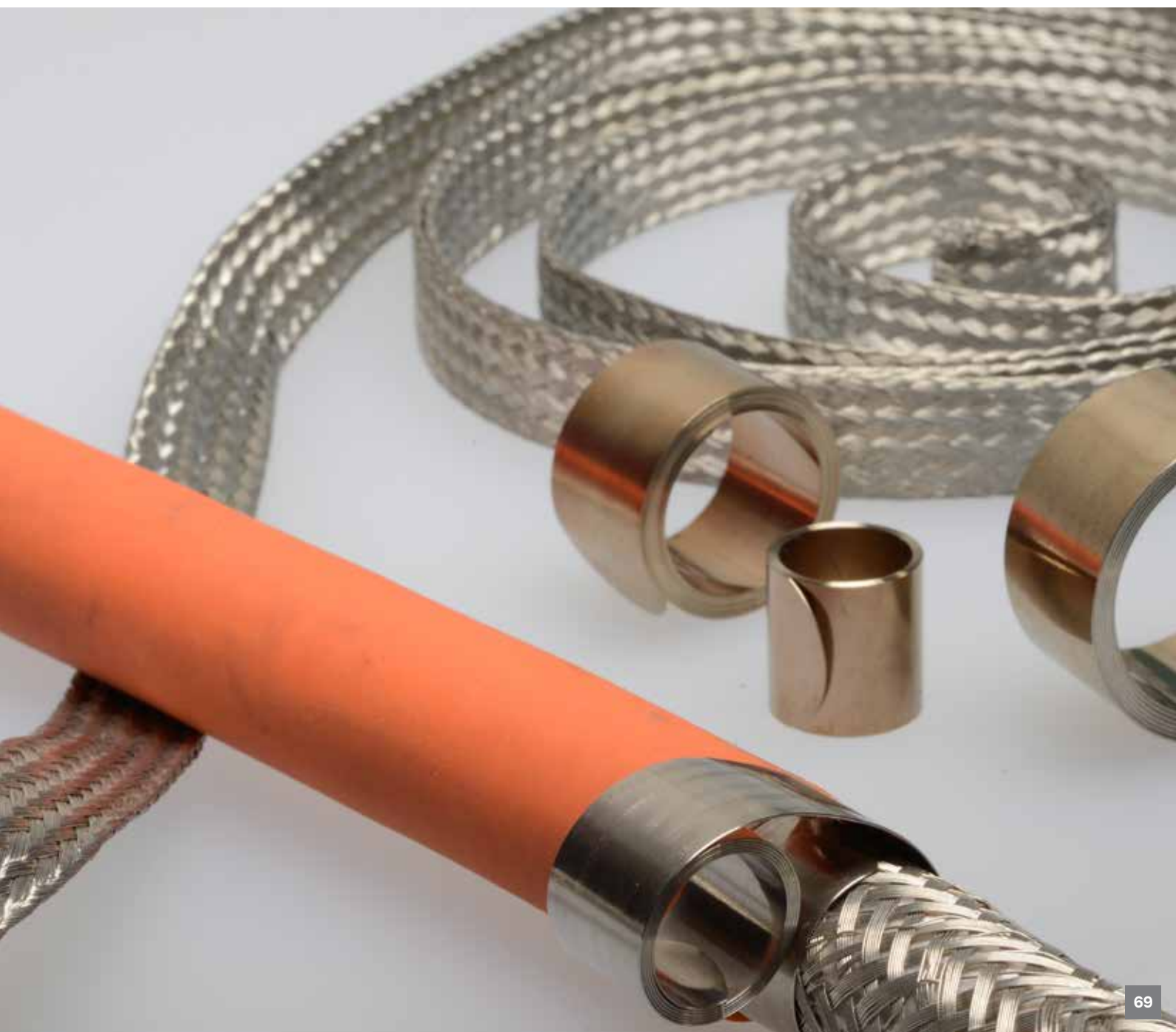


Tinned Copper Braid

ECL supplies a range of tinned and untinned Copper Braids. Tinned Copper Braid is sold by the metre, or fixed lengths with end furrules manufactured to order.

Please contact the ECL team to discuss your requirements.

Part No.	Description
CUBR4	Copper Braid Tinned 4mm ²
CUBR10	Copper Braid Tinned 10mm ²
CUBR16	Copper Braid Tinned 16mm ²
CUBR25	Copper Braid Tinned 25mm ²
CUBR35	Copper Braid Tinned 35mm ²



Industrial Area



Nylon Cable Glands

Electrical Connections Cable Glands are unique. Originally marketed as the ‘ultimate’ gland, our glands have been the preferred choice by end users for many years. Finished in black nylon, these glands have the following special features:

- Rated to IP68
- Supplied with sealing washer and locknut
- Large size range
- Continuous operating withstand temperature -40° to 100°C
- Short term withstand temperature rating 200°C
- Superior cable retention due to locking mechanism. Ideal in vibration prone environment such as the marine industry

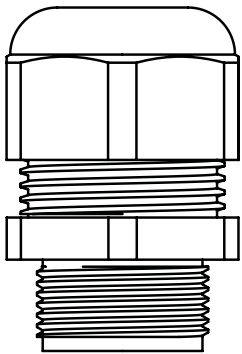
GEN20



Nylon Cable Glands - Metric Series				
Part No.	Thread Size	Colour	Cable Diameter min-max mm	Pack Size
G12	M12	Black	3-6	100
G12G	M12	Grey	3-6	100
G16	M16	Black	4-10	50
G16G	M16	Grey	4-10	50
G20	M20	Black	7-13	40
G20G	M20	Grey	7-13	40
G25	M25	Black	11-18	20
G25G	M25	Grey	11-18	20
G32	M32	Black	15-24	15
G40	M40	Black	19-31	6
G50	M50	Black	27-38	3
G63	M63	Black	34-43	2
G75	M75	Black	47-56	1

For other colours, please contact our ECL sales team.

Nylon Cable Glands - PG Series		
Part No.	Thread Size	Cable Diameter min-max mm
GPG9	PG9	4-8
GPG11	PG11	6-10
GPG13.5	PG13.5	7-12.5
GPG16	PG16	8.5-14
GPG21	PG21	12.5-18
GPG29	PG29	18-25



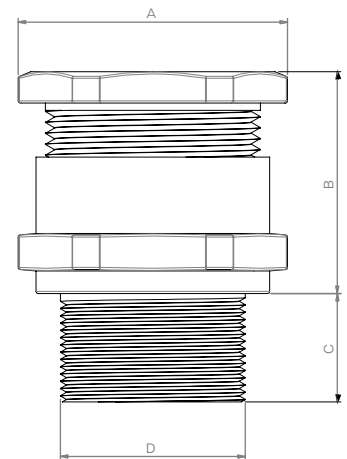
Cable Glands Unarmoured A2

For general purpose use with XLPE and PVC cables offering effective cable retention for unarmoured cable. Manufactured in nickel plated brass they are suitable for arduous environment. The large cable range covered by each gland size reduces inventory and simplifies gland selection. Glands are supplied complete with locknut and are rated to IP68 if fitted with a gasket.

Conformant Standard: BS EN 62444:2013

TECHNICAL DETAILS	Material:	Brass BS 2874 CZ121 Pb3
	Application:	A2 compression type cable glands can be used indoors or outdoors, on all "unarmoured cable".
	IP Rating:	IP66
	Finish:	Nickel plated finish
	Operating Temp.:	Standard seals -20°C to 80°C

SPECIFICATIONS



Part No.	Thread Size D	Thread Length mm C	Cable Diameter (min-max) mm	Dia Across Corners mm A	Dia Across Flat mm A
GA220SS	M20	15	3.5-8.5	24.4	23
GA220S	M20	15	8-11.5	26.5	23
GA220L	M20	15	11-13.5	26.5	23
GA225	M25	15	13-19.5	39.9	33.1
GA232	M32	15	19-25.5	45.5	40.1
GA240	M40	15	25-32	55.4	49.3
GA250S	M50	15	31.5-37	61	55.3
GA250L	M50	15	36.5-43	65.5	59.4
GA263S	M63	15	42.5-50	77.6	70
GA263L	M63	15	49.5-55	83.2	73
GA275S	M75	15	54.5-61	88.7	83.5
GA275L	M75	15	60.5-67	94.2	84.3
GA290	M90	20	65-78	120.7	103.5
GA2100	M100	24	76.5-90	120	130
GA2130	M130	Available on request, please contact the ECL team.			

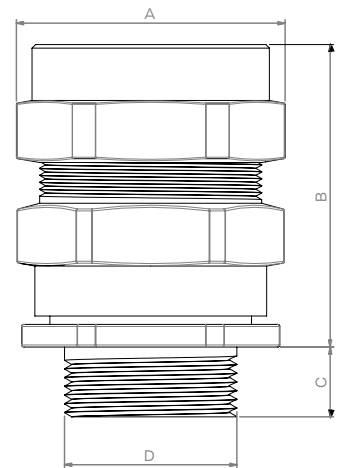


CW Armoured Cable Glands

SPECIFICATIONS

For use with steel wire armoured (SWA) cable. Manufactured from nickel plated brass they are suitable for both indoor and outdoor applications. Glands are supplied complete with locknut.

Material:	Brass BS 2874 CZ121 Pb3
IP Rating:	IP66
Finish:	Nickel plated finish



Cable Dimensions mm								
Part No.	Shroud Part Number	Thread Size D	Thread Length mm C	Max Under Armour Dia mm	Overall Dia		Dia Across Corners mm A	Dia Across Flats mm A
					min	max		
GCW20S	GSH1S	M20	10	11.5	9.8	15.5	24	22.3
GCW20L	GSH1	M20	10	14	12.7	20.5	26	23.3
GCW25	GSH2	M25	10	18.5	18.5	27.2	37	34
GCW32	GSH3	M32	10	22	22	33.5	45.6	40.5
GCW40	GSH4	M40	13	28	28	39.5	51	46
GCW50S	GSH5S	M50	13	34	34	46.3	64	57
GCW50L	GSH5	M50	13	41	41	52.6	69.6	62
GCW63S	GSH6S	M63S	14	48	48	59	77.6	69
GCW63L	GSH6	M63L	14	50	50	65.3	87	77
GCW75	GSH7	M75	15	60	60	71.6	96	85

Gland Selection Chart - Armoured Cables nominal diameter							
Cable	2 Core + E	3 Core + E	7 Core	12 Core	19 Core	27 Core	32 Core
1.5mm	CW20SS	CW20SS	CW20SS	CW20S	CW25		CW32
2.5mm	CW20S	CW20S	CW20S	CW25	CW20S	CW32	CW40
4mm	CW20S	CW20S					
6mm	CW20S	CW25					
10mm		CW25					
16mm		CW25					
25mm		CW32					
35mm		CW32					
50mm		CW32					
70mm		CW40					
95mm		CW50S					
120mm		CW50L					
150mm		CW50L					
185mm		CW63S					
240mm		CW63L					

Cable Gland Accessories

Locknuts

Nickel Plated Brass		Stainless Steel 316	
Part No.	Thread Size	Part No.	Thread Size
GML12	M12	GSSL12	M12
GML16	M16	GSSL16	M16
GML20	M20	GSSL20	M20
GML25	M25	GSSL25	M25
GML32	M32	GSSL30	M32
GML40	M40	GSSL40	M40
GML50	M50	GSSL50	M50
GML63	M63	GSSL63	M63
GML75	M75	GSSL75	M75



Earth Tags

Nickel Plated Brass Part No.	Stainless Steel 316 Part No.	Stud Size mm	Hole Size
EET16	EET16SS	7	M16
EET20	EET20SS	7	M20
EET25	EET25SS	7	M26
EET32	EET32SS	7	M32
EET40	EET40SS	7	M40
EET50	EET50SS	7	M51
EET63	EET63SS	7	M64



Gland Shrouds

Standard		To suit Hazardous Glands	
Part No.	CW Gland Size	Part No.	FGE1FW Gland
GSH1S	M20S	FGES20L	M20L
GSH1	M20	FGES20S	M20S
GSH2	M25	FGES25	M25
GSH3	M32	FGES32	M32
GSH4	M40	FGES40	M40
GSH5S	M50S	FGES50	M50L
GSH5	M50L	FGES50S	M50S
GSH6S	M63S	FGES63L	M63L
GSH6	M63L	FGES63S	M63S
GSH7	M75S	FGES75L	M75L
GSH7L	M75L	FGES75S	M75S
		FGES90	M90



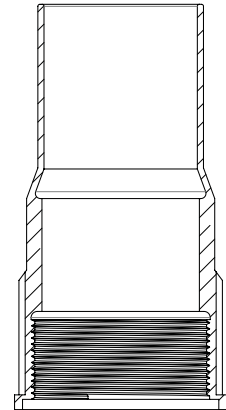
Heatshrink Cable Glands

i SPECIFICATIONS

GHSC series of Heat Shrinkable Cable Glands were developed to provide a cost effective method of providing a weatherproof seal on a variety of cables. The glands are manufactured in accordance with MIL specifications and provide a flame retarded adhesive lined body along with a male threaded entry part to enable fixture to the gland plate.

Features

- Fast shrinkage with the application of heat (120°C)
- Continuous operating temperature suitable for a broad spectrum of practical uses
- Meets or exceeds standard specifications for Cable Entry Seals
- LSZH or Flame retardant with a flammability rating of non-burning
- Excellent dielectric properties suitable as electrical insulation
- Low water absorption qualities for providing a flexible moisture proof barrier
- Good low temperature flexibility with no cracking after prolonged exposure to cold
- Excellent heat resistance with no dripping or flowing, Thermoset Materials
- Very high tensile strength flexible rubber like synthetic compounds

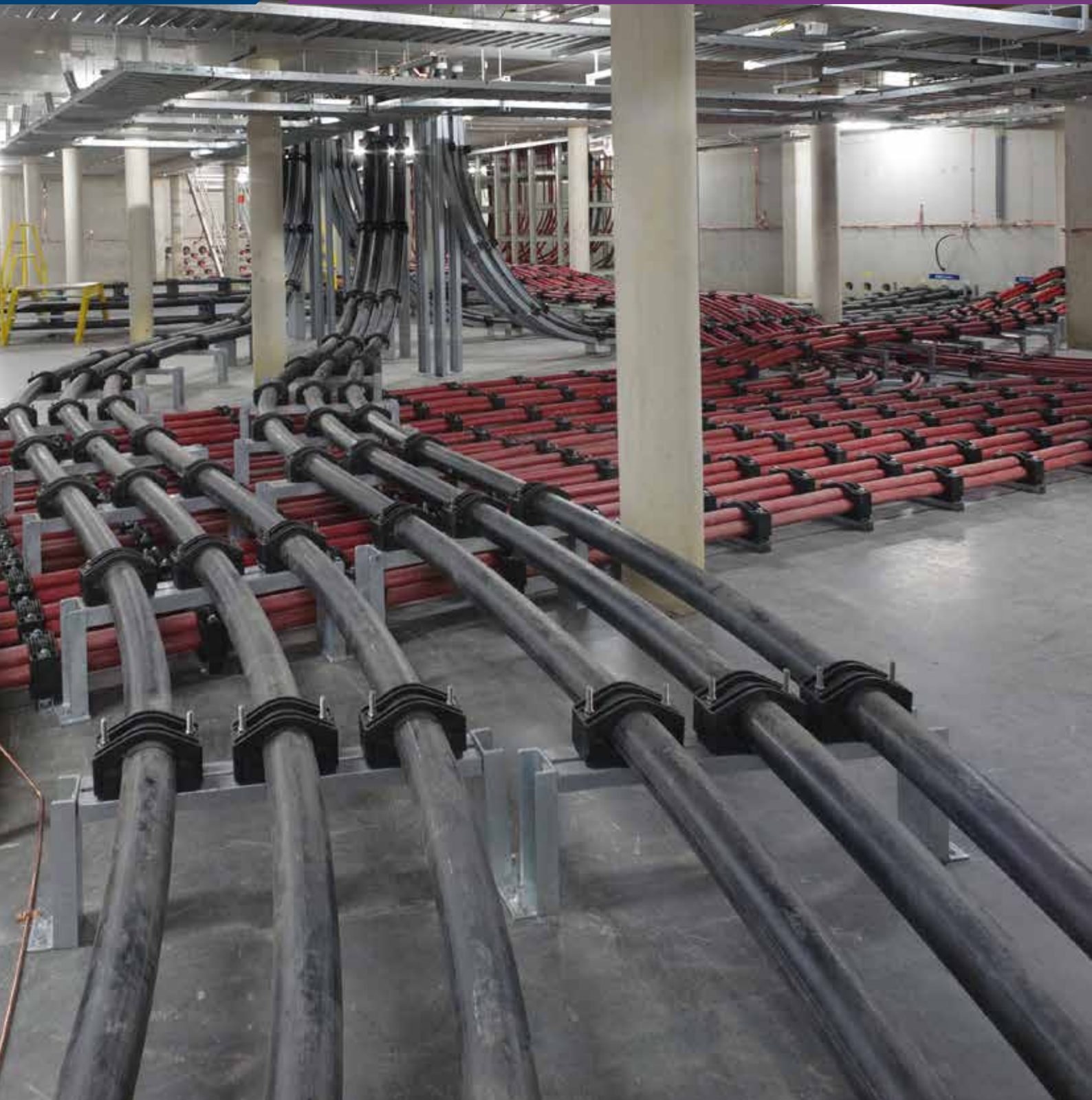


Part No.	Cable O/D Min mm	Cable O/D Max mm	Gland Plate Thickness Max mm	Overall Length (recovered) mm	Entry Hole Size mm
GHSC1	4	12	6	95	26
GHSC2	7	17	6	95	26
GHSC3	13	26	6	100	35
GHSC4	19	38	6	130	51
GHSC4s	19	51	6	170	60
GHSC5	36	70	6	200	88
GHSC6X	40	91	6	340	110

Larger sizes available on request, please contact the ECL team.



Cable Clamps



Dutchclamp Cable Clamps

SE Types

Dutchclamp® SE Cable Clamps are specially designed for short circuit resistant fastening of single or multi-core medium and high voltage cables. SE types are available in 7 models and suitable for cables with a diameter from 15mm to 170mm.

Features:

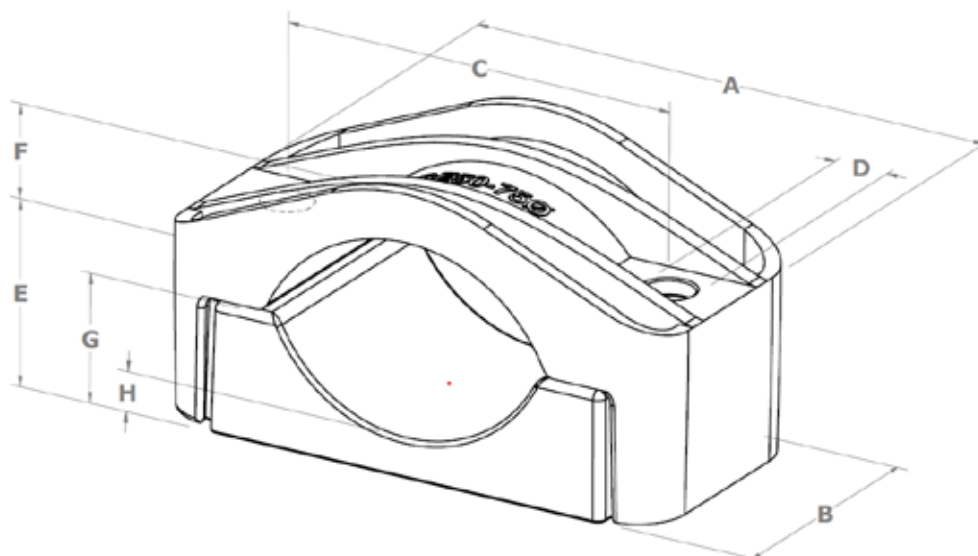
- Resistant to short-circuit currents up to 202Ka
- Resistant to oils, fats, aggressive chemicals, frost, heat, UV, ozone, salt, moisture, and acids
- Self-extinguishing V-0 (UL94), Halogen free
- Temperature range from -40°C to 125°C (225°C momentarily)
- Coloured black
- No magnetism/conductivity
- Custom mounting available
- Fastening materials can be supplied to size
- No oxidation/corrosion
- No sharp angles
- Recyclable
- Lifetime warranty
- Certified in accordance with NEN-EN-IEC 61914:2009



Clamp Inserts, ordered separately
Part No. DCLI604 - Thickness 5mm

Dimensions mm									
Part No.	Cable Dia mm	A	B	C	D	E	F	G	H
DCLSE1526	15 - 26	77	45	50	10	26 - 42	4	17	8
DCLSE2638	26 - 38	92	60	60	12	33 - 49	7	18	7
DCLSE3652	36 - 52	105	60	75	12	39 - 55	15	23	8
DCLSE5075	50 - 75	126	60	95	12	46 - 71	22	30	9
DCLSE75100	75 - 100	200	80	150	15	70 - 95	32	45	10
DCLSE100135	100 - 135	225	85	175	15	85 - 120	43	58	10
DCLSE135170	135 - 170	260	90	210	15	133 - 169	62	90	25

SPECIFICATIONS



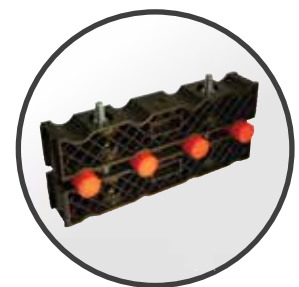
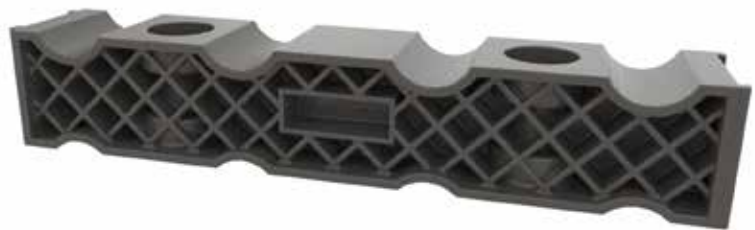
Dutchclamp Cable Clamps

IM Types

Dutchclamp® IM Cable Blocks are specially designed for short circuit resistant and safe fastening of single or multi-core medium and high voltage cables. IM types are available in 2 models and suitable for cables with a diameter from 12mm to 32mm and 32mm to 48mm. They can be coupled to each other laterally by means of a dovetail joint and are stackable.

Features:

- Resistant to short-circuit currents/forces
- Resistant to oils, fats, aggressive chemicals, frost, heat, UV, ozone, salt, moisture, and acids
- Self-extinguishing V-0 (UL94), Halogen free
- Temperature range from -40°C to 125°C (225°C momentarily)
- Coloured black
- No magnetism/conductivity
- Custom mounting available
- Fastening materials can be supplied to size
- No oxidation/corrosion
- No sharp angles
- Recyclable
- Stackable
- Lifetime warranty
- Certified in accordance with NEN-EN-IEC 61914:2009

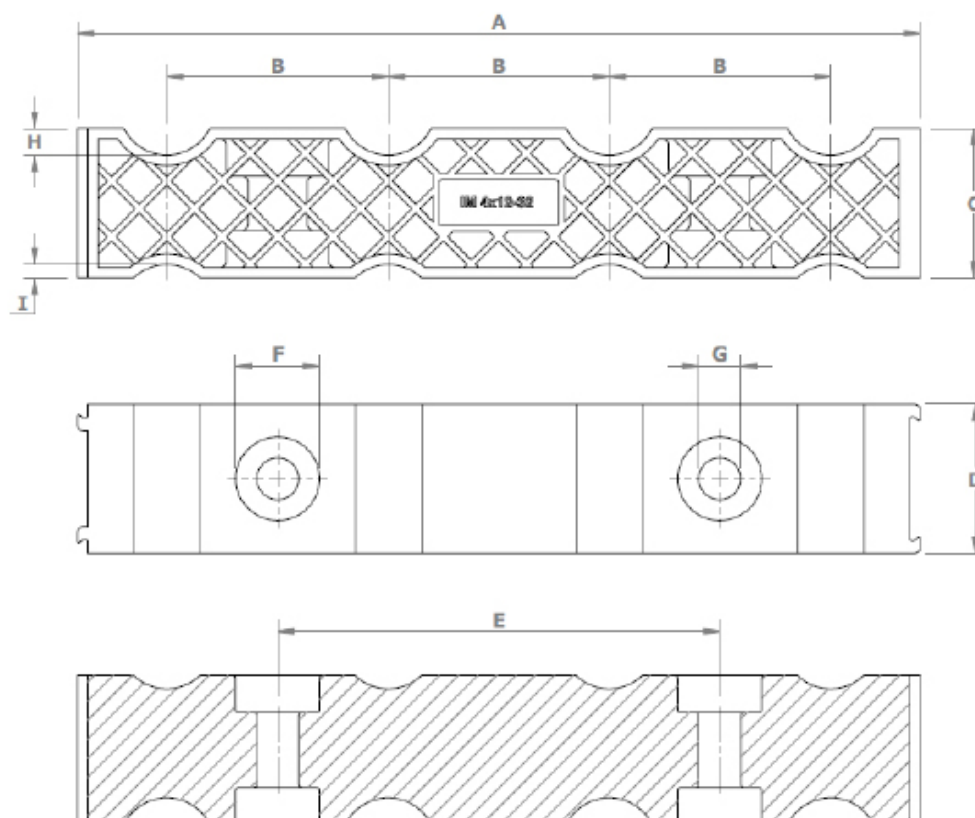


IM Type sold in pairs

Dimensions mm										
Part No.	Cable Dia mm	A	B	C	D	E	F	G	H	I
DCLFX1232	4 x 12 - 32	280	74	50	50	147	28	14	9	4.5
DCLFX3248	4 x 32 - 48	345	85	65	50	170	25	18	18	10

*Other sizes available on request, please contact the ECL team.

i SPECIFICATIONS



Dutchclamp Cable Clamps

Triple Types

Dutchclamp® Triple Cable Clamps are specially designed for short circuit resistant fastening of cables in trefoil applications. Triple types are available in 6 models and suitable for cables with a diameter from 27mm to 150mm.

Features:

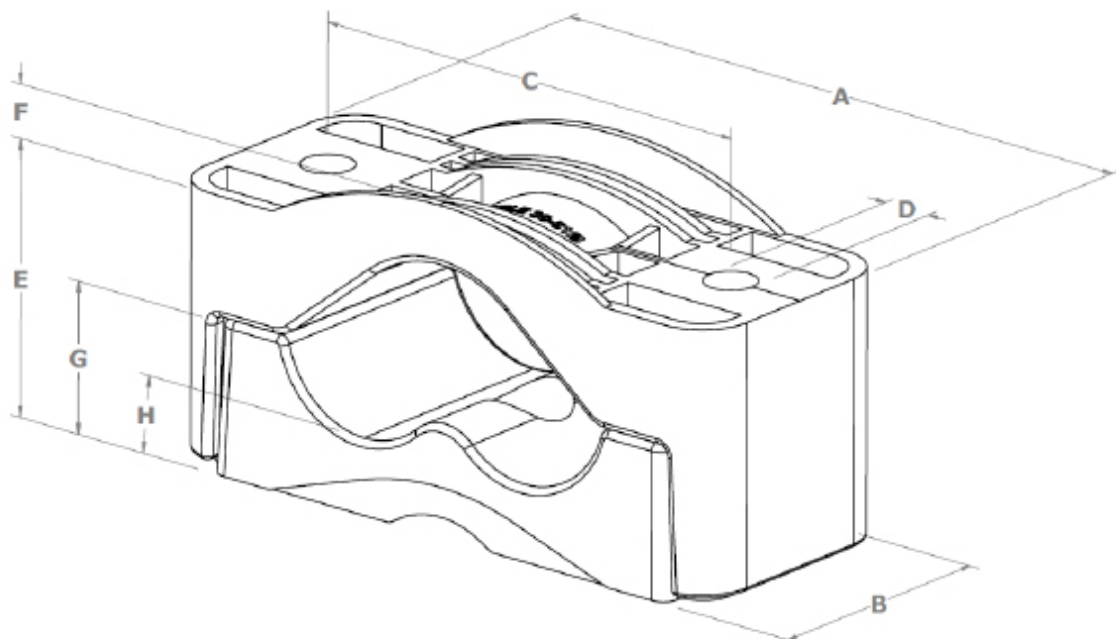
- Resistant to short-circuit currents up to 150Ka
- Resistant to oils, fats, aggressive chemicals, frost, heat, UV, ozone, salt, moisture, and acids
- Self-extinguishing V-0 (UL94), Halogen free
- Temperature range from -40°C to 125°C (225°C momentarily)
- Coloured black
- No magnetism/conductivity
- Custom mounting available
- Fastening materials can be supplied to size
- No oxidation/corrosion
- No sharp angles
- Recyclable
- Stackable
- Lifetime warranty
- Certified in accordance with NEN-EN-IEC 61914:2009



Clamp Inserts, ordered separately
Part No. DCLI604 - Thickness 5mm

Dimensions mm									
Part No.	Cable Dia mm	A	B	C	D	E	F	G	H
DCLTR2738	3 x 27 - 38	180	75	125	15.5	65	12	35	16.5
DCLTR3851	3 x 38 - 51	195	80	145	15.5	84	16	45	20
DCLTR5169	3 x 51 - 69	220	85	170	15.5	109	21	58	26
DCLTR6990	3 x 69 - 90	252	90	215	15.5	135	29	72	30
DCLTR90118	3 x 90 - 118	321	100	270	15.5	180	27	89	33
DCLTR118150	3 x 118 - 150	400	110	340	15.5	211	37	110	75

SPECIFICATIONS



Dutchclamp Cable Clamps

SEG Types

Dutchclamp® SEG Cable Clamps are specially designed for short circuit resistant fastening of single or multi-core medium and high voltage cables. SEG Types are available in 2 models and suitable for cables with a diameter from 26mm to 50mm (SEG 26-50) and 50mm to 80mm (SEG 50-80).

Features:

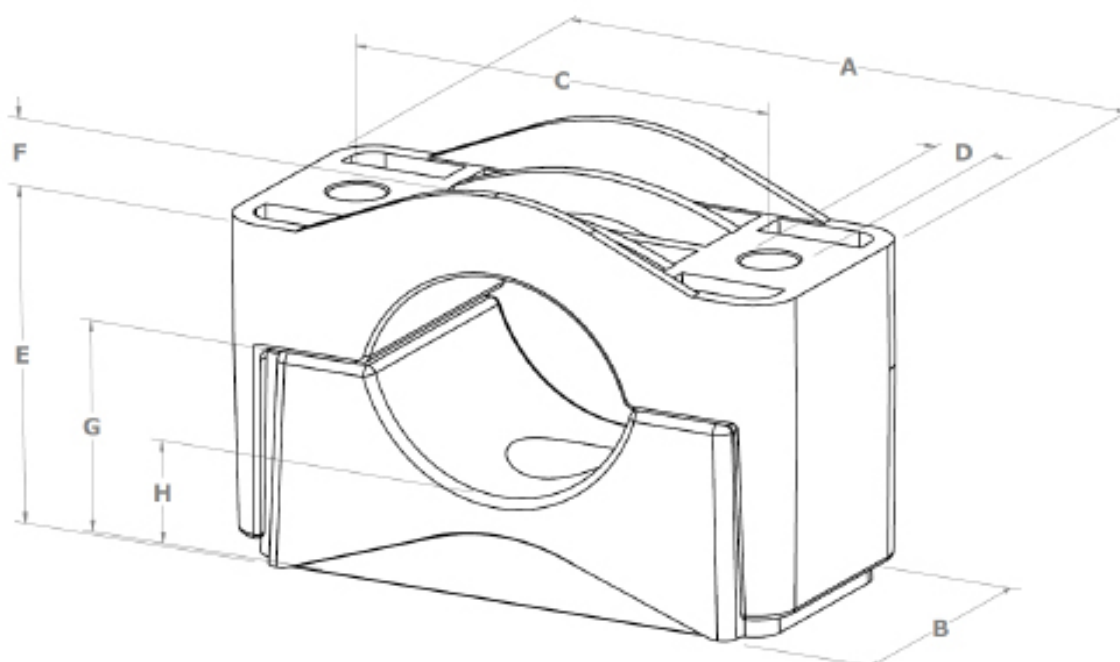
- Resistant to oils, fats, aggressive chemicals, frost, heat, UV, ozone, salt, moisture, and acids
- Stackable
- Provided with an extra centre hole for mounting with 1 bolt
- Self-extinguishing V-0 (UL94), Halogen free.
- Temperature range from -40°C to 125°C (225°C momentarily)
- Coloured black
- No magnetism/conductivity
- Custom mounting available
- Fastening materials can be supplied to size
- No oxidation/corrosion
- No sharp angles
- Recyclable
- Lifetime warranty
- Certified in accordance with NEN-EN-IEC 61914:2009



Clamp Inserts, ordered separately
Part No. DCLI604 - Thickness 5mm

Part No.	Cable Dia mm	Dimensions mm							
		A	B	C	D	E	F	G	H
DCLSEG2650	26 - 51	111	60	76	12.5	55.5-79.5	11.5	36	24
DCLSEG5080	50 - 81	135	60	100	12.5	78.5-108	15.5	47	23

SPECIFICATIONS

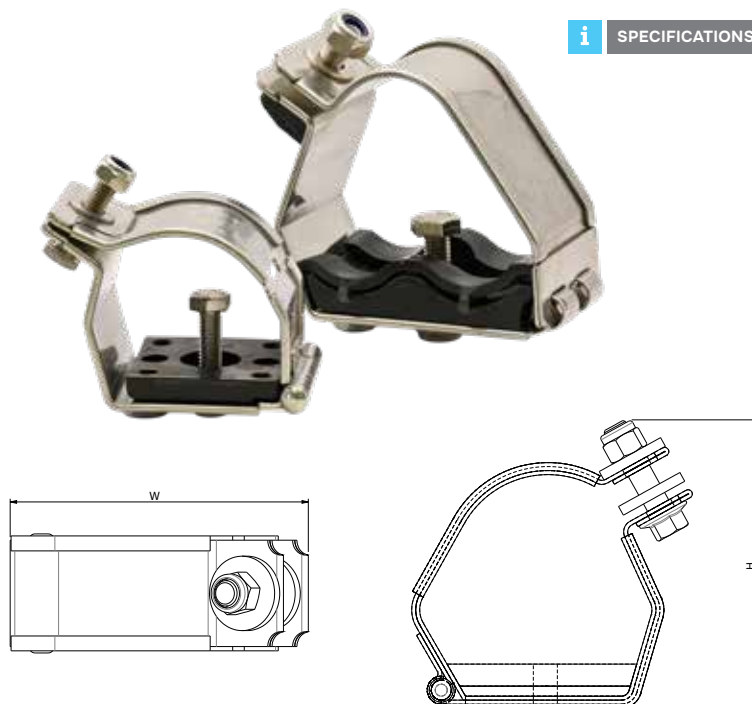


Stainless Steel Cable Clamps

Used for the harshest environments. Manufactured from 316 grade stainless steel and available in multiple sizes ranges for both trefoil and single cable configurations. Supplied with a Low Smoke Halogen Free cable pad to both position the cable and provide padding. Fixed using a single centre mounted bolt. Designed to IEC Standard 61914 and Type Tested and certified to DNV approval.

Features:

- Frame: Marine Grade 316 Stainless Steel
- Clamp Hardware: Stainless Steel 316 Grade bolt and nut
- Cleat Material: Composite
- Clamp Pad: Low Smoke Halogen free
- Mounting Bolt: Stainless Steel, provided with the clamp
- Temp rating: -40°C to +120°C
- Approval: DNV, ABS



Single Type			
Part No:	Cable Dia mm	Dimensions mm	
		H	W
DCFS2832	28-32	69	56
DCFS3034	30-34	71	58
DCFS3236	32-36	73	60
DCFS3438	34-38	74	63
DCFS3640	36-40	74	65
DCFS3842	38-42	76	66
DCFS4044	40-44	79	68
DCFS4246	42-46	81	71
DCFS4448	44-48	82	73
DCFS4650	46-50	84	75
DCFS4852	48-52	86	77
DCFS5054	50-54	87	79
DCFS5256	52-56	88	80
DCFS5458	54-58	90	81
DCFS5660	56-60	91	83
DCFS5862	58-62	93	84
DCFS6064	60-64	95	85
DCFS6266	62-66	96	87
DCFS6468	64-68	98	88
DCFS6670	66-70	100	91
DCFS6872	68-72	101	94
DCFS7074	70-74	103	95
DCFS7276	72-76	105	101
DCFS7478	74-78	107	104
DCFS7680	76-80	109	105
DCFS7882	78-82	110	107
DCFS8084	80-84	111	110
DCFS8286	82-86	113	111
DCFS8488	84-88	115	113
DCFS8690	86-90	116	116
DCFS8892	88-92	118	117
DCFS9094	90-94	120	119
DCFS9296	92-96	122	121
DCFS94106	94-106	135	133

Triple Type			
Part No:	Cable Dia mm	Dimensions mm	
		H	W
DCFT1723	17-23	75	75
DCFT1925	19-25	78	78
DCFT2329	23-29	84	84
DCFT2531	25-31	87	87
DCFT2733	27-33	90	90
DCFT2935	29-35	93	93
DCFT3238	32-38	97.5	97.5
DCFT3541	35-41	102	102
DCFT3844	38-44	106	106
DCFT4248	42-48	112	112
DCFT4551	45-51	116.5	116.5
DCFT4753	47-53	119.5	119.5
DCFT4955	49-55	122.5	122.5
DCFT5157	51-57	125.5	125.5
DCFT5359	53-59	128.5	128.5
DCFT5561	55-61	131.5	131.5
DCFT5763	57-63	134.5	134.5
DCFT5965	59-65	137	137
DCFT6167	61-67	141.5	141.5
DCFT6369	63-69	144.5	144.5
DCFT6571	65-71	147.5	147.5
DCFT6773	67-73	150.5	150.5
DCFT6975	69-75	153.5	153.5
DCFT7177	71-77	156.5	156.5
DCFT7379	73-79	159.5	159.5
DCFT7581	75-81	163.5	163.5
DCFT7783	77-83	167	167
DCFT7985	79-85	170.5	170.5
DCFT8187	81-87	174.5	174.5
DCFT8389	83-89	178	178
DCFT8692	86-92	184	184
DCFT8896	88-96	193	193
DCFT9199	91-99	199	199
DCFT96103	96-103	206	206

Larger sizes available on request, please contact the ECL team.



ECL
CABLE
ACCESSORIES

Cable Ties

Nylon Cable Ties

Injection moulded single piece construction. Manufactured from UL approved, Nylon 6/6, and available in both natural and black (UV stabilised). Notable features are bent tips, easy access ends for fast and secure installation, and a working temperature of -40°C to 85°C. Designed to comply with MIL-Spec M-20693B, and tensile strengths which meet or exceed MIL-S 23190.

Material:	Nylon 6.6
Working Temp.:	-40°C to 85°C Minimum Installation Temperature -10°C
Flammability:	UL 94V-2
Humidity absorption:	2.7% - 2.8%
Other Properties:	UV-resistant Low Smoke Halogen free Non-toxic



TUV approval: EN62275:2015
UL: File E258630 based newest standard UL62275

Part No.	Pack size	Length mm	Colour	Tensile Strength kg	Width mm	Maximum Diameter
Standard Duty						
ICT15033NC	100	150	Natural	18	3.3	38
ICT15033NK	1000	150	Natural	18	3.3	38
ICT15033BC	100	150	Black	18	3.3	38
ICT15033BK	1000	150	Black	18	3.3	38
ICT20036NC	100	200	Natural	18	3.6	54
ICT20036NK	1000	200	Natural	18	3.6	54
ICT20036BC	100	200	Black	18	3.6	54
ICT20036BK	1000	200	Black	18	3.6	54
ICT30036NC	100	290	Natural	18	3.6	82
ICT30036NK	1000	290	Natural	18	3.6	82
ICT30036BC	100	290	Black	18	3.6	82
ICT30036BK	1000	290	Black	18	3.6	82
ICT20048NC	100	200	Natural	22	4.8	54
ICT20048NK	1000	200	Natural	22	4.8	54
ICT20048BC	100	200	Black	22	4.8	54
ICT20048BK	1000	200	Black	22	4.8	54
ICT29048NC	100	288	Natural	22	4.8	81
ICT29048NK	1000	288	Natural	22	4.8	81
ICT29048BC	100	288	Black	22	4.8	81
ICT29048BK	1000	288	Black	22	4.8	81
ICT37048NI	50	370	Natural	22	4.8	106
ICT37048BI	50	370	Black	22	4.8	106
ICT43048NI	50	430	Natural	22	4.8	115
ICT43048BI	50	430	Black	22	4.8	115
Light Duty						
ICT10025NC	100	100	Natural	8	2.5	21
ICT10025NK	1000	100	Natural	8	2.5	21
ICT10025BC	100	100	Black	8	2.5	21
ICT10025BK	1000	100	Black	8	2.5	21
ICT16025NC	100	160	Natural	8	2.5	40
ICT16025NK	1000	160	Natural	8	2.5	40
ICT16025BC	100	160	Black	8	2.5	40
ICT16025BK	1000	160	Black	8	2.5	40
ICT20025NC	100	200	Natural	8	2.5	50
ICT20025NK	1000	200	Natural	8	2.5	50
ICT20025BC	100	200	Black	8	2.5	50
ICT20025BK	1000	200	Black	8	2.5	50
Heavy Duty						
ICT29076NI	50	290	Natural	54	7.6	82
ICT29076BI	50	290	Black	54	7.6	82
ICT37076NI	50	370	Natural	54	7.6	106
ICT37076BI	50	370	Black	54	7.6	106
ICT54076BD	25	540	Black	54	7.6	160
ICT43090ND	25	430	Natural	79	8.8	115
ICT43090BD	25	430	Black	79	8.8	115
ICT77090ND	25	770	Natural	79	8.8	220
ICT77090BD	25	770	Black	79	8.8	220
ICT120090ND	25	1200	Natural	79	8.8	367
ICT120090BD	25	1200	Black	79	8.8	367
Extra Heavy Duty						
ICT60012ND	25	618	Natural	114	12.4	181
ICT60012BD	25	618	Black	114	12.4	181

Stainless Steel Cable Ties - Uncoated

Used in harsh environments, where vibration, radiation, corrosion and extreme temperatures are present. Notable advantages are operational safety, durability and ease of use through high loop tensile strength and simplicity of threading.

Material: Stainless Steel 316

Working Temp.: -80°C to 538°C

Flammability: Fireproof

Other Properties: UV-resistant



Part No.	Length mm	Width mm	Maximum Dia mm	Tensile Strength kg	Pack size
ICTSS20046	200	4.6	50	102	100
ICTSS2008	200	8	50	226	100
ICTSS35046	350	4.6	89	102	100
ICTSS3508	350	8	89	226	100
ICTSS55046	550	4.6	128	102	100
ICTSS5208	550	8	128	226	50

*Other sizes available on request, please contact the ECL team.

Stainless Steel Cable Ties - Coated

Coated with non-toxic, halogen free polyester coating
Prevents the corrosion between dissimilar materials.

Material: Stainless Steel Type 316

Working Temp.: -80°C to 150°C

Flammability: Fireproof

Other Properties: UV-resistant
Halogen free
Non-toxic



Part No.	Length mm	Width mm	Maximum Dia mm	Tensile Strength kg	Pack size
ICTSSNC20046	200	4.6	50	90	100
ICTSSNC2008	200	8	50	112	100
ICTSSNC35046	350	4.6	89	90	100
ICTSSNC3608	350	8	89	163	100
ICTSSNC45046	450	4.6	115	72	50
ICTSSNC5208	550	8	141	163	100
ICTSSNC55046	550	4.6	141	72	50

Other sizes available on request, please contact the ECL team.

Cable Tie Gun



Part No.	Description
CTGSS	Cable Tie Gun - Stainless Steel Cable Ties

Barb Lock Cable Ties

- Material:

Nylon 66
- Working Temp.:

-40°C to 8°C
Minimum Installation Temperature -10°C
- Flammability:

UL 94V-2
- Other Properties:

Halogen Free
UV-resistant
Stainless Steel Locking Barb
Available in both natural and black



UL and Lloyds Approved and ROHS Compliant.



Part No.	Pack size	Colour	Width mm	Length mm	Tensile Strength kg	Maximum Diameter mm
ICTBL10224BC	100	Black	2.4	102	8	23
ICTBL15536BC	100	Black	3.6	155	18	35
ICTBL18648BC	100	Black	4.8	186	22.6	45
ICTBL28436BC	100	Black	3.6	284	18	80
ICTBL29548BC	100	Black	4.8	295	22.5	79
ICTBL36148BC	100	Black	4.8	361	22.6	100
ICTBL3508BI	50	Black	8	350	50	92

Larger pack sizes and natural colour available on request, please contact the ECL team.





 **ECL**
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Heatshrink

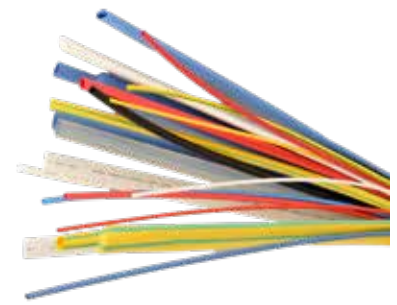
Thin Wall Heatshrink

Technical Data:

- Rated Voltage: 600V
- Dielectric Strength: 15kV/mm
- Tensile Strength: 10.4Mpa
- Shrink Ratio 2:1
- Flame retardant

Operational Parameters

- Operating Temperature -55°C to 125°C
- Shrink Temperature: 120°C
- Longitudinal shrinkage: less than 8%
- UL recognised to standard 224
- Zero halogen
- RoHS compliant



Sample Product Codes:

Lengths: TWHS20R (Red)

Reels: TWHS20BLR (Blue Reel)

Note: Brown and Grey available on request.

Part No.	Size mm	Maximum Internal Diameter mm	Internal Diameter Recovered mm	Standard Length mm	Reel/Spool Length m	Red (R)	White (WH)	Blue (BL)	Clear (CL)	Black (BLK)	Green/Yellow (GN)
TWHS1.5	1.5	2	0.85	1,200	200	●	○	●	○	●	●
TWHS2.5	2.5	3	1.3	1,200	200	●	○	●	○	●	●
TWHS3.5	3.5	4	1.8	1,200	200	●	○	●	○	●	●
TWHS5	5	5.5	2.5	1,200	100	●	○	●	○	●	●
TWHS7	7	7.5	3.5	1,200	100	●	○	●	○	●	●
TWHS10	10	10.5	5	1,200	100	●	○	●	○	●	●
TWHS13	13	13.5	6.5	1,200	100	●	○	●	○	●	●
TWHS20	20	21	10	1,200	100	●	○	●	○	●	●
TWHS25	25	26	12.5	1,200	50	●	○	●	○	●	●
TWHS40	40	41.5	20	1,200	50	●	○	●	○	●	●
TWHS50	50	50	25	1,200	25	●	○	●	○	●	●
TWHS80	80	80	41	1,200	25	●	○	●	○	●	●
TWHS100	100	100	51	1,200	25	●	○	●	○	●	●

Dual Wall Glue Lined Heatshrink

Features:

- 3:1 shrink ratio
- Longitudinal shrink ratio: $\leq \pm 8\%$
- Outer jacket flame retardant, inner adhesive self-extinguished
- Super sealing against water, moisture or other contaminants
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 120°C



Part No.	Size mm	Maximum Internal Diameter mm	Internal Diameter Recovered mm
DWSH3/1	3	3	1
DWSH4.8/1.5	4.8	4.8	1.5
DWSH6/2	6	6	2
DWSH9/3	9	9	3
DWSH12/4	12	12	4
DWSH19/6	19	19	6
DWSH24/8	24	24	8
DWSH30/10	30	30	10
DWSH40/13	40	40	13
DWSH50/19	50	50	19

Heavy Wall Glue Lined Heatshrink

- Features:**
- Operating temperature: -55°C to 110°C
 - Minimum full shrinkage temperature: 125°C
 - Halogen-free environmental protection
 - High strength, resistance to mechanical damage
 - Shrink ratio: 3:1 & 4:1
 - Other colours available on request



Part No.	Size mm	Maximum Internal Diameter mm	Internal Diameter Recovered mm
HWT9	9	9	3
HWT13	13	13	4
HWT16	16	16	5
HWT22	22	20	6
HWT33	33	33	9
HWT45	45	45	13
HWT55	55	55	16
HWT75	75	75	22
HWT85	85	85	25
HWT100	100	100	30
HWT115	115	115	34
HWT140	140	140	42
HWT160	160	160	50

Heatshrink Wrap Around Joints

HWRZ is a heat shrinkable wrap around repair sleeve used for repairing damaged cable over sheaths on various types of cable. It provides excellent corrosion protection; abrasion UV and weather resistance also make it ideal for LV cable jointing outer protection.

- Features:**
- Quick and easy installation
 - Protection against mechanical stress
 - Sleeve and channel can be cut to suit shorter applications
 - For insulation on low voltage cable up to 1000V
 - Hot melt adhesive forms a durable, moisture resistant seal
 - Fits a wide range of cable sizes



Part No.	Description	Application Range	Length
HWRZ42105	Wrap Around Joint 42-10mm	10-42	500mm
HWRZ55135	Wrap Around Joint 55-13mm	13-54	500mm
HWRZ55131	Wrap Around Joint 55-13mm	13-55	1.0m
HWRZ85201	Wrap Around Joint 85-20mm	20-85	1.0m
HWRZ108271	Wrap Around Joint 108-27mm	27-108	1.0m
HWRZ136301	Wrap Around Joint 136-30mm	30-136	1.0m
HWRZ155501	Wrap Around Joint 150-50mm	50-155	1.0m

Heatshrink Breakout Boots

- Features:**
- Cross linked polyolefin
 - UV and weather resistant
 - Available for 2 to 5 cores
 - Excellent sealing properties
 - Adhesive lined
 - Operating temp -55°C to 110°C
 - RoHS Compliant
 - Standard colour black



Part No.	Length mm	Fingers	Body Diameter Expanded mm	Body Diameter Recovered mm	Core Diameter Expanded mm	Core Diameter Recovered mm	Suggested Cable Size
2 WAY							
HSBB23310	93	2	30	12	9	3.5	4-35mm ²
HSBB26022	118	2	60	23	25	7.5	35-150mm ²
3 WAY							
HSBB32885	70	3	28	8.5	12	2.5	2.5-10mm ²
HSBB33814	98	3	38	17	14	4.5	4-35mm ²
HSBB36022	165	3	60	25	25	8	50-150mm ²
HSBB38033	185	3	80	38	35	11	185-300mm ²
4 WAY							
HSBB43814	105	4	42	15	14	3.5	6-35mm ²
HSBB45525	130	4	55	21	20	5	35-95mm ²
HSBB47222	175	4	75	26	28	7	95-185mm ²
HSBB410033	198	4	102	47	38	12	185-300mm ²
5 WAY							
HSBB54019	98	5	40	19	13	4	10-25mm ²
HSBB55524	155	5	55	24	18	5	95-95mm ²

Heatshrink End Caps

- Features:**
- Cross linked polyolefin
 - UV and weather resistant
 - Excellent sealing properties adhesive lined
 - Operating temp -55°C-110°C
 - RoHS Compliant
 - Standard colour black



Part No.	Maximum Internal Diameter mm	Internal Diameter Recovered mm	Standard Length mm
HSC1204	12	4	55
HSC2509	25	8.5	68
HSC3516	35	16	83
HSC4015	40	15	90
HSC5526	55	26	103
HSC7838	75	36	130
HSC10057	100	52	155
HSC12057	120	57	155

Pressure Relief/Degassing End Caps

Pressure Relief End Caps have an inbuilt relief/degassing valve that vents gas buildup above 3-5PSI.

Part No.	Maximum Internal Diameter mm	Internal Diameter Recovered mm	Standard Length mm
HSC4015PR	40	15	90
HSC5525PR	55	26	120
HSC7535PR	75	35	130
HSC10045PR	100	45	160

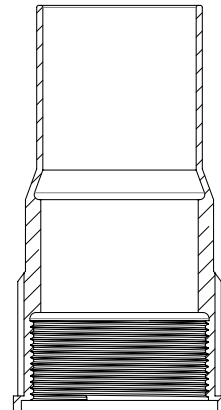
Heatshrink Cable Glands



GHSC series of Heat Shrinkable Cable Glands were developed to provide a cost effective method of providing a weatherproof seal on a variety of cables. The glands are manufactured in accordance with MIL specifications and provide a flame retarded adhesive lined body along with a male threaded entry part to enable fixture to the gland plate.

Features

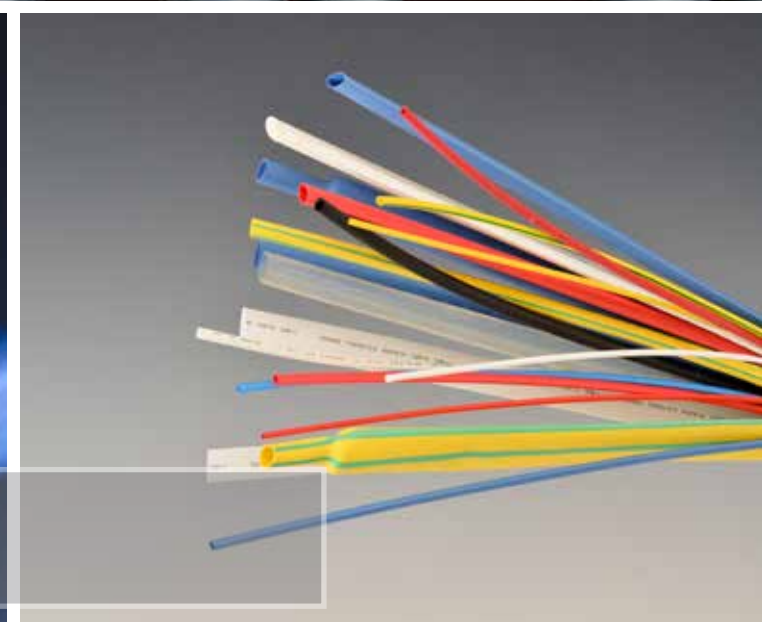
- Fast shrinkage with the application of heat (120°C)
- Continuous operating temperature suitable for a broad spectrum of practical uses
- Meets or exceeds standard specifications for Cable Entry Seals
- LSZH or Flame retardant with a flammability rating of non-burning
- Excellent dielectric properties suitable as electrical insulation
- Low water absorption qualities for providing a flexible moisture proof barrier
- Good low temperature flexibility with no cracking after prolonged exposure to cold
- Excellent heat resistance with no dripping or flowing, Thermoset Materials
- Very high tensile strength flexible rubber like synthetic compounds



Part No.	Cable O/D Min mm	Cable O/D Max mm	Gland Plate Thickness Max mm	Overall Length (recovered) mm	Entry Hole Size mm
GHSC1	4	12	6	95	26
GHSC2	7	17	6	95	26
GHSC3	13	26	6	100	35
GHSC4	19	38	6	130	51
GHSC4s	19	51	6	170	60
GHSC5	36	70	6	200	88
GHSC6X	40	91	6	340	110

Larger sizes available on request, please contact the ECL team.





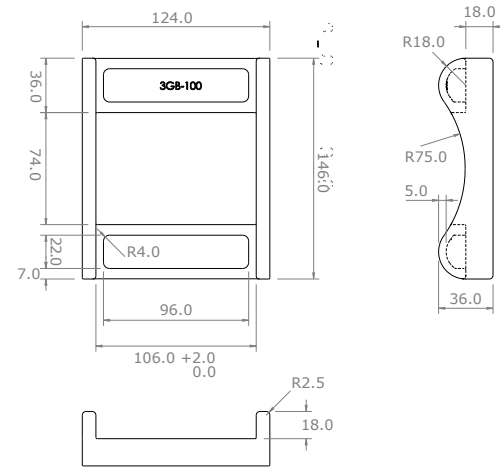


Overhead Construction

Crossarm Gain Blocks

Used to secure wooden crossarms to the curvature of the wooden pole.

Material: Cast Aluminium

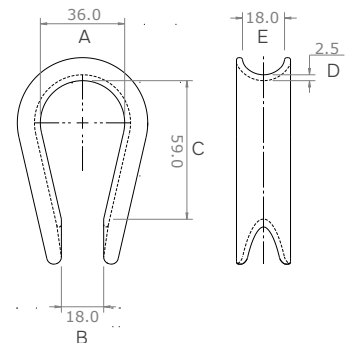


Part No.	Description
3GB-100	For crossarm 100mm
3GB-125	For crossarm 125mm

Open Guy Thimbles

Added to the eye to protect the rope, providing extra support to the wire. The guy thimble guides the eye of the wire, making a natural curve.

Material: Galvanised Forged Steel



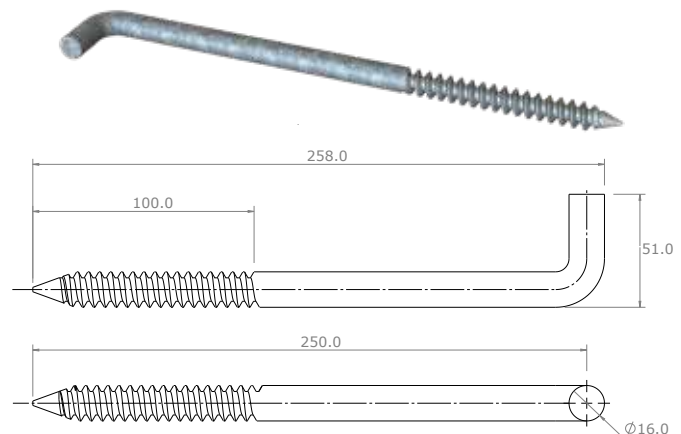
Part No.	Dimensions mm				
	A	B	C	D	E
3OGT12	30	14	50	2.5	13
3OGT16	36	18	59	3	18
3OGT20	47	22	70	3	21
3OGT22	54	25	89	3.2	23

Pole Steps

Driven into the poles to be used as steps for climbing and descending the poles.

Material: Galvanised Steel

Part No.	Description
3PS16-250-S	250mm Long, Screw in Style

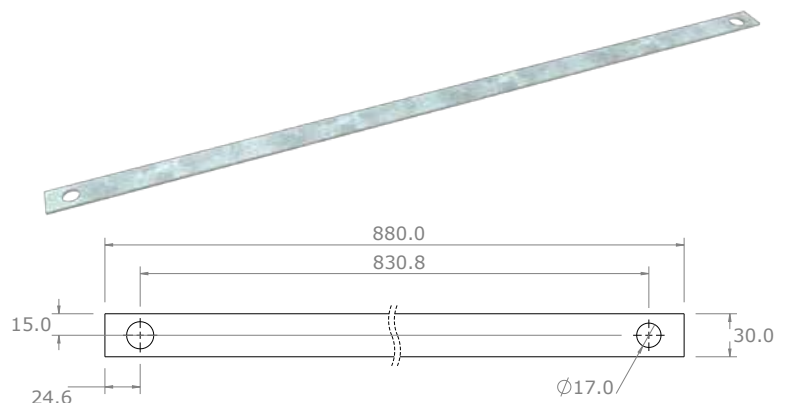


Crossarm Braces

A durable and an inexpensive means of aligning and supporting crossarms.

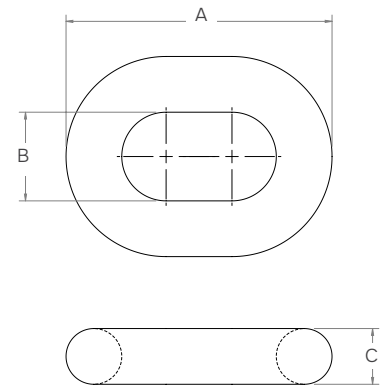
Sizes available on request, please contact the ECL team to discuss your requirements.

Material: Galvanised Forged Steel



Chain Links

Material: Galvanised Forged Steel

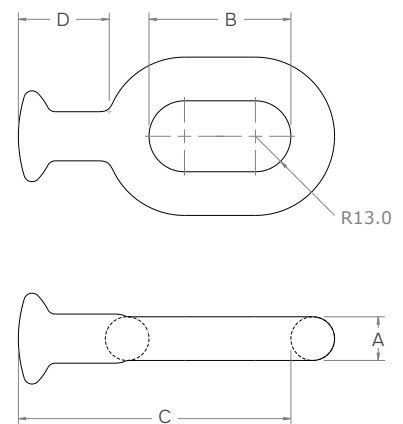


Dimensions mm				
Part No.	MFL kN	A	B	C
3L022618	320	105	35	22
3L022619	480	125	40	28

Ball Eye Links

Provides a strong, flexible support for socket type suspension insulators.

Material: Galvanised Forged Steel

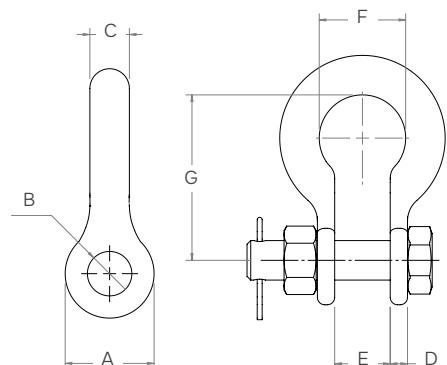


Dimensions mm					
Part No.	MFL kN	A	B	C	D
3L022044	120	16	50	100	33
3L022506	160	20	64	128	43
3L022507	300	24	80	155	47

Bow Shackles

Superior strength and durability, designed to securely connect chains to anchor points and handle heavy-duty loads with ease.

Material: Galvanised Steel

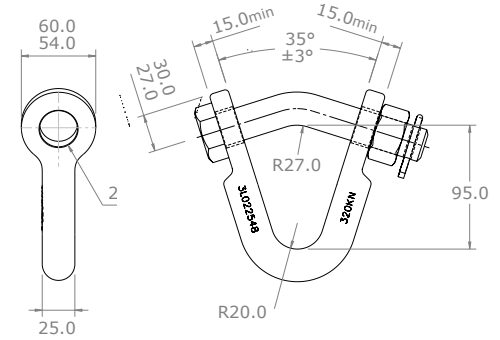


Dimensions mm								
Part No.	MFL kN	Ball & Shank (A)	Clevis E	A	B	D	F	G
3L022540	120	M16	22.5	36	18	7	34	67
3L022541	160	M20	24	48	22	12	40	76
3L022542	160	M20	36	48	22	12	40	76
3L022543	320	M24	29	60	26	15	50	90
3L022544	320	M24	36	60	26	15	55	95
3L022545	480	M30	36	70	32	18	60	110
3L022546	210	M20	29	60	22	15	50	90
3L022547	320	1 1/8 in. UNC	43	60	30	15	70	110

Vee Shackles

Provides secure fastening and easy handling, making them ideal for heavy-duty applications

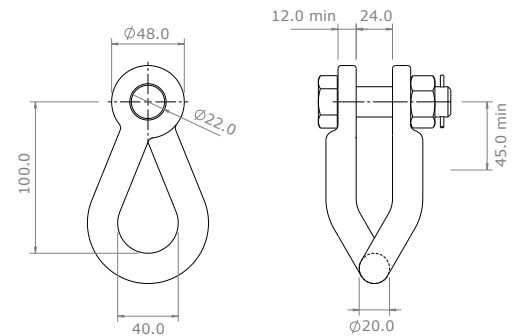
Material: Galvanised Forged Steel
Split Pin: Stainless Steel



Part No.	MFL kN	Bolt
3L022548	320	1" UNC

Twisted Shackles

Material: Galvanised Forged Steel
Split Pin: Stainless Steel

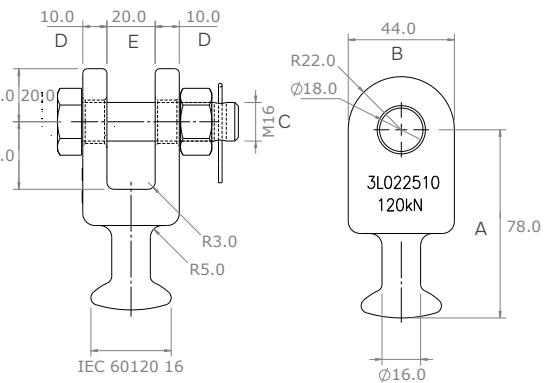


Part No.	MFL kN	Bolt	Clevis (mm)
3L022549	210	M20	24

Ball Clevis

For smooth movement and secure attachment, ensuring optimal performance and durability under demanding conditions.

Material: Galvanised Forged Steel
Split Pin: Stainless Steel

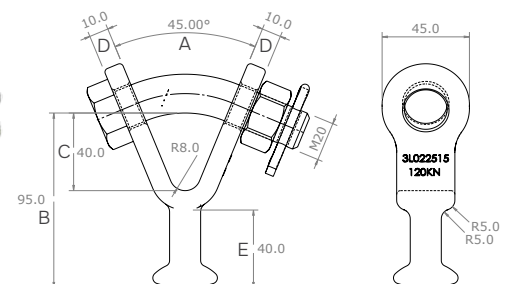


Dimensions mm							
Part No.	MFL kN	Ball & Shank	Bolt C	Clevis E	A	B	D
3L022510	129	16	M16	20	44	78	10
3L022511	120	16	M20	24	48	95	10
3L022512	160	20	M20	24	48	95	12
3L022513	300	24	M24	29	60	120	15

Ball Y Clevis

Provides a versatile and secure connection, accommodating a range of angles and movements.

Material: Galvanised Forged Steel
Split Pin: Stainless Steel

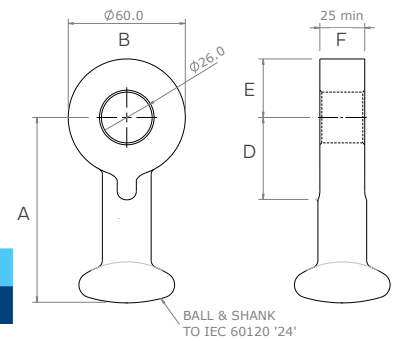


Dimensions mm								
Part No.	MFL kN	Ball & Shank	Bolt F	A	B	C	D	E
3L022515	120	16	M20	45°	95	40	10	40
3L022516	160	20	M20	50°	112	55	12	45

Ball Tongue

The ball-and-socket design allows for flexibility and ease of installation in various utility applications.

Material: Galvanised Forged Steel

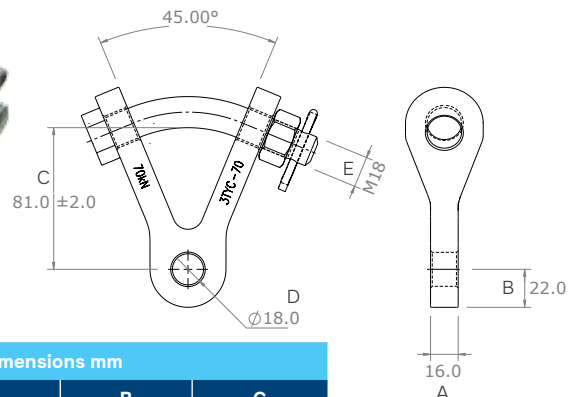


Dimensions mm							
Part No.	MFL kN	Hole (C)	A	B	D	E (min)	F
3L022517	160	22	76	48	35	24	20
3L022518	300	26	95	60	42	30	25

Y Clevis Tongues

The Y-shaped design ensures a secure fit and facilitates easy alignment.

Material: Galvanised Forged Steel
Split Pin: Stainless Steel

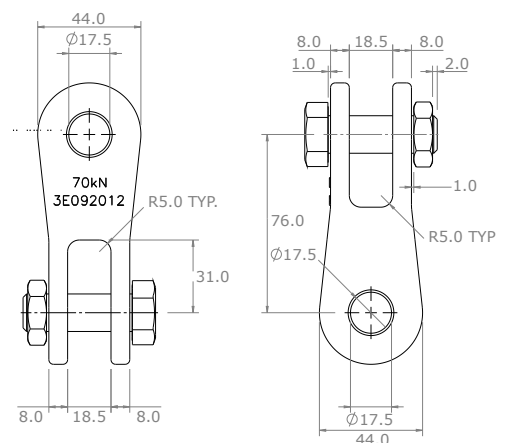


Dimensions mm						
Part No.	MFL kN	Bolt E	Hole D	A	B	C
3L022620	70	M16	18	17	22	65
3TYC-70	70	M18	18	16	22	81
3TYC-120	120	M20	18	16	22	90
3L022625	160	M20	22	20	24	65
3L022626	160	M20	22	43	23	75

Twisted Clevis Clevis

With a distinctive twisted design, offering superior load distribution and stability.

Material: Heat Treated SG Cast Iron
Protection - Hot Dip Galvanised
Humpback Split Pin - Stainless Steel

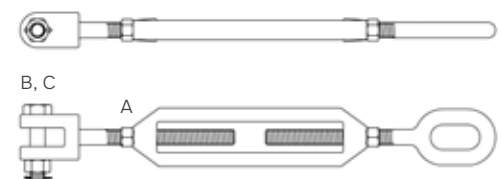


Part No.	MFL kN	Bolts
3L022616	300	M24
3L022617	210	M22 & M24
3E092012	70	M16

Turnbuckle Clevis Eye

Designed for precise tension adjustments and secure connections.

Material: Galvanised Forged Steel

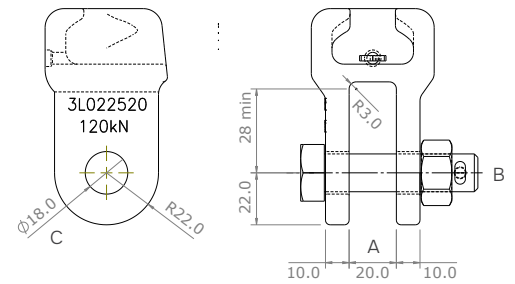


Dimensions mm				
Part No.	MFL kN	A	B	C
3L022144	160	Nut Ø24	Bolt M20	Nut M20

Socket Clevis

The ideal choice for demanding environments where strength and stability are crucial.

Material: Galvanised Steel

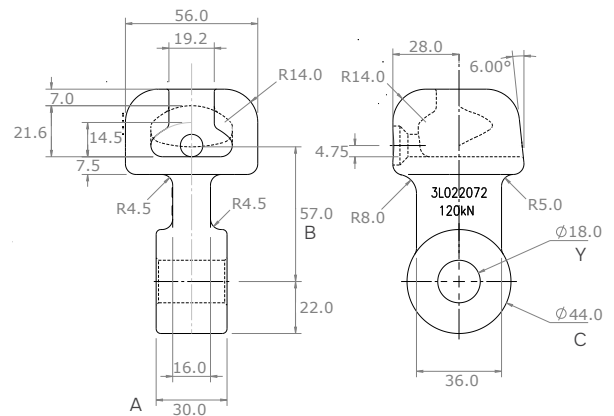


Part No.	MFL kN	Clevis A mm	Bolt B	Hole Size C mm
3L022520	120	20	M16	18
3L022079N	120	24	M16	18
3L022521	160	24	M20	22
3L022522	300	29	M24	26
3L022523	300	35	M24	26
3L022524	300	34	M30	32
3L020003	160	29	M24	26

Socket Tongue

The design ensures a snug fit and stability.

Material: Galvanised Forged Steel

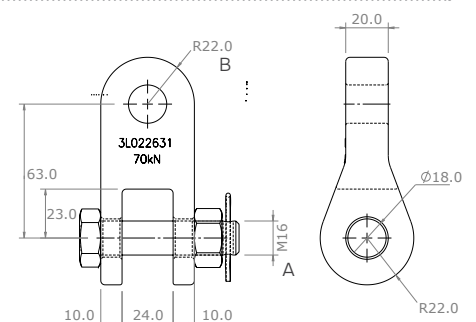


Dimensions mm					
Part No.	MFL kN	A	B	C	Hole Y
3L022072	120	30	57	R22	18
3L022074	160	43	106	R30	22
3L022075	160	66	106	R30	22
3L022077	160	40	106	R30	30
3L022525	120	18 max	57	R22	18
3L022527	160	22 max	57	R24	22
3L022528	160	32 max	57	R24	22

Clevis Tongue

Engineered for durability, the versatile shape allows for easy alignment and installation.

Material: Galvanised Forged Steel
Split Pin: Stainless Steel



Part No.	Description	MFL kN	Bolt A	Hole B
3L022533	Standard	160	M20	22
3L022536	Twisted	160	M20	22
3L022538	Twisted	70	M20	18
3L022630	Twisted	70	M16	18
3L022631	Twisted	70	M16	18
3TCT-120	Twisted	120	M16	18

Clevis Thimbles

Material: Galvanised Forged Steel
Retaining Clip/Split Pin: Stainless Steel

Part No.	MFL kN	Material
3CTHA-2600	70	Aluminium Alloy

Part No.	MFL kN	Material
3CTHAL-70	70	Galvanised Forged Steel

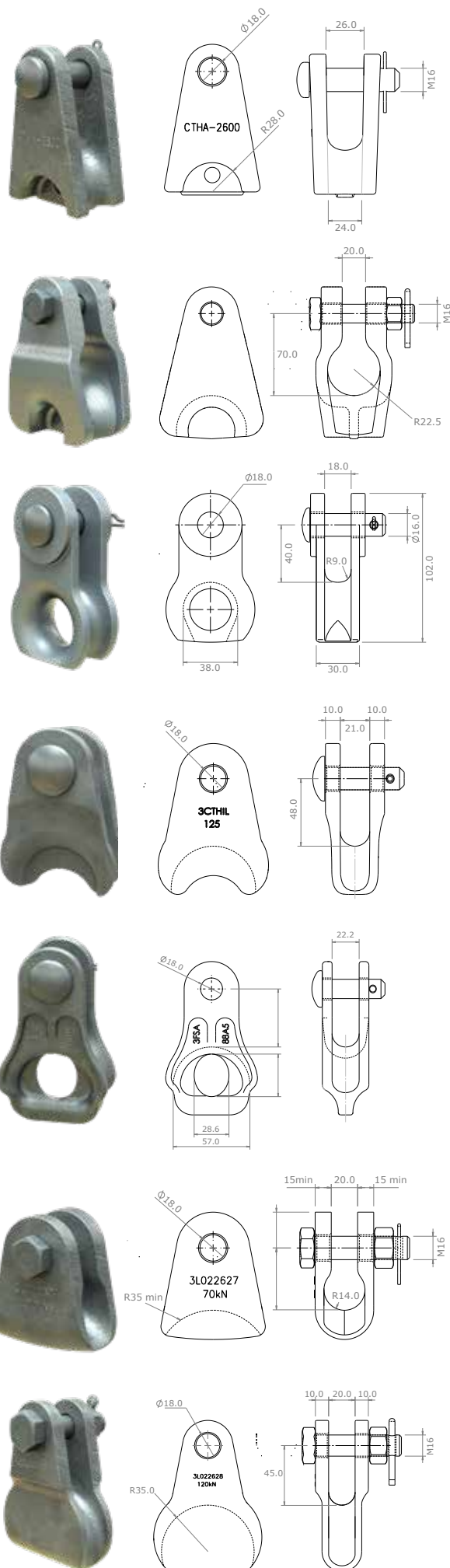
Part No.	MFL kN	Material
3CTHI-1850	70	Ductile Iron

Part No.	MFL kN	Material
3CTHIL-125	125	Ductile Iron

Part No.	MFL kN	Material
3FSA-88A-5	133	Ductile Iron

Part No.	MFL kN	Material
3L022627	70	Cast Aluminium

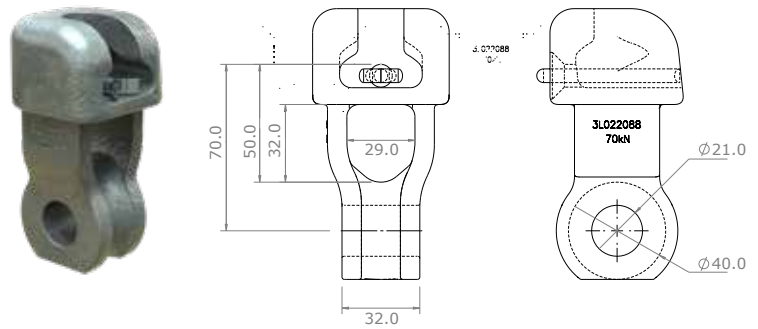
Part No.	MFL kN	Material
3L022628	120	Cast Iron



Socket Thimbles

Material: Galvanised Forged Steel
Retaining Clip: Stainless Steel

Part No.	MFL kN
3L022088	70



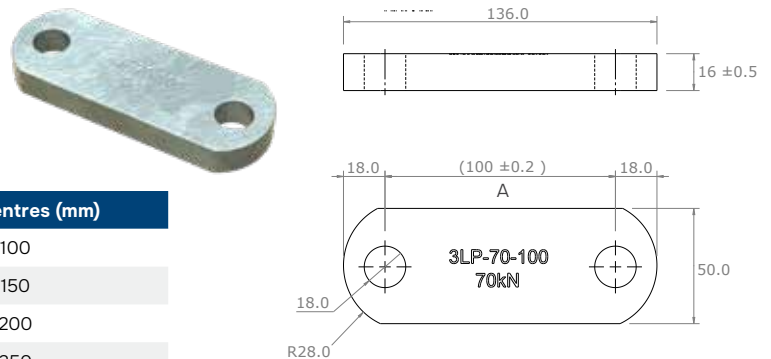
Yoke Plates

Yoke plates are available in a variety of configurations and strengths.
Please contact the ECL team to discuss your requirements.

Link Plates

Material: Galvanised Forged Steel

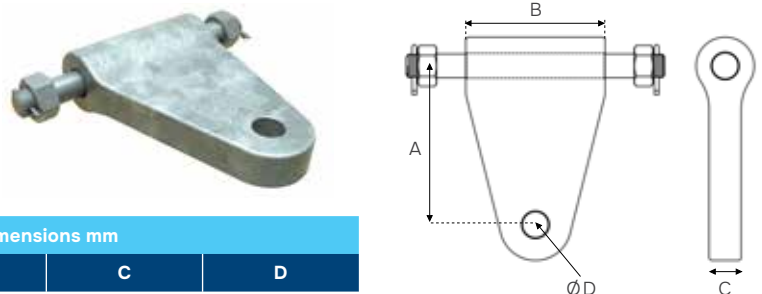
Part No.	MFL kN	Hole Centres (mm)
3LP-70-100	70	100
3LP-70-150	70	150
3LP-70-200	70	200
3LP-70-250	70	250
3LP-70-300	70	300
3LP-70-350	70	350



Swivels

Material: Galvanised Forged Steel

Part No.	MFL kN	Dimensions mm			
		A	B	C	D
3L066002P	320	160	150	32	26
3L066003B	320	160	160	32	32
3L066003P	320	160	160	32	32
3L066001	160	16	150	22	22
3L066001P	210	160	150	22	22
3L066001B	210	160	150	22	22
3L066017P	250	160	140	30	26
3L066017U	250	160	140	30	26
3L066007	320	160	150	32	30
3L066016P	320	160	140	32	26
3L066016U	320	160	146	32	26
3L066014P	320	160	198	32	26
3L066014U	320	160	198	32	26
3L066015P	210	160	130	32	26
3L066015U	210	160	130	32	26
3L066010B	210	150	160	22	22
3L066010P	210	150	160	22	22
3L066002B	320	150	150	32	26



Suspension Clamps - Aluminium

Material: Cast Aluminium
Hardware: Galvanised Steel
Split Pin: Stainless Steel



Part No.	Description	Clamp Range mm	MFL kN
3L022120	Standard	20-30	70
3L022121	Standard	11-20	70
3L022121S	Heavy Duty, for high wear earth wire	11-20	70
3L022122	Standard	30-45	160
3L022123	Standard	46-55	160
3L022124	Standard	30-45	70

Suspension Clamps - Cast Iron

Material: Galvanised Cast Iron
Hardware: Galvanised Steel
Split Pin: Stainless Steel



Part No.	Clamp Range mm	MFL kN
3DSC0616	6-16	70
3L022110	10-18	70
3L022112	18-30	120



Stockbridge Dampers

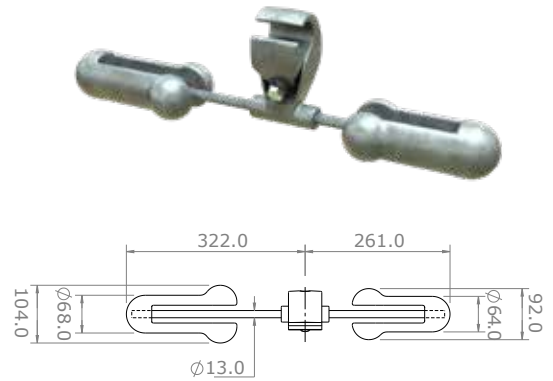
The MPS 4D range of Vibration Dampers are designed to provide the best possible protection from Aeolian vibration for conductors and earth wires (ground or shield wires). These are designed to dissipate the maximum amount of vibration energy to prevent fatigue damage to the strands of the conductors.

Compared with standard Stockbridge dampers, MPS 4D range has an asymmetric design that features four resonant frequencies, allowing greater effectiveness across a wider frequency range.

MacLean Power 4D dampers are suitable for use on all conductor and earth wire constructions including ACSR, AAC, AAAC, AAAC 1120, HDC and Galvanized and Aluminium Clad Steel (SC/GZ and SC/AC) construction, and sizes are available to cover the range of sizes from 7.5mm to 45mm.

Note: Named Conductors Reference Table, refer end of catalogue.

Material: Galvanised Steel



MacLean™
POWER SYSTEMS

Part No.	Description	Clamp Range mm	Messenger Wire	Conductor Size
2L044600	4D50 Vibration Damper	39.3 - 43	Galvanised Steel	ACSR Chukar
2L044600S	4D50 Vibration Damper	39.3 - 43	Stainless Steel	ACSR Chukar
2L044601	4D50 Vibration Damper	36 - 38.4	Galvanised Steel	ACSR Moa
2L044601S	4D50 Vibration Damper	36 - 38.4	Stainless Steel	ACSR Moa
2L044602	4D50 Vibration Damper	34 - 36	Galvanised Steel	ACSR Pheasant
2L044603	4D40 Vibration Damper	27.6 - 30.5	Galvanised Steel	ACSR Zebra
2L044603SC	4D40 Vibration Damper	27.6 - 30.5	Stainless Steel	ACSR Zebra
2L044604	4D40 Vibration Damper	25.6 - 27.6	Galvanised Steel	ACSR Goat
2L044604S	4D40 Vibration Damper	25.6 - 27.6	Stainless Steel	ACSR Goat
2L044605	4D30 Vibration Damper	18 - 20.3	Galvanised Steel	ACSR Wolf
2L044605SC	4D30 Vibration Damper	18 - 20.3	Stainless Steel	ACSR Wolf
2L044607	4D20 Vibration Damper	14 - 16	Galvanised Steel	ACSR Dog; ACSR Hare; ACSR Hyena; ACSR Coyote
2L044607S	4D20 Vibration Damper	14 - 16	Stainless Steel	ACSR Dog; ACSR Hare; ACSR Hyena; ACSR Coyote
2L044608	4D20 Vibration Damper	11.5 - 14	Galvanised Steel	ACSR Pigeon; ACSR Skunk
2L044608S	4D20 Vibration Damper	11.5 - 14	Stainless Steel	ACSR Pigeon; ACSR Skunk
2L044610	4D20 Vibration Damper	9.5 - 11.5	Galvanised Steel	ACSR Mink; ACSR 3/4-3.71; SC/AC 7/3.18; SC/AC 7/3.71; SC/GZ 7/3.18; SC/GZ 7/3.68; SC/GZ 7/3.71
2L044610S	4D20 Vibration Damper	9.5 - 11.5	Stainless Steel	ACSR Mink; ACSR 3/4-3.71; SC/AC 7/3.18; SC/AC 7/3.71; SC/GZ 7/3.18; SC/GZ 7/3.68; SC/GZ 7/3.71
2L044611	4D20 Vibration Damper	7.5 - 9.5	Galvanised Steel	SC/AC 7/2.59; SC/AC 7/3.05; SC/GZ 7/2.59; SC/GZ 7/2.64; SC/GZ 7/3.05
2L044611S	4D20 Vibration Damper	7.5 - 9.5	Stainless Steel	SC/AC 7/2.59; SC/AC 7/3.05; SC/GZ 7/2.59; SC/GZ 7/2.64; SC/GZ 7/3.05
2L044612	4D30 Vibration Damper	14 - 16	Galvanised Steel	SC/GZ 19/2.87
2L044613	4D30 Vibration Damper	16 - 18	Galvanised Steel	SC/AC 19/3.26
2L044614	4D20 Vibration Damper	18 - 20.3	Galvanised Steel	AAAC Neon
2L044620	4D20 Vibration Damper with brass clamp	11.5 - 14	Galvanised Steel	Cu 19/2.34; Cu 37/1.83; Cu 19/2.57
2L044620S	4D20 Vibration Damper with brass clamp	11.5 - 14	Stainless Steel	Cu 19/2.34; Cu 37/1.83; Cu 19/2.57
2L044621	4D20 Vibration Damper with brass clamp	9.5 - 11.5	Galvanised Steel	Cu 7/3.45
2L044622	4D20 Vibration Damper with brass clamp	7.5 - 9.5	Galvanised Steel	Cu 7/2.64
2L044623	4D30 Vibration Damper with brass clamp	18 - 20.3	Galvanised Steel	Cu 37/2.62
2L044641	4D20 Vibration Damper	16 - 18	Galvanised Steel	AAAC Krypton; ACSR
2L044641SC	4D20 Vibration Damper	16 - 18	Galvanised Steel	AAAC Krypton; ACSR
2L044643	4D30 Vibration Damper	20.3 - 23.4	Galvanised Steel	AAAC Nobelium
2L044643S	4D30 Vibration Damper	20.3 - 23.4	Stainless Steel	AAAC Nobelium
2L044647	4D40 Vibration Damper	31.1 - 34	Galvanised Steel	AAAC Sulfur
2L044647S	4D40 Vibration Damper	31.1 - 34	Stainless Steel	AAAC Sulfur

Twin Spacer Dampers



Part No.	Description	Conductor Size
2L044004	460mm Twin Spacer Damper	ACSR Wolf
2L044026	460mm Twin Spacer Damper	ACSR Pheasant
2L044022	460mm Twin Spacer Damper	AAAC Nobelium
2L044011	460mm Twin Spacer Damper	AAAC Sulfur
2L044010	460mm Twin Spacer Damper	ACSR Chukar
2L044006	460mm Twin Spacer Damper	AAAC Neon
2L044005	460mm Twin Spacer Damper	ACSR Moa
2L044003	460mm Twin Spacer Damper	ACSR Goat
2L044002	460mm Twin Spacer Damper	ACSR Zebra

Triple Spacer Dampers



Part No.	Description	Conductor Size
2L044012	460mm Triplex Spacer Damper	AAAC Sulfur
2L044007	460mm Triple Spacer Damper	ACSR Moa

Twin Jumper Spacers



Part No.	Description	Conductor Size
2L044015	460mm Twin Jumper Spacer	ACSR Goat
2E092524	460mm Twin Jumper Spacer	AAC Butterfly
2L044017	460mm Twin Jumper Spacer	ACST Moa
2L044027	460mm Twin Jumper Spacer	ACSR Chukar
2L044028	460mm Twin Jumper Spacer	ACSR Wolf
2L044025	460mm Twin Jumper Spacer	ACSR Pheasant
2L044018	460mm Twin Jumper Spacer	AAAC Sulfur
2L044016	460mm Twin Jumper Spacer	ACSR Zebra
2E092522	460mm Twin Jumper Spacer	AAC Cicada

Quad Jumper Spacers

Part No.	Description	Conductor Size
2L044024	460mm Quad Jumper Spacer	ACSR Zebra
2L044023	460mm Quad Jumper Spacer	ACSR Goat
2S011018	115mm Quad Jumper Spacer	AAC Cicada



Triple Jumper Spacers

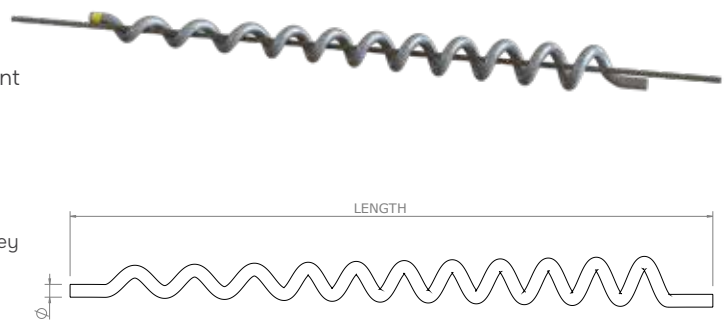
Part No.	Description	Conductor Size
2L044019	220mm Triple Jumper Spacer	AAAC Sulfur



Helical Vibration Dampers

This HVD series of spiral vibration dampers provides a simple, proven method of reducing vibration on smaller diameter conductors, shield wires, OPGW, and guy spans. Made from a solid rod of PVC plastic, spiral dampers can withstand an ambient temperature range of -15°F to 110°F.

- Features:
- An economical solution
 - Easy to install
 - Reduces vibration on smaller diameter cables
 - Made from PVC plastic and gentle on conductors
 - The overall color of the spiral damper product is light grey
 - With a colour code stripe as noted in the table below



Part No.	Conductor Range mm	Overall Length mm	Colour Code
HVD-044	4.4 - 6.2	1,220	Red
HVD-063	6.3 - 8.2	1,325	Blue
HVD-083	8.3 - 11.7	1,390	Black
HVD-118	11.8 - 14.4	1,510	Yellow
HVD-145	14.5 - 19.5	1,700	Green

Installation Guidelines

Helical Vibration Dampers are supplementary devices, which are best used with Armorlock ties or other ties over armor rods at both tangents and deadends. The gripping section of the damper should be installed approximately 15cm from the ends of armor rods or other hardware.

- Installation:
- Rotate the larger, damping end around the conductor
 - Continue wrapping until the gripping section is reached
 - Ensure the end of the damper is about six inches away from armor rods or any other supporting hardware
 - Continue wrapping the gripping portion around the conductor
 - No tools should be used to snap the end into position

The number of spiral dampers placed per span is an important factor in the effectiveness of the damper. Generally, the longer the span, more spiral dampers are required. The table below provides the recommended number of HVD's per span.

Span Length m	Number of Dampers
30 - 244	2
244 - 488	4
488 - 732	6





 **ECL**
CIRCUIT
PROTECTION

Arrestors

Zforce ZHP Arresters (Heavy Duty)

The type ZHP distribution class arresters provides heavy duty surge protection to overhead systems.

Features

- Zforce mold-on polymer housing for the ultimate seal against moisture ingress
- High strength Fibreglass for high fault-withstand design
- Integrated Ground Lead Disconnect for fast, reliable operation. Operates in less than 2 seconds at 1 amp and less than 2 cycles at 1,000 amps

Performance

- High Current - Short Duration 100kA
- Low Current - Long Duration 250 amps
- Nominal discharge class per IEC 10kA
- Duty Cycle - 10kA
- Line Discharge Class per IEC: Class 1
- Minimum Energy Capability - 100% production tests: 2.7kJ/kV
- Fault Withstand Capability: 20kA
- REA Listed
- The ZHP designs are tested in accordance with the latest ANSI/IEEE standards for metal oxide arresters



Part No.	Voltage Rating (Ur) (kV rms)	Top Terminal, Four Corner SSTL Clamp and Nut			
		Bottom Terminal Standard U Clamp and Nut			
		Standard Insulating Bracket with GLD, Nema Bracket, Bird Cap	Standard Insulating Bracket with GLD, No Nema Bracket, Bird Cap	Standard Insulating Bracket with GLD, No Nema Bracket, No Bird Cap	No Insulating Bracket, No GLD, No Nema Bracket, No Bird Cap
ZHP006	6	ZHP006-OC00100	ZHP006-0000100	ZHP006-0000000	ZHP006-3000000
ZHP009	9	ZHP009-OC00100	ZHP009-0000100	ZHP009-0000000	ZHP009-3000000
ZHP010	10	ZHP010-OC00100	ZHP010-0000100	ZHP010-0000000	ZHP010-3000000
ZHP012	12	ZHP012-OC00100	ZHP012-0000100	ZHP012-0000000	ZHP012-3000000
ZHP015	15	ZHP015-OC00100	ZHP015-0000100	ZHP015-0000000	ZHP015-3000000
ZHP018	18	ZHP018-OC00100	ZHP018-0000100	ZHP018-0000000	ZHP018-3000000
ZHP021	21	ZHP021-OC00100	ZHP021-0000100	ZHP021-0000000	ZHP021-3000000
ZHP024	24	ZHP024-OC00100	ZHP024-0000100	ZHP024-0000000	ZHP024-3000000
ZHP027	27	ZHP027-OC00100	ZHP027-0000100	ZHP027-0000000	ZHP027-3000000
ZHP030	30	ZHP030-OC00100	ZHP030-0000100	ZHP030-0000000	ZHP030-3000000
ZHP036	36	ZHP036-OC00100	ZHP036-0000100	ZHP036-0000000	ZHP036-3000000

1. GLD = Ground Lead Disconnect

2. Refer to EZ Ordering Information for other Options

3. N.B Other Voltages available

4. Order Information: Zforce-EZ-Ordering-Information.pdf (www.macleangepower.com)

Part No.	Voltage Rating (UR) (kV rms)	MCOV (Uc) kVrms	Equivalent F.O.W. kV (Crest)	Switching Surge kV (Crest)	Discharge Voltage (1.5kA)	Discharge Voltage (2.5kA)	Discharge Voltage (3kA)	Discharge Voltage (5kA)	Discharge Voltage (10kA)	Discharge Voltage (20kA)	Discharge Voltage (40kA)
ZHP003	3	2.55	11.5	7.5	8.4	8.6	8.7	9.2	10.2	11.6	13.7
ZHP006	6	5.1	23.4	15.1	17.1	17.5	17.7	18.8	20.7	23.6	27.7
ZHP009	9	7.65	33.5	21.6	24.4	25	25.4	26.8	29.6	33.8	39.7
ZHP010	10	8.4	36.3	23.5	26.5	27.2	27.5	29.1	32.1	36.6	43
ZHP012	12	10.2	43.5	28.2	31.8	32.6	33	34.9	38.5	44	51.6
ZHP015	15	12.7	54.2	35	39.5	40.5	41	43.4	47.9	54.7	64.2
ZHP018	18	15.3	65.6	42.4	47.8	49.1	49.7	52.6	58	66.2	77.7
ZHP021	21	17	70.2	45.4	51.2	52.5	53.2	56.3	62.1	70.9	83.2
ZHP024	24	19.5	87.9	56.8	64.1	65.7	66.6	70.4	77.7	88.7	104.1
ZHP027	27	22	98.7	63.8	72	73.9	74.8	79.1	87.3	99.7	117
ZHP030	30	24.4	109.6	70.9	79.9	82	83	87.8	96.9	110.6	129.9
ZHP036	36	29	131.3	84.9	95.8	98.2	99.5	105.2	116.1	132.6	155.6

For Zforce ZHP Arresters (Heavy Duty) Physical Data, refer next page.

Zforce ZHP Arresters (Heavy Duty) continued

Physical Data				
Part No.	Creepage mm	Strike mm	Weight kg	Bracket Creepage mm
ZHP006	303	153	1.37	117
ZHP009	404	197	1.64	117
ZHP010	404	197	1.64	117
ZHP012	464	209	1.68	117
ZHP015	506	226	1.91	117
ZHP018	616	254	2.23	232
ZHP021	708	290	2.68	232
ZHP024	809	319	2.96	232
ZHP027	910	348	3.23	232
ZHP030	1014	369	3.52	232
ZHP036	1115	394	3.8	232

Zforce ZRP Arresters (Riser Pole)

The type ZRP distribution class arresters provides surge protection to overhead systems for riser pole applications.

Features

- Zforce mold-on polymer housing for the ultimate seal against moisture ingress
- High strength Fibreglass for high fault-withstand design
- Integrated Ground Lead Disconnect for fast, reliable operation. Operates in less than 2 seconds at 1 amp and less than 2 cycles at 1,000 amps

Performance

- The ZRP designs are tested in accordance with the latest ANSI/IEEE standards for metal oxide arresters. (patent no. 5,923,518)
- High Current - Short Duration 100kA
- Low Current - Long Duration 250 amps
- Nominal discharge class per IEC 10kA
- Duty Cycle - 10kA
- Line Discharge Class per IEC: Class 1
- Minimum Energy Capability - 100% production tests: 2.7kJ/kV
- Fault Withstand Capability: 20kA
- REA Listed



Part No.	Voltage Rating (Ur) (kV rms)	Top Terminal, Four Corner SSTL Clamp and Nut			
		Bottom Terminal Standard U Clamp and Nut			
		Standard Insulating Bracket with GLD, Nema Bracket, Bird Cap	Standard Insulating Bracket with GLD, No Nema Bracket, Bird Cap	Standard Insulating Bracket with GLD, No Nema Bracket, No Bird Cap	No Insulating Bracket, No GLD, No Nema Bracket, No Bird Cap
ZRP006	6	ZRP006-0C00100	ZRP006-0000100	ZRP006-0000000	ZRP006-3000000
ZRP009	9	ZRP009-0C00100	ZRP009-0000100	ZRP009-0000000	ZRP009-3000000
ZRP010	10	ZRP010-0C00100	ZRP010-0000100	ZRP010-0000000	ZRP010-3000000
ZRP012	12	ZRP012-0C00100	ZRP012-0000100	ZRP012-0000000	ZRP012-3000000
ZRP015	15	ZRP015-0C00100	ZRP015-0000100	ZRP015-0000000	ZRP015-3000000
ZRP018	18	ZRP018-0C00100	ZRP018-0000100	ZRP018-0000000	ZRP018-3000000
ZRP021	21	ZRP021-0C00100	ZRP021-0000100	ZRP021-0000000	ZRP021-3000000
ZRP024	24	ZRP024-0C00100	ZRP024-0000100	ZRP024-0000000	ZRP024-3000000
ZRP027	27	ZRP027-0C00100	ZRP027-0000100	ZRP027-0000000	ZRP027-3000000
ZRP030	30	ZRP030-0C00100	ZRP030-0000100	ZRP030-0000000	ZRP030-3000000
ZRP036	36	ZRP036-0C00100	ZRP036-0000100	ZRP036-0000000	ZRP036-3000000

Part No.	Voltage Rating (UR) (kV rms)	MCOV (U _c) kVrms	Equivalent F.O.W. kV (Crest)	Switching Surge kV (Crest)	Discharge Voltage (1.5kA)	Discharge Voltage (2.5kA)	Discharge Voltage (3kA)	Discharge Voltage (5kA)	Discharge Voltage (10kA)	Discharge Voltage (20kA)	Discharge Voltage (40kA)
ZRP003	3	2.55	10	6.7	7.3	7.7	7.9	8.1	9.2	10.6	12.5
ZRP006	6	5.1	20.2	13.4	14.7	15.5	15.9	16.2	18.5	21.2	25.1
ZRP009	9	7.65	27.1	18	19.7	20.7	21.2	21.8	24.8	28.4	33.6
ZRP010	10	8.4	29.8	19.8	21.7	22.8	23.4	24	27.3	31.3	37
ZRP012	12	10.2	36.2	24	26.4	27.7	28.4	29	33.1	38	44.8
ZRP015	15	12.7	44.8	29.7	32.6	34.3	35.1	36	41	47	55.5
ZRP018	18	15.3	53.8	35.8	39.3	41.2	42.2	43.3	49.3	56.6	66.8
ZRP021	21	17	61.3	40.7	44.7	46.9	48.1	49.2	56.1	64.4	76
ZRP024	24	19.5	71.5	47.5	52.1	54.8	56.1	57.5	65.5	75.1	88.7
ZRP027	27	22	79.4	52.7	57.9	60.8	62.3	63.8	72.7	83.4	98.5
ZRP030	30	24.4	89.3	59.3	65.1	68.4	70.1	71.8	81.8	93.8	110.8
ZRP036	36	29	105.9	70.4	77.2	81.2	83.1	85.1	97	111.3	131.4

Physical Data				
Part No.	Creepage mm	Strike mm	Weight kg	Bracket Creepage mm
ZRP003	202	139	1.0	117
ZRP006	303	153	1.37	117
ZRP009	404	197	1.64	117
ZRP010	404	209	1.64	117
ZRP012	464	209	1.68	117
ZRP015	506	226	1.91	117
ZRP018	616	290	2.23	232
ZRP021	708	290	2.68	232
ZRP024	809	319	2.96	232
ZRP027	910	348	3.23	232
ZRP030	1014	369	3.52	232
ZRP036	1115	394	3.8	232



ZIP Intermediate Class Polymer Arresters

The type "ZIP" intermediate class arresters offer the benefits of polymer housings for system voltages up to 161 kV.

The arresters are approximately 1/5 the weight of the porcelain equivalent. Handling and installation become much easier tasks. Also, the risk of damage to the housing is reduced compared to porcelain.

Features

- The design consists of a number of metal oxide valve elements contained within a fibreglass winding and then inserted into the polymer housing. ZIP arresters are shipped as single units for all ratings
- There is no need to combine sections, even for the 144 kV duty cycle rating
- The metal oxide valve elements combine excellent protective characteristics with steady state performance to maximise protection over many years of service



Base Part No.	Voltage Rating (Ur) (kV rms)	Stainless steel top cover with tripod base			
		Eyebolt with a 90° angle bracket		Four hole NEMA pad with a 90° angle	
		Eyebolt with a 90° angle bracket	Four hole NEMA pad with a 45° angle	Bottom: Single Eye Bolt	Four hole NEMA pad with a 45° angle
ZIP0006-	6	ZIP0006-1111	ZIP0006-1131	ZIP0006-1211	ZIP0006-1211
ZIP0009-	9	ZIP0009-1111	ZIP0009-1131	ZIP0009-1211	ZIP0009-1211
ZIP0010-	10	ZIP0010-1111	ZIP0010-1131	ZIP0010-1211	ZIP0010-1211
ZIP0012-	12	ZIP0012-1111	ZIP0012-1131	ZIP0012-1211	ZIP0012-1211
ZIP0015-	15	ZIP0015-1111	ZIP0015-1131	ZIP0015-1211	ZIP0015-1211
ZIP0018-	18	ZIP0018-1111	ZIP0018-1131	ZIP0018-1211	ZIP0018-1211
ZIP0021-	21	ZIP0021-1111	ZIP0021-1131	ZIP0021-1211	ZIP0021-1211
ZIP0024-	24	ZIP0024-1111	ZIP0024-1131	ZIP0024-1211	ZIP0024-1211
ZIP0027-	27	ZIP0027-1111	ZIP0027-1131	ZIP0027-1211	ZIP0027-1211
ZIP0030-	30	ZIP0030-1111	ZIP0030-1131	ZIP0030-1211	ZIP0030-1211
ZIP0033-	33	ZIP0033-1111	ZIP0033-1131	ZIP0033-1211	ZIP0033-1211
ZIP0036-	36	ZIP0036-1111	ZIP0036-1131	ZIP0036-1211	ZIP0036-1211
ZIP0039-	39	ZIP0039-1111	ZIP0039-1131	ZIP0039-1211	ZIP0039-1211
ZIP0042-	42	ZIP0042-1111	ZIP0042-1131	ZIP0042-1211	ZIP0042-1211
ZIP0045-	45	ZIP0045-1111	ZIP0045-1131	ZIP0045-1211	ZIP0045-1211
ZIP0060-	60	ZIP0060-1111	ZIP0060-1131	ZIP0060-1211	ZIP0060-1211
ZIP0066-	66	ZIP0066-1111	ZIP0066-1131	ZIP0066-1211	ZIP0066-1211
ZIP0072-	72	ZIP0072-1111	ZIP0072-1131	ZIP0072-1211	ZIP0072-1211
ZIP0084-	84	ZIP0084-1111	ZIP0084-1131	ZIP0084-1211	ZIP0084-1211
ZIP0090-	90	ZIP0090-1111	ZIP0090-1131	ZIP0090-1211	ZIP0090-1211
ZIP0096-	96	ZIP0096-1111	ZIP0096-1131	ZIP0096-1211	ZIP0096-1211
ZIP0108-	108	ZIP0108-1111	ZIP0108-1131	ZIP0108-1211	ZIP0108-1211

1. Other Voltages available
2. Different Configurations available
3. Refer to Catalogue: [ZIP-catalog-pages.pdf](http://www.maclepower.com/zip-catalog-pages.pdf) (www.maclepower.com)

Part No.	Voltage Rating (Ur) (kV rms)	MCOV (Uc) (kV rms)	Equivalent F.O.W. kV (Crest)	Switching Surge kV (crest)	Discharge Voltage (1.5kA)	Discharge Voltage (2.5kA)	Discharge Voltage (3kA)	Discharge Voltage (5kA)	Discharge Voltage (10kA)	Discharge Voltage (20kA)	Discharge Voltage (40kA)
ZIP0003-	3	2.55	9.28	7.01	7.58	7.77	7.96	8.24	8.8	9.46	10.68
ZIP0006-	6	5.1	17.41	13.15	14.21	14.57	14.92	15.44	16.5	17.74	20.03
ZIP0009-	9	7.65	25.69	20.16	21.8	22.34	22.88	23.68	25.3	27.2	30.71
ZIP0010-	10	8.4	29.12	21.99	23.78	24.38	24.96	25.83	27.6	29.67	33.51
ZIP0012-	12	10.2	34.81	26.29	28.43	29.15	29.85	30.88	33	35.48	40.06
ZIP0015-	15	12.7	43.67	32.98	35.67	36.56	37.44	38.74	41.4	44.51	50.26
ZIP0018-	18	15.3	52.22	39.44	42.64	43.72	44.77	46.32	49.5	53.21	60.09
ZIP0021-	21	17	58.23	43.98	47.55	48.75	49.92	51.66	55.2	59.34	67.01
ZIP0024-	24	19.5	66.78	50.43	54.53	55.91	57.25	59.24	63.3	68.05	76.85
ZIP0027-	27	22	75.64	57.12	61.77	63.33	64.85	67.1	71.7	77.08	87.04
ZIP0030-	30	24.4	84.18	63.58	68.75	70.18	72.17	74.68	79.8	85.79	96.88
ZIP0033-	33	26.7	93.04	70.27	75.98	77.9	79.77	82.54	88.2	94.82	107.07
ZIP0036-	36	29	101.59	76.72	82.96	85.05	87.09	90.12	96.3	103.52	116.91
ZIP0039-	39	31.5	110.45	83.41	90.2	92.47	94.69	97.98	104.7	112.55	127.11
ZIP0042-	42	34	116.14	87.72	94.85	97.24	99.57	103.03	110.1	118.36	133.66
ZIP0045-	45	36.5	125.01	94.41	102.09	104.66	107.17	110.89	118.5	127.39	143.86
ZIP0048-	48	39	136.56	103.13	111.52	114.33	117.07	121.14	129.45	139.16	157.15
ZIP0054-	54	42	153.38	115.84	125.26	128.42	131.5	136.07	145.4	156.31	176.52
ZIP0060-	60	48	165.97	125.34	135.54	138.95	142.29	147.23	157.33	169.13	191
ZIP0066-	66	54	182.79	138.04	149.27	153.03	156.71	162.15	173.27	186.27	210.35
ZIP0072-	72	57	196.38	148.31	160.38	164.42	168.36	174.21	186.16	200.12	226
ZIP0084-	84	68	232.13	175.31	189.57	194.35	199.01	205.92	220.05	236.55	267.14
ZIP0090-	90	70	249.01	188.06	203.36	208.48	213.48	220.9	236.05	253.75	286.56
ZIP0096-	96	76	265.76	200.71	217.04	222.5	227.85	235.76	251.93	270.82	305.84
ZIP0108-	108	84	295.17	222.92	241.06	247.13	253.06	261.85	279.81	300.8	339.69
ZIP0120-	120	98	331.89	250.66	271.05	277.87	284.54	294.42	314.62	339.22	381.95
ZIP0132-	132	106	365.51	276.05	298.5	306.02	313.37	324.25	346.49	372.48	420.64
ZIP0144-	144	115	392.9	296.73	320.87	328.95	336.84	348.54	372.45	400.38	452.15

1. Temporary Over Voltage without any prior duty
2. The equivalent Front-of-Wave is the maximum discharge voltage for a 10kA impulse current wave which produces a voltage wave cresting in 0.5μs
3. Based on a switching surge current of 500 amperes
4. Refer to Catalogue: [ZIP-catalog-pages.pdf](#) (www.macleancleanpower.com)

Physical Data				
Part No.	Creepage mm	Height mm	Rod Dia mm	Weight kg
ZIP0006-	400	173	140	3.7
ZIP0009-	400	173	140	3.8
ZIP0010-	401	175	140	3.9
ZIP0012-	401	174	140	4.9
ZIP0015-	512	211	140	5
ZIP0018-	559	234	147	5.2
ZIP0021-	671	272	173	5.4
ZIP0024-	781	308	198	6.4
ZIP0027-	856	333	224	6
ZIP0030-	967	370	224	6.7
ZIP0033-	1,024	403	224	7.1
ZIP0036-	1,122	428	274	7.5
ZIP0039-	1,234	466	300	8
ZIP0042-	1,307	489	326	8.4
ZIP0045-	1,385	542	351	8.8
ZIP0060-	1,940	708	478	11.4
ZIP0066-	2,054	774	554	12.2
ZIP0072-	2,251	823	554	13.1
ZIP0084-	2,620	945	592	14.7
ZIP0090-	2,775	1051	838	17.9
ZIP0096-	3,027	1112	889	19.3
ZIP0108-	3,379	1218	991	21

ZSP Station Class

The type “ZSP” Station Class arresters offer the benefits of polymer housings for system voltages up to 198 kV. The arresters are approximately 25% the weight of the porcelain equivalent. Handling and installation become much easier tasks. The risk of damage to the housing is reduced compared to porcelain.

- Features**
- The design consists of a number of metal oxide valve elements contained within a fibreglass winding and then inserted into the polymer housing
 - ZSP arresters are shipped as single units for all ratings: 3 kV through 198 kV
 - There is no need to combine sections, even for the 198 kV duty cycle rating
 - The metal oxide valve elements combine excellent protective characteristics with steady state performance to maximise protection over many years of service

- Performance**
- ZSP are available in duty cycle ratings of 3 kV through 198 kV (2.55 kV through 158 kV MCOV) and are designed for system line to line voltages of 2.4 through 230 kV
 - The arrester designs are tested in accordance with the latest industry standards for metal oxide arresters
 - The “ZSP” arresters consistently withstand the following minimum design tests.
 - High Current-Short Duration: 100 kA crest
 - Transmission Line Discharge: Exceeds ANSI/IEEE and IEC class 2 standard requirements
 - Nominal discharge current per IEC: 10 kA
 - Line Discharge Class per IEC: Class 2 Minimum
 - Energy Capability: 6.1 kJ/kV
 - MCOV Fault Withstand Capability: 80kA rms sym
 - Working cantilever strength: 10,000 in. -lbs. REA Listed
 - Other voltages available and different configurations available



MacLean™
POWER SYSTEMS

Base Part No.	Voltage Rating (Ur) (kV rms)	Stainless steel top cover with tripod base			
		Eyebolt with a 90° angle bracket		Four hole NEMA pad with a 90° angle	
		Eyebolt with a 90° angle bracket	Four hole NEMA pad with a 45° angle	Bottom: Single Eye Bolt	Four hole NEMA pad with a 45° angle
ZSP0006-	6	ZSP0006-1111	ZSP0006-1131	ZSP0006-1211	ZSP0006-1231
ZSP0009-	9	ZSP0009-1111	ZSP0009-1131	ZSP0009-1211	ZSP0009-1231
ZSP0010-	10	ZSP0010-1111	ZSP0010-1131	ZSP0010-1211	ZSP0010-1231
ZSP0012-	12	ZSP0012-1111	ZSP0012-1131	ZSP0012-1211	ZSP0012-1231
ZSP0015-	15	ZSP0015-1111	ZSP0015-1131	ZSP0015-1211	ZSP0015-1231
ZSP0018-	18	ZSP0018-1111	ZSP0018-1131	ZSP0018-1211	ZSP0018-1231
ZSP0021-	21	ZSP0021-1111	ZSP0021-1131	ZSP0021-1211	ZSP0021-1231
ZSP0024-	24	ZSP0024-1111	ZSP0024-1131	ZSP0024-1211	ZSP0024-1231
ZSP0027-	27	ZSP0027-1111	ZSP0027-1131	ZSP0027-1211	ZSP0027-1231
ZSP0030-	30	ZSP0030-1111	ZSP0030-1131	ZSP0030-1211	ZSP0030-1231
ZSP0033-	33	ZSP0033-1111	ZSP0033-1131	ZSP0033-1211	ZSP0033-1231
ZSP0036-	36	ZSP0036-1111	ZSP0036-1131	ZSP0036-1211	ZSP0036-1231
ZSP0039-	39	ZSP0039-1111	ZSP0039-1131	ZSP0039-1211	ZSP0039-1231
ZSP0042-	42	ZSP0042-1111	ZSP0042-1131	ZSP0042-1211	ZSP0042-1231
ZSP0045-	45	ZSP0045-1111	ZSP0045-1131	ZSP0045-1211	ZSP0045-1231
ZSP0048-	48	ZSP0048-1111	ZSP0048-1131	ZSP0048-1211	ZSP0048-1231
ZSP0060-	60	ZSP0060-1111	ZSP0060-1131	ZSP0060-1211	ZSP0060-1231
ZSP0066-	66	ZSP0066-1111	ZSP0066-1131	ZSP0066-1211	ZSP0066-1231
ZSP0072-	72	ZSP0072-1111	ZSP0072-1131	ZSP0072-1211	ZSP0072-1231
ZSP0090-	90	ZSP0090-1111	ZSP0090-1131	ZSP0090-1211	ZSP0090-1231
ZSP0096-	96	ZSP0096-1111	ZSP0096-1131	ZSP0096-1211	ZSP0096-1231
ZSP0108-	108	ZSP0108-1111	ZSP0108-1131	ZSP0108-1211	ZSP0108-1231
ZSP0120-	120	ZSP0120-1111	ZSP0120-1131	ZSP0120-1211	ZSP0120-1231
ZSP0132-	132	ZSP0132-1111	ZSP0132-1131	ZSP0132-1211	ZSP0132-1231
ZSP0144-	144	ZSP0144-1111	ZSP0144-1131	ZSP0144-1211	ZSP0144-1231
ZSP0150-	150	ZSP0150-1111	ZSP0150-1131	ZSP0150-1211	ZSP0150-1231
ZSP0168-	168	ZSP0168-1111	ZSP0168-1131	ZSP0168-1211	ZSP0168-1231
ZSP0172-	172	ZSP0172-1111	ZSP0172-1131	ZSP0172-1211	ZSP0172-1231
ZSP0180-	180	ZSP0180-1111	ZSP0180-1131	ZSP0180-1211	ZSP0180-1231
ZSP0192-	192	ZSP0192-1111	ZSP0192-1131	ZSP0192-1211	ZSP0192-1231
ZSP0198-	198	ZSP0198-1111	ZSP0198-1131	ZSP0198-1211	ZSP0198-1231
ZSP0210-	210	ZSP0210-1111	ZSP0210-1131	ZSP0210-1211	ZSP0210-1231

Part No.	Voltage Rating (Ur) (kV ms)	MCOV (Uc) (kVrms)	TOV (1s kV rms)	TOV (10s kV rms)	Equivalent F.O.W. kV (Crest)	Switching Surge kV (crest)	Discharge Voltage						
							(1.5kA)	(2.5kA)	(3kA)	(5kA)	(10kA)	(20kA)	(40kA)
ZSP0006-	6	5.10	7.81	6.96	18.30	14.48	15.11	15.52	15.73	16.25	17.20	18.30	20.33
ZSP0009-	9	7.65	11.71	10.44	26.60	21.05	21.96	22.56	22.86	23.63	25.00	26.60	29.55
ZSP0010-	10	8.40	12.86	11.46	29.15	23.07	24.06	24.72	25.06	25.89	27.40	29.15	32.39
ZSP0012-	12	10.20	15.62	13.92	33.75	28.29	29.51	30.32	30.73	31.75	33.60	35.74	39.72
ZSP0015-	15	12.70	19.44	17.33	43.73	34.61	36.09	37.08	37.59	38.84	41.10	43.72	48.58
ZSP0018-	18	15.30	23.43	20.88	53.09	42.02	43.82	45.02	45.63	47.16	49.90	53.08	58.98
ZSP0021-	21	17.00	26.03	23.20	58.30	46.14	48.13	49.45	50.11	51.79	54.80	58.30	64.77
ZSP0024-	24	19.50	29.86	26.61	67.66	53.55	55.85	57.39	58.16	60.10	63.60	67.66	75.18
ZSP0027-	27	22.00	33.69	30.02	76.81	60.79	63.41	65.15	66.03	68.23	72.20	76.81	85.34
ZSP0030-	30	24.40	37.36	33.30	84.79	67.11	69.99	71.91	72.89	75.32	79.90	84.78	94.21
ZSP0033-	33	26.70	40.88	36.44	92.67	73.34	76.49	78.59	79.65	82.31	87.10	92.66	102.95
ZSP0036-	36	29.00	44.41	39.57	101.95	80.66	84.13	86.44	87.61	90.53	95.80	101.91	113.24
ZSP0039-	39	31.50	48.23	42.99	110.01	87.06	90.81	93.30	94.56	97.71	103.40	110.00	122.22
ZSP0042-	42	34.00	52.06	46.40	123.09	97.42	101.61	104.40	105.81	109.34	115.70	123.08	136.76
ZSP0045-	45	36.50	55.89	49.81	128.41	101.63	106.00	108.91	110.36	114.06	120.70	128.40	142.97
ZSP0048-	48	39.00	59.72	53.22	135.01	106.85	111.44	114.50	116.05	119.92	126.90	135.00	150.00
ZSP0060-	60	48.00	73.50	65.50	169.59	134.21	139.99	143.83	145.77	150.63	159.40	169.57	188.41
ZSP0066-	66	52.50	80.39	71.64	185.23	146.59	152.89	157.09	159.21	164.52	174.10	185.21	205.79
ZSP0072-	72	57.00	87.29	77.78	203.85	161.33	168.26	172.88	175.22	181.06	191.60	203.82	226.47
ZSP0090-	90	70.00	107.19	95.52	246.08	194.75	203.13	208.70	211.52	218.58	231.30	246.06	273.40
ZSP0096-	96	76.00	116.38	103.71	263.42	208.48	217.44	223.41	226.43	233.96	247.60	263.40	292.66
ZSP0108-	108	84.00	128.63	114.63	288.52	228.35	238.17	244.70	248.01	256.28	271.20	288.50	320.56
ZSP0120-	120	98.00	150.07	133.73	339.07	268.35	278.88	287.56	291.45	301.17	318.70	339.03	376.70
ZSP0132-	132	106.00	162.33	144.65	365.56	289.31	304.75	310.03	314.22	324.70	343.60	365.52	406.14
ZSP0144-	144	115.00	176.11	156.93	405.03	320.55	334.33	343.51	348.15	359.76	380.70	404.99	449.99
ZSP0150-	150	121.00	185.30	165.12	432.80	342.53	357.25	367.06	372.02	384.43	406.80	432.75	480.84
ZSP0168-	168	131.00	200.61	178.77	473.46	374.94	391.06	401.79	407.23	420.81	445.30	473.71	526.34
ZSP0172-	172	140.00	214.39	191.05	484.61	383.53	400.02	411.00	416.55	430.45	455.50	484.56	538.40
ZSP0180-	180	144.00	220.52	196.51	496.95	393.30	410.21	421.46	427.16	441.41	467.10	496.90	552.11
ZSP0192-	192	152.00	232.77	207.42	528.44	418.22	436.20	448.17	454.23	469.38	496.70	528.39	587.10
ZSP0198-	198	160.00	245.02	218.34	557.17	440.96	459.91	472.53	478.92	494.90	523.70	557.11	619.01
ZSP0210-	210	170.00	260.34	231.99	584.94	462.93	482.83	496.08	502.79	519.56	549.80	584.88	649.86

1. Temporary Over Voltage without any Prior Duty

2. The equivalent Front-of-Wave is the maximum discharge voltage for a 10kA impulse current wave which produces a voltage wave cresting in 0.5μs

3. Based on a switching surge current of 500 amperes

4. Refer to Catalogue: [ZIP-catalog-pages.pdf](#) (macleanpower.com)



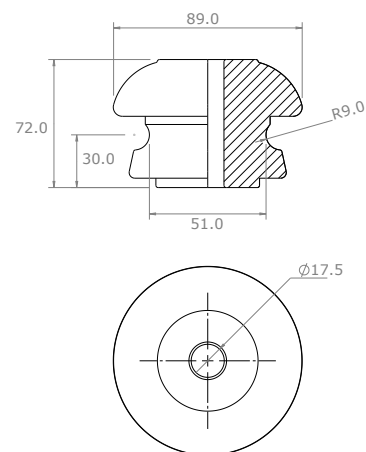


 **ECL**
INSULATORS

Distribution & Transmission Insulators

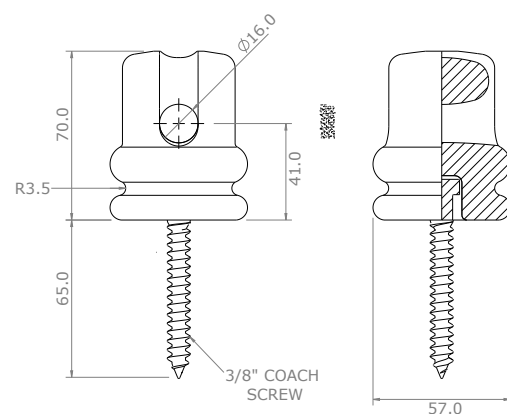
Distribution Insulators - 33kV & Below

Shackle Insulators



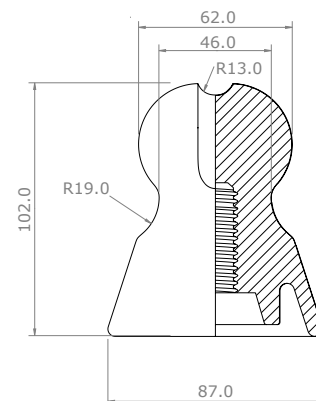
Part No.	Description	Line Voltage kV	Dry Flashover kV	Wet Flashover kV	Designed Loading kN	Colour	Standard
2205	Insulator 205 LV Bobbin	3.3	25	13	13.5	Munsell Grey	BS
2220	Insulator 220 LV Bobbin	0.65	10	5	5.5	Munsell Grey	BS
2SHLV2	Shackle Insulator	1	10	5	20	Munsell Grey	AS 3608-1989

Spike Insulators



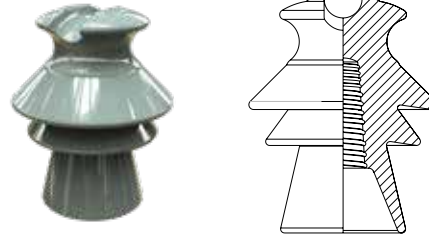
Part No.	Description	Line Voltage kV	Dry Flashover kV	Wet Flashover kV	Designed Loading kN	Colour	Standard
2103	Insulator Spike LV	1	30	11	4	Munsell Grey	BS

LV Pin Insulators



Part No.	Description	Line Voltage kV	Dry Flashover kV	Wet Flashover kV	Puncture kV	Designed Loading kN	Colour	Standard
2510	Insulator 510 LV	3	55	25	70	7	Munsell Grey	BS
2511	Insulator 511 LV	3	55	25	70	7	Munsell Grey	BS
2LVLP	Low Voltage Pattern Insulators	1	55	25	70	7	Munsell Grey	AS 3608-1989

11kV Pin Insulators

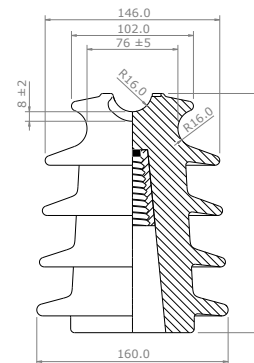


Part No.	Description	Rated Voltage kV	Creepage mm	Power Frequency withstand Dry kV	Power Frequency withstand Wet kV	Puncture Withstand kV	Designed Loading kN	Lightning Impulse Withstand Voltage kV	Groove mm
21130W-26	Insulator 1130W 26mm	11	250	65	40	125	7	99	26
21130W-32	Insulator 1130W 32mm	11	250	65	40	125	7	99	32

15kV Pin Insulators

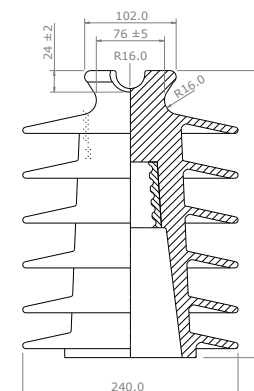
Part No.	Description	Rated Voltage kV	Creepage mm	Power Frequency withstand Dry kV	Power Frequency withstand Wet kV	Puncture Withstand kV	Designed Loading kN	Lightning Impulse Withstand Voltage kV	Groove mm
21540WNZ	1540W NZ	15	300	85	58	>150	5 - 10	110	26

22kV Pin Insulators



Part No.	Description	Rated Voltage kV	Creepage mm	Wet Power Frequency kV	Puncture Withstand kV	Designed Loading kN	Lightning Impulse Withstand Voltage kV	Groove mm	Standard
2ALP/22/450	Insulator, Patt. C thread	22	450	50	130	11	145	32	AS4899-2007

33 kV Pin Insulators



Part No.	Description	Rated Voltage kV	Creepage mm	Wet Power Frequency kV	Puncture Withstand kV	Designed Loading kN	Lightning Impulse Withstand Voltage kV	Groove mm	Standard
ALP/33/920	Insulator, Patt. C thread	33	920	70	185	7	190	32	AS 2947.2-2002

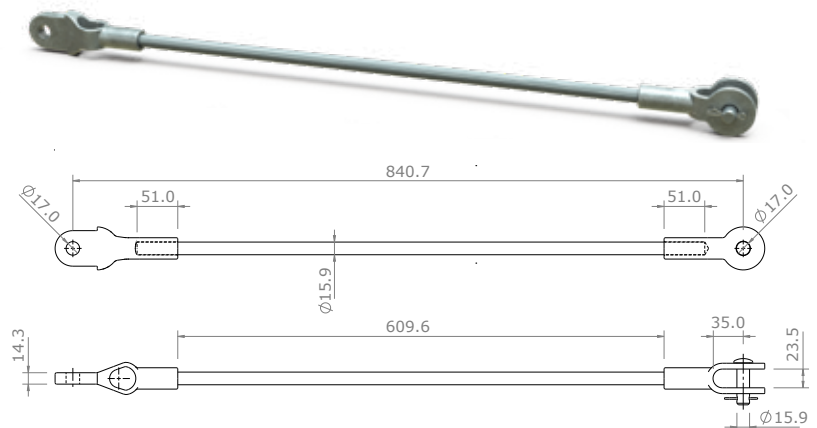
Guy Strain - Porcelain

Part No.	Description	Power Frequency Flashover Wet kV	Designed Loading kN
2GY2	Porcelain Guy Strain Insulator	15	71
2GY3	Porcelain Guy Strain Insulator	22	222



Guy Strain - Fibreglass

Part No.	Power Frequency Flashover Wet kV	Designed Loading kN
FGS-70-840	90	66



Line Posts - Porcelain

11kV Post Insulator

Part No.	Description	Rated Voltage kV	Nominal Creepage mm	Dry Arc Distance mm	Wet Flashover kV	Dry Flashover kV	Power Frequency Withstand WET kV	Power Frequency Withstand Dry kV	Cantilever kN	Standard
211KVP	11kV Post Insulator, Stud included	11	285	172	45	66	38	60	5.5	AS 2947

33kV Post Insulator

Part No.	Description	Rated Voltage kV	Nominal Creepage mm	Dry Arc Distance mm	Wet Flashover kV	Dry Flashover kV	Power Frequency Withstand WET kV	Power Frequency Withstand Dry kV	Cantilever kN	Standard
233KVP	33kV Post Insulator, Stud included	33	838	285	77	105	70	100	11	AS 2947



Strain Insulators

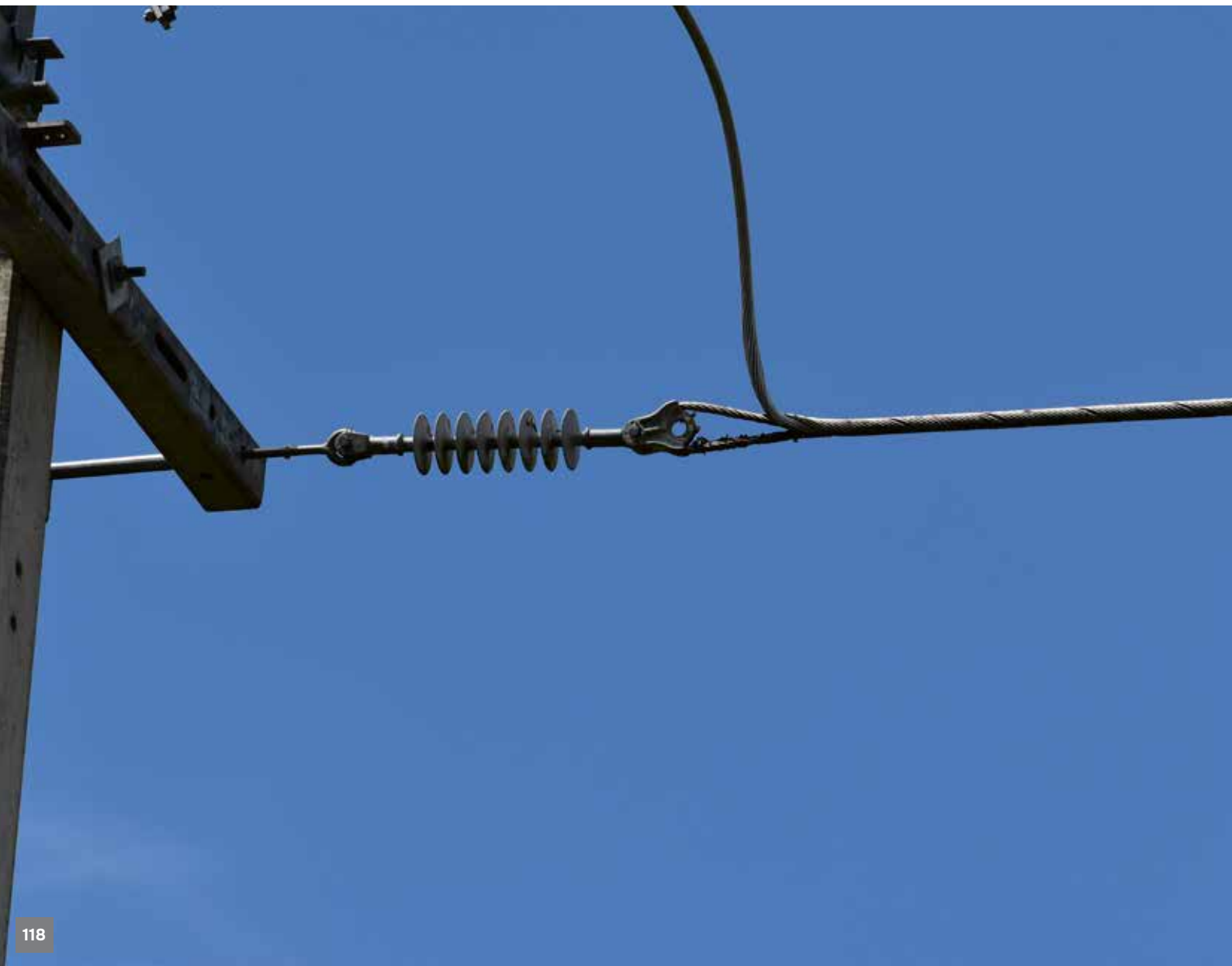
Distribution Deadend

DS-M Series distribution deadend insulators utilize a conventional silicone shed housing through injection molding and bonding to a fibreglass core. Our distribution deadend insulators range from 15-46kV with Clevis-Tongue connection.



Part No.	Line Voltage	Section Length mm	Dry Arc mm	Leakage mm	Electrical Flash- over kV 60 Hz Dry	Electrical Flash- over kV 60 Hz Wet	Electrical Flash- over kV CIFO Pos
2DS-15M	15	330	193	401	90	65	140
2DS-25M	28	476	345	800	150	135	255
2DS-28M	28	432	295	627	130	100	190
2DS-35M	35	559	426	954	170	155	280
2DS-46M	46	626	460	1,340	187	166	323

1. SML = 15,737 lbs [70 kN]
2. RTL = 7,869 lbs [35 kN]
3. Maximum Torsional Load = 37 ft/lbs [50 Nm]
4. All ratings meet or exceed the requirements of ANSI C29.13 (2000) and LWIWG-01 (96)
5. Corrosion Resistant Fibreglass Core / Silicone Housing / ANSI 52-4 Clevis & Tongue End Fittings
6. RUS Accepted



Insulators - 66kV & Above

Post Insulators

Molded Line Posts are standard products ideal for post applications from 69kV to 161kV. Modular Line Posts are custom products typically used for applications of 230kV and above.

The modular design offers the ability for custom applications to adapt to any end user's unique environment. MPS offers a wide variety of standard and custom Line Posts for your power and utility needs.



Polymer, Horizontal, 69kV							
Part No.	Tower End Fitting	Line End fitting	Section Length mm	Dry Arc mm	Leakage mm	Electrical Flashover kV 60 Hz Dry	Electrical Flashover kV 60 Hz Wet
H1 51 20 020 BXSS 009	5" Bolt Circle (Rotated 45 Degrees)	Trunnion, Ductile Iron	711	584	1,664	217	161
H2 50 50 024 VX SS 001 (L011709)	5" Bolt Circle	5" Bolt Circle	787	620	1,832	244	222
H2 52 031 VX 03	5" Bolt Circle (Rotated 45 Degrees)	Trunnion, Ductile Iron (ACTS-118 Included)	787	601	1,698	237	216
H1 51 60 020 BXSS 009	5" Bolt Circle (Rotated 45 Degrees)	Trunnion, Ductile Iron	772	584	1,664	217	161
H3 50 50 042 AXSS 016	5" Bolt Circle (5/8 - 11UNC Threaded Holes)	5" Bolt Circle	1,407	1,143	3,045	402	313

Polymer, Horizontal, 69kV						
Part No.	CIFO + kV	CIFO - kV	Cantilever Load (kN) MDCL	Cantilever Load (kN) SCL	Tensile Load (kN) STL	Weight kg
H1 51 20 020 BXSS 009	350	384	7.3	14.6	22.2	11
H2 50 50 024 VXSS 001	414	507	11.7	23.4	66.7	15.4
H2 52 031 VX 03	403	495	11.1	22.2	22.2	13.5
H1 51 60 020 BXSS 009	350	384	7.3	14.6	22.2	12
H3 50 50 042 AXSS 016	661	700	12.9	25.9	89	34



Polymer, Vertical, 69kV								
Part No.	Tower End Fitting	Line End fitting	Weight kg	Section Length mm	Dry Arc mm	Leakage mm	Electrical Flashover kV 60 Hz Dry	Electrical Flashover kV 60 Hz Wet
NPVG 20 XG M21 SO-U	Stud Base	Universal Trunnion	7.8	661	585	1,508	231	210
NPVN 20 XG M21 SO-134	Stud Base	Trunnion	7.8	661	585	1,508	231	210
NPVN 20 XG M21 SO-U	Stud Base	Universal Trunnion	7.8	661	585	1,508	231	210
NPVN 20 XG O17 S	Stud Base	Universal Trunnion	6.1	661	566	1,371	224	203
NPVN 20 XG O17 SO	Stud Base	Universal Trunnion	6.1	661	566	1,371	224	203
P2 55 031 VX 03	5" Bolt Circle	5" Bolt Circle	15.4	787	620	1,832	244	222
V7 40 60 022 MXXG 017	5" Bolt Circle (Rotated 45 Degrees)	Trunnion	6.9	619	483	1,224	224	203
H1 50 60 020 BX SS 009	5" Bolt Circle	Trunnion	12.3	711	506	1,590	203	183

Polymer, Vertical, 69kV					
Part No.	CIFO + kV	CIFO - kV	Cantilever Load MDCL	Cantilever Load SCL	Tensile Load STL
NPVG 20 XG M2 ISO-U	392	484	5.6	11.1	22.2
NPVN 20 XG M2 ISO-134	392	484	5.6	11.1	22.2
NPVN 20 XG M2 ISO-U	392	484	5.6	11.1	22.2
NPVN 20 XG O17 S	381	472	5.6	11.1	22.2
NPVN 20 XG O17 SO	381	472	5.6	11.1	22.2
P2 55 031 VX 03	414	507	11.7	23.4	66.7
V7 40 60 022 MXXG 017	381	472	5.6	11.1	22.2
H1 50 60 020 BX SS 009	344	431	7.4	14.8	22.2

Polymer, Vertical, 110kV						
Part No.	Tower End Fitting	Line End fitting	Weight kg	Section Length mm	Dry Arc mm	Leakage mm
P2 55 047 VX 04 (L011713)	5" Bolt Circle (Rotated 45 Degrees)	5" Bolt Circle (Rotated 45 Degrees)	20	1,194	1,026	3,043

Polymer, Vertical, 110kV							
Part No.	Electrical Flashover kV 60 Hz Dry	Electrical Flashover kV 60 Hz Wet	CIFO + kV	CIFO - kV	Cantilever Load (kN) MDCL	Cantilever Load (kN) SCL	Tensile Load (kN) STL
P2 55 047 VX 04 (L011713)	388	359	668	748	8.6	17.3	66.7

Strain Insulators

Polymer, 69kV						
Part No.	Tower End Fitting	Line End fitting	Weight kg	Section Length mm	Dry Arc mm	Leakage mm
S1 40 90 025 MX AL 015	Y-Clevis (Forged Steel)	Eye (Forged Steel)	3.5	960	681	1,699
S1 45 034 VX 06	Y-Clevis	Tongue, 90 degree Rotated	3.4	864	595	1,341
S1 45 035 VX 06	Y-Clevis	Tongue, 90 degree Rotated	4.7	889	648	2,153
S1 49 036 VX 01	Y-Clevis	Eye	3.9	914	617	1,560
S6 99 032 VX 01	Eye	Eye	3.2	813	461	909

Polymer, 69kV						
Part No.	Electrical Flash-over kV 60 Hz Dry	Electrical Flash-over kV 60 Hz Wet	CIFO + kV	CIFO - kV	SML	RTL
S1 40 90 025 MX AL 015	251	212	468	503	111.2	55.6
S1 45 034 VX 06	237	213	412	444	111.2	55.6
S1 45 035 VX 06	257	232	447	480	112.2	55.6
S1 49 036 VX 01	188	168	327	354	112.2	55.6
S6 99 032 VX 01	187	166	324	351	160.1	80.1

Guy Strain Insulators

Part No.	Tower End Fitting	Line End fitting	Weight kg	Section Length mm	Dry Arc mm	Leakage mm
S1 55 023 XX 02	Tongue IEC 16C	Tongue IEC 16C	1.8	584	302	301

Part No.	Electrical Flash-over kV 60 Hz Dry	Electrical Flash-over kV 60 Hz Wet	CIFO + kV	CIFO - kV	SML	RTL
S1 55 023 XX 02	127	110	217	238	120.1	60.1

Glass Discs Insulators

Part No.	Description
L011002	Glass Disc 160kN F160/146DC
L011008	Glass Disk 120kN U120/146/ZMP



V7 Distribution Insulators 35kV-69kV

V7 & H7 - 1.75" Core Rod Insulators

V7-MX Series Posts are MPS standard vertical posts for 35kV-69kV applications.

Equipped with 3/4"-10 stud base and vertical trunnion with optional ACTS clamps or F-neck end fitting.

(7/8"-9 and M20 threads available)



1.75" Line Post - Vertical Trunnion - 3/4" Stud Base

Part No.	Line Voltage kV	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	Electrical Flashover kV 60 Hz Dry	Electrical Flashover kV 60 Hz Wet	Electrical Flashover kV CIFO Pos
V7 40 60 014 MX XG 009	35	315	405	321.75	688.5	151	131	255
V7 40 60 016 MX XG 011	35 - 46	360	450	366.75	821.25	169	149	286
V7 40 60 018 MX XG 013	46	405	495	411.75	951.75	188	168	318
V7 40 60 020 MX XG 015	46 - 69	450	540	456.75	1,077.75	206	186	349
V7 40 60 022 MX XG 017	69	495	585	501.75	1215	224	203	381

Product Data Continued - 1.75" Line Post - Vertical Trunnion / 3/4" Stud Base

Part No.	Electrical Flashover kV CIFO Neg	Cantilever Load (kg) SCL	Cantilever Load (kg) MDCL 50%	Cantilever Load (kg) MDCL 40%
V7 40 60 014 MX XG 009	329	12.5	6.25	5
V7 40 60 016 MX XG 011	366	12.5	6.25	5
V7 40 60 018 MX XG 013	403	12.5	6.25	5
V7 40 60 020 MX XG 015	437	12.5	6.25	5
V7 40 60 022 MX XG 017	472	12.5	6.25	5

V7 1.75" F-Neck Line Post Insulators (1.75" Rod)

Part No.	Voltage kV	Section Length mm	Dry Arc mm	Leakage mm	Weight kg	MDCL kN
V7 40 70 008 MX XG 007	15	332	228	485	4.9	5.6
V7 40 70 010 MX XG 009	28	374	279	635	5	5.6
V7 40 70 012 MX XG 011	35	425	331	780	5.6	5.6
V7 40 70 014 MX XG 013	35-45	476	386	927	5.9	5.6
V7 40 70 016 MX XG 015	46	527	432	1077	6.3	5.6
V7 40 70 018 MX XG 017	46	578	483	1224	6.6	5.6
V7 40 70 020 MX XG 019	69	629	533	1372	6.9	5.6

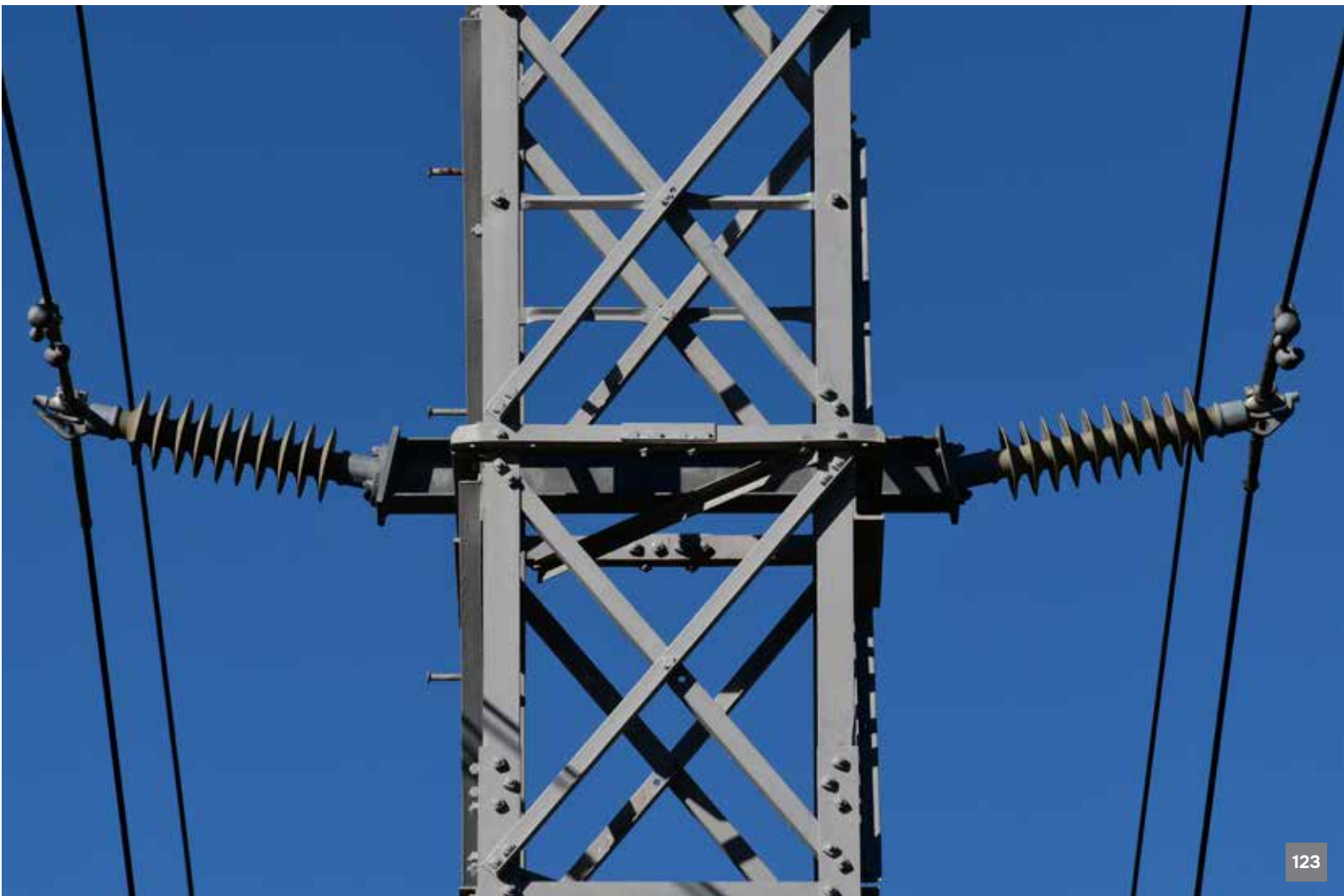
Equipped with 3/4"-10 stud base and horizontal trunnion with optional ACTS clamps. (7/8"-9 and M20 threads available)

H7 1.75" Line Post - Horizontal Trunnion - 3/4" Stud Base

Part No.	Line Voltage kV	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	Electrical Flashover kV 60 Hz Dry
H7 40 20 014 MX XG 009	28	315	405	321.75	688.5	151
H7 40 20 016 MX XG 011	35	360	450	366.75	821.25	169
H7 40 20 018 MX XG 013	35-46	405	495	411.75	951.75	188
H7 40 20 020 MX XG 015	46	450	540	456.75	1,077.75	206
H7 40 20 022 MX XG 017	69	495	585	501.75	1215	224

Product Data Continued - 1.75" Line Post - Horizontal Trunnion / 3/4 Stud Base

Part No.	Electrical Flashover kV 60 Hz Wet	Electrical Flashover kV CIFO Pos	Electrical Flashover kV CIFO Neg	Cantilever Load (kg) SCL	Cantilever Load (kg) MDCL 50%	Cantilever Load (kg) MDCL 40%
H7 40 20 014 MX XG 009	131	255	329	12.5	6.25	5
H7 40 20 016 MX XG 011	149	286	366	12.5	6.25	5
H7 40 20 018 MX XG 013	168	318	403	12.5	6.25	5
H7 40 20 020 MX XG 015	186	349	437	12.5	6.25	5
H7 40 20 022 MX XG 017	203	381	472	12.5	6.25	5



Post Distribution Insulators

Post Distribution Insulators 15kV-69kV

A variety of stud mount and gain base 1.75" & 1.5" core rod vertical distribution line post insulators.



1.75" Horizontal Trunnion - Gain Base

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPKG 20 XG O17 S0	69	696.0	1,371.6	566.4	224	203	381	472
NPKG 20 XG O13 S0	69	594.4	1,074.4	464.8	188	168	318	403
NPKG 20 XG O11 S0	46	543.6	927.1	414.0	169	149	286	366
NPKG 20 XG O09 S0	46	492.8	777.2	363.2	151	131	255	329

Product Data Continued - 1.75" Horizontal Trunnion - Gain Base

Part No.	Cantilever Load (kg) MDCL	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPKG 20 XG O17 S0	567	1,134	2,268	9.2
NPKG 20 XG O13 S0	567	2,500	2,268	8.5
NPKG 20 XG O11 S0	567	1,134	2,268	8.2
NPKG 20 XG O09 S0	567	2,500	2,268	7.8

1.75" Vertical Trunnion - Gain Base

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPVG 20 XG O09 S0	46	457.2	777.2	363.2	151	131	255	329
NPVG 20 XG O17 S0	69	660.4	1,371.6	566.4	224	203	381	472

Product Data Continued - 1.75" Vertical Trunnion - Gain Base

Part No.	Cantilever Load (kg) MDCL	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPVG 20 XG O09 S0	567	1,134	2,268	8.2
NPVG 20 XG O17 S0	567	2,500	2,268	9.6

1.75" Vertical Trunnion - 7/8" Stud Base

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPKN 20 XG 009 S0	46	457.2	777.2	363.2	151	131	255	329
NPKN 20 XG 017 S0	69	660.4	1,371.6	566.4	224	203	381	472

Product Data Continued - 1.75" Vertical Trunnion - 7/8" Stud Base

Part No.	Cantilever Load (kg) MDCL	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPKN 20 XG 009 S0	567	1,134	2,268	2.1
NPKN 20 XG 017 S0	567	1,134	2,268	2.8

1.5" Horizontal - 3/4" Stud Mount

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPKN 10 XB 003 S0	15	276.9	287	182.9	86	66	146	193
NPKN 10 XB 005 S0	28	378.5	478	284.5	122	103	208	271
NPKN 10 XB 006 S0	35	429.3	569	335.3	141	122	239	309

Product Data Continued - 1.5" Horizontal -3/4" Stud Mount

Part No.	Cantilever MDCL kN	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPKN 10 XB 003 S0	5.49	1,120.2	2,268	2.8
NPKN 10 XB 005 S0	5.49	1,120.2	2,268	3.2
NPKN 10 XB 006 S0	5.49	1,120.2	2,268	3.4

1.5" Horizontal Trunnion - Gain Base

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPKG 10 XB 003 S0	15	315	287	182.9	86	66	146	193
NPKG 10 XB 005 S0	28	416.6	478	284.5	122	103	208	271
NPKG 10 XB 006 S0	35	467.4	569	335.3	141	122	239	309

Product Data Continued - 1.5" Horizontal Trunnion - Gain Base

Part No.	Cantilever MDCL kN	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPKG 10 XB 003 S0	5.49	1,120.2	2,268	6
NPKG 10 XB 005 S0	5.49	1,120.2	2,268	6.4
NPKG 10 XB 006 S0	5.49	1,120.2	2,268	6.6

1.5" Vertical Trunnion - Gain Base

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPVG 10 XB 003 S0	15	640	287	183	86	66	146	193
NPVG 10 XB 005 S0	28	742	478	284	122	103	208	271
NPVG 10 XB 006 S0	35	792	569	335	141	122	239	309

Product Data Continued - 1.5" Vertical Trunnion - Gain Base

Part No.	Cantilever MDCL kN	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPKG 10 XB 003 S0	5.5	1,120.4	2,268	6.5
NPKG 10 XB 005 S0	5.5	1,120.4	2,268	6.9
NPKG 10 XB 006 S0	5.5	1,120.4	2,268	7.2

1.5" Vertical Trunnion - 3/4" Stud Mount

Part No.	Line Voltage kV	Section Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO + kV	CIFO - kV
NPVN 10 XB 003 S0	15	276.9	287	182.9	86	66	146	193
NPVN 10 XB 005 S0	28	378.5	478	284.5	122	103	208	271
NPVN 10 XB 006 S0	35	429.3	569	335.3	141	122	239	309

Product Data Continued - 1.5" Vertical Trunnion - 3/4" Stud Mount

Part No.	MDCL kN	Cantilever Load (kg) SCL	Tensile Load (kg) STL	Weight kg
NPVN 10 XB 003 S0	5.49	2,470	2,268	1.3
NPVN 10 XB 005 S0	5.49	2,470	2,268	1.5
NPVN 10 XB 006 S0	5.49	2,470	2,268	1.6



Polymer Line Post Insulators 15kV-46kV

Gen 2 15kV-46KV Post

Newly designed distribution line post insulator family, catering to the 15kV-46kV voltage classes.

- Features:**
- Best in class production methodology used for transmission insulator manufacturing
 - PST (primary, secondary, tertiary) watertight seal
 - Epoxy fibreglass core with enhanced hydrophobicity silicone
 - New aluminum gain base available
 - Strength meets ANSI C29.18 and CSA C411.6



Universal Trunnion

Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
HO 40 U0 004 MXSS 002	15	ALL	3.6	101	321	158	310	2,268	1,270	612
HO 40 U0 006 MXSS 003	25	ALL	3.9	151	371	209	465	2,268	1,270	612
HO 40 U0 008 MXSS 004	35	ALL	4.3	201	421	259	620	2,268	1,270	612
HO 40 U0 010 MX SS 005	46	ALL	4.5	252	471	323	798	2,268	1,270	612
HO 90 U0 004 MXSS 002	15	ALL	4.0	102	361	159	310	2,268	1,270	612
HO 90 U0 006 MXSS 003	25	ALL	4.3	152	409	211	465	2,268	1,270	612
HO 90 U0 008 MXSS 004	35	ALL	4.6	201	433	262	620	2,268	1,270	612
HO 90 U0 010 MXSS 005	46	ALL	4.9	252	489	315	798	2,268	1,270	612

F-Neck

- Standard F-Neck head
- Gen 1 seal uses Crimp Under pressure technology
- Extended life, specially formulated silicon housing minimises maintenance needs
- Versatile so can be installed in a variety of orientations



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
HO 40 70 004 MXSS 002	15	51-1F	3.1	101	297	158	310	2,268	1,270	612
HO 40 70 006 MXSS 003	25	51-2F	3.4	151	347	209	465	2,268	1,270	612
HO 40 70 008 MXSS 004	35	51-3F	3.7	201	397	259	620	2,268	1,270	612
HO 40 70 010 MXSS 005	46	51-4F	4.0	252	447	322	798	2,268	1,270	612
HO 90 70 004 MXSS 002	15	—	3.5	102	335	159	310	2,268	1,270	612
HO 90 70 006 MXSS 003	25	—	3.8	152	385	211	465	2,268	1,270	612
HO 90 70 008 MXSS 004	35	—	4.1	201	433	262	620	2,268	1,270	612
HO 90 70 010 MXSS 005	46	—	4.4	252	485	315	798	2,268	1,270	612

Polymer Line Post Insulators 15kV-46kV

Horizontal Trunnion

- Standard Trunnion head for horizontal installations
- Gen 2 seal uses Crimp Under pressure technology
- Extended life, specially formulated silicon housing minimises maintenance needs



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
HO 40 20 004 MXSS 002	15	51-21	2.8	101	306	158	310	2,268	1,270	612
HO 40 20 006 MXSS 003	25	51-22	3.2	151	356	209	465	2,268	1,270	612
HO 40 20 008 MXSS 004	35	51-23	3.4	201	406	259	620	2,268	1,270	612
HO 40 20 010 MXSS 005	46	51-24	3.8	252	456	322	798	2,268	1,270	612
HO 90 20 004 MXSS 002	15	51-31	3.2	102	348	159	310	2,268	1,270	612
HO 90 20 006 MXSS 003	25	51-31	3.5	152	385	211	465	2,268	1,270	612
HO 90 20 008 MXSS 004	35	51-32	3.8	201	433	262	620	2,268	1,270	612
HO 90 20 010 MXSS 005	46	51-33	4.1	252	485	315	798	2,268	1,270	612

Vertical Trunnion

- Gen 2 seal PST area increased by 140%
- Any trunnion bracket can be used
- Extended life, specially formulated silicon housing minimises maintenance needs



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
HO 40 60 004 MXSS 002	15	51-11	2.9	101	323	158	310	2,268	1,270	612
HO 40 60 006 MXSS 003	25	51-12	3.2	151	373	209	465	2,268	1,270	612
HO 40 60 008 MXSS 004	35	51-13	3.5	201	423	259	620	2,268	1,270	612
HO 40 60 010 MXSS 005	46	51-14	3.8	252	473	322	798	2,268	1,270	612
HO 90 60 004 MXSS 002	15	—	3.3	102	361	159	310	2,268	1,270	612
HO 90 60 006 MXSS 003	25	—	3.6	152	411	211	465	2,268	1,270	612
HO 90 60 008 MXSS 004	35	—	3.9	201	461	262	620	2,268	1,270	612
HO 90 60 010 MXSS 005	46	—	4.2	252	511	315	798	2,268	1,270	612

Polymer Line Post Insulators 46kV-69kV

Gen 2 46kV-69kV Post

Newly designed transmission line post insulators family, catering to the 46kV-69kV voltage classes.

- Features:**
- Manufactured with 3/4"-10 stud base or aluminum gain base
 - Various aluminum line side fittings including universal trunnion and drop tongue available
 - Epoxy Fibreglass core with enhanced hydrophobicity silicone
 - New and improved Gen 2 PST protection system with no RTV
 - Strength meets ANSI C29.18 and CSA C411.6



F-Neck

Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
H7 40 70 010 MXSS 005	46	—	6.8	249	465	321	817	2,268	1,270	612
H7 40 70 012 MXSS 006	46	—	7.3	300	513	373	978	2,268	1,270	612
H7 40 70 014 MXSS 007	46	—	7.6	351	564	423	1,142	2,268	1,270	612
H7 40 70 016 MXSS 008	69	—	8.0	404	617	467	1,308	2,268	1,270	612
H7 40 70 018 MXSS 009	69	—	8.3	456	673	529	1,478	2,268	1,270	612
H7 90 70 010 MXSS 005	46	—	5.9	249	465	321	817	2,268	1,270	612
H7 90 70 012 MXSS 006	46	—	6.4	300	513	373	978	2,268	1,270	612
H7 90 70 014 MXSS 007	46	—	6.8	351	564	423	1,142	2,268	1,270	612
H7 90 70 016 MXSS 008	69	—	7.3	404	617	467	1,308	2,268	1,270	612
H7 90 70 018 MXSS 009	69	—	7.7	456	673	529	1,478	2,268	1,270	612

Horizontal Trunnion

- Standard Trunnion head for horizontal installations
- Gen 2 seal uses Crimp Under pressure technology
- Extended life, specially formulated silicon housing minimises maintenance needs



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
H7 90 20 018 MXSS 009	69	51-36	8.2	456	673	529	1,478	2,268	1,270	612
H7 90 20 016 MXSS 008	69	51-35	7.5	404	617	467	1,308	2,268	1,270	612
H7 90 20 014 MXSS 007	46	51-34	6.8	351	564	423	1,142	2,268	1,270	612
H7 90 20 012 MXSS 006	46	51-34	6.4	300	513	373	978	2,268	1,270	612
H7 90 20 010 MXSS 005	46	51-33	5.9	249	465	321	817	2,268	1,270	612
H7 40 20 018 MXSS 009	69	51-26	8.3	456	687	529	1,478	2,268	1,270	612
H7 40 20 016 MXSS 008	69	51-25	8.0	404	634	467	1,308	2,268	1,270	612
H7 40 20 014 MXSS 007	46	51-24	7.6	351	582	423	1,142	2,268	1,270	612
H7 40 20 012 MXSS 006	46	51-24	7.3	300	531	373	978	2,268	1,270	612
H7 40 20 010 MXSS 005	46	51-24	6.8	249	478	321	817	2,268	1,270	612

Polymer Line Post Insulators 46kV-69kV

Universal Trunnion

- Gen 2 seal uses Crimp Under pressure technology
- Simple design removes the need to purchase trunnions
- Adjustable range spanning conductors from 5.2mm to 34mm
- Extended life, specially formulated silicon housing minimises maintenance needs
- Versatile so can be installed in a variety of orientations



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
H7 40 U0 010 MXSS 005	46	ALL	6.8	249	478	321	817	2,268	1,270	612
H7 40 U0 012 MXSS 006	46	ALL	7.3	300	531	373	978	2,268	1,270	612
H7 40 U0 014 MXSS 007	46	ALL	7.6	351	582	423	1,142	2,268	1,270	612
H7 40 U0 016 MXSS 008	69	ALL	8.0	404	634	467	1,308	2,268	1,270	612
H7 40 U0 018 MXSS 009	69	ALL	8.3	456	687	529	1,478	2,268	1,270	612
H7 90 U0 010 MXSS 005	46	ALL	465	249	465	321	817	2,268	1,270	612
H7 90 U0 012 MXSS 006	46	ALL	6.3	300	513	373	978	2,268	1,270	612
H7 90 U0 014 MXSS 007	46	ALL	6.9	351	564	423	1,142	2,268	1,270	612
H7 90 U0 016 MXSS 008	69	ALL	7.5	404	617	467	1,308	2,268	1,270	612
H7 90 U0 018 MXSS 009	69	ALL	8.2	456	673	529	1,478	2,268	1,270	612

Vertical Trunnion

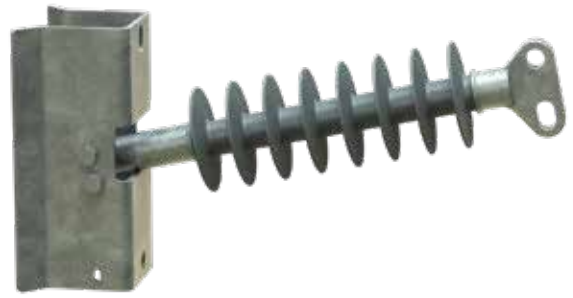
- Gen 2 seal PST area increased by 140%
- Any trunnion bracket can be used
- Extended life, specially formulated silicon housing minimises maintenance needs



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
H7 40 60 010 MXSS 005	46	-	6.8	249	479	321	817	5,000	2,800	1,350
H7 40 60 012 MXSS 006	46	-	7.3	300	531	373	978	5,000	2,800	1,350
H7 40 60 014 MXSS 007	46	-	7.6	351	582	423	1,142	5,000	2,800	1,350
H7 40 60 016 MXSS 008	69	-	8.0	404	638	467	1,308	5,000	2,800	1,350
H7 40 60 018 MXSS 009	69	-	8.3	456	687	529	1,478	5,000	2,800	1,350

Drop Tongue

- Gen 2 seal uses Improved PST protection system with no RTV
- Various all line side fittings and drop tongue available
- Epoxy fiberglass core with enhanced hydrophobicity silicone
- Extended life, specially formulated silicon housing minimises maintenance needs
- Versatile so can be installed in a variety of orientations



Part No.	Line Voltage kV	ANSI Class	Assembly Weight kg	Rubber Length mm	Section Length mm	Dry Arc mm	Leakage mm	STL kg/kN	SCL kg/kN	MDCL kg/kN
H7 40 10 010 MXSS 005	46	-	6.8	249	454	321	817	5,000	2,800	1,350
H7 40 10 012 MXSS 006	46	-	7.3	300	506	373	978	5,000	2,800	1,350
H7 40 10 014 MXSS 007	46	-	7.6	351	558	423	1,142	5,000	2,800	1,350
H7 40 10 016 MXSS 008	69	-	8.0	404	610	467	1,308	5,000	2,800	1,350
H7 40 10 018 MXSS 009	69	-	8.3	456	662	529	1,478	5,000	2,800	1,350
H7 90 10 010 MXSS 005	46	-	5.8	249	480	321	817	5,000	2,800	1,350
H7 90 10 012 MXSS 006	46	-	5.32	300	532	373	978	5,000	2,800	1,350
H7 90 10 014 MXSS 007	46	-	6.9	351	584	423	1,142	5,000	2,800	1,350
H7 90 10 018 MXSS 009	69	-	8.0	456	681	529	1,478	5,000	2,800	1,350



Substation Insulators

Substation Insulators

MPS offers a wide variety of standard and high strength silicone station posts from 7.5 kV to 345 kV for the utility market.

In addition to being used on bus supports, many global switch manufacturers offer Maclean station posts on switches. MPS also offers direct one piece silicone replacement products to retrofit older cap and pin posts in substations.

Standard Strength MPS offers standard strength silicone station posts. These station posts meet the mechanical heights and comparable electrical performance of their porcelain TR numbers. This means they can be used as direct replacements in most cases. These weigh about 1/3 the weight of porcelain and offer excellent hydrophobic properties.



Part No.	Porcelain TR	Line Voltage	BIL Rating	Height mm	Cantilever kg	MWL @ 40% kg	Weight kg	SML kg	Compression kg	Leakage mm
NPP 20 XG 05S	202	7.5	95	190.5	907	362	2.7	907	4,535	323
NPP 20 XG 07S	205	15	110	254	907	362	3.2	907	4,535	520
NPP 20 XG 11S	208	23	150	355.6	907	362	4.1	907	4,535	817
NPP 20 XG 15S	210	34.5	200	457.2	907	362	4.5	907	4,535	1,115
NPP 20 XG 19S	214	46	250	558.8	907	362	5.4	907	4,535	1,412
NAA 100 XH 16S0	278	69	350	762	1,360	544	17.2	1,995	11,339	1,828
NPP 20 XG 27S	216	69	350	762	680	272	7.7	680	3,401	1,955
NAA 100 XH 23S0	287	115	550	1,143	1,179	471	20.8	1,270	5,443	2,694
NAA 100 XH 29S0	289	138	650	1,371.6	997	399	22.2	1,043	3,628	3,395
P2 50 50 053 BXSS 026	295	161	750	1,574.8	839	335	27.2	907	2,721	3,980
P2 53 53 070 BBSS 033	308	230	900	2,032	657	263	23.6	725	1,542	5,379

Product Data Continued				
Part No.	Deflection @ TR MWL	CIFO+ kV	Low Freq. Wet Withstand (min)	Critical Impulse Withstand (min)
NPP 20 XG 05S	0.1	105	30	105
NPP 20 XG 07S	0.1	125	45	125
NPP 20 XG 11S	0.2	170	60	170
NPP 20 XG 15S	0.7	225	80	225
NPP 20 XG 19S	0.8	280	100	280
NAA 100 XH 16S0	0.7	390	180	390
NPP 20 XG 27S	1.5	390	145	390
NAA 100 XH 23S0	2.9	610	300	610
NAA 100 XH 29S0	4	710	380	710
P2 50 50 053 BXSS 026	4.8	810	450	810
P2 53 53 070 BBSS 033	7.6	1,010	590	1,010

Transmission Insulators

H1 - 2.0" Core Rod

H1-VX Series are Standard MPS Line Posts for lower strength applications. End fittings, bases, lengths, and leakage are designed to customer specific applications. Corona Ring information available on request.

Gain Base / Drop Tongue - Variable Leakage									
Part No.	Line Voltage kV	Section Length mm	Rubber Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO+ kV	CIFO- kV
H1 90 10 010 AXSS 003	25-35	3,039	6,451	16,256	8,387	139	120	236	306
H1 90 10 010 BXSS 004	25-35	13,039	6,451	19,489	8,387	139	120	236	306
H1 90 10 010 CXSS 005	25-35	13,039	6,451	22,758	8,387	139	120	236	306
H1 90 10 014 AXSS 005	35-46	15,555	9,032	25,355	10,967	176	156	298	379
H1 90 10 014 BXSS 006	35-46	15,555	9,032	28,608	10,967	176	156	298	379
H1 90 10 014 CXSS 007	35-46	15,555	9,032	31,860	10,967	176	156	298	379
H1 90 10 018 AXSS 006	46-69	18,064	11,612	31,186	13,551	213	192	361	450
H1 90 10 018 BXSS 008	46-69	18,064	11,612	37,721	13,551	213	192	361	450
H1 90 10 018 CXSS 010	46-69	18,064	11,612	44,269	13,551	213	192	361	450
H1 90 10 022 AXSS 008	69	20,585	14,192	40,322	16,129	249	227	424	517
H1 90 10 022 BXSS 010	69	20,585	14,192	46,857	16,129	249	227	424	517
H1 90 10 022 CXSS 012	69	20,585	14,192	53,351	16,129	249	227	424	517
H1 90 10 026 AXSS 009	69	23,100	16,778	46,150	18,708	285	262	487	582
H1 90 10 026 BXSS 012	69	23,100	16,778	55,955	18,708	285	262	487	582
H1 90 10 026 CXSS 015	69	23,100	16,778	65,761	18,708	285	262	487	582
H1 90 10 030 AXSS 011	69	25,613	19,354	55,222	21,293	322	297	550	643
H1 90 10 030 BXSS 014	69	25,613	19,354	65,071	21,293	322	297	550	643
H1 90 10 030 CXSS 017	69	25,613	19,354	74,920	21,293	322	297	550	643
H1 90 10 034 AXSS 013	69-115	28,209	21,936	64,323	23,862	357	331	614	701
H1 90 10 034 BXSS 016	69-115	28,209	21,936	74,156	23,862	357	331	614	701
H1 90 10 034 CXSS 020	69-115	28,209	21,936	87,241	23,862	357	331	614	701
H1 90 10 038 AXSS 014	115	30,778	24,526	70,214	26,450	393	364	678	756
H1 90 10 038 BXSS 018	115	30,778	24,526	83,287	26,450	393	364	678	756
H1 90 10 038 CXSS 022	115	30,778	24,526	96,387	26,450	393	364	678	756

Gain Base / Drop Tongue - Variable Leakage			
Part No.	Cantilever Load (kg) MDCL	Cantilever Load (kg) SCL	Tensile Load (kg) STL
H1 90 10 010 AXSS 003	558	1,116	1,440
H1 90 10 010 BXSS 004	558	1,116	1,440
H1 90 10 010 CXSS 005	558	1,116	1,440
H1 90 10 014 AXSS 005	436	873	1,440
H1 90 10 014 BXSS 006	436	873	1,440
H1 90 10 014 CXSS 007	436	873	1,440
H1 90 10 018 AXSS 006	358	716	1,440
H1 90 10 018 BXSS 008	358	716	1,440
H1 90 10 018 CXSS 010	358	716	1,440
H1 90 10 022 AXSS 008	308	615	1,440
H1 90 10 022 BXSS 010	308	615	1,440
H1 90 10 022 CXSS 012	308	615	1,440
H1 90 10 026 AXSS 009	266	532	1,440
H1 90 10 026 BXSS 012	266	532	1,440
H1 90 10 026 CXSS 015	266	532	1,440
H1 90 10 030 AXSS 011	233	466	1,440
H1 90 10 030 BXSS 014	233	466	1,440
H1 90 10 030 CXSS 017	233	466	1,440
H1 90 10 034 AXSS 013	211	422	1,440
H1 90 10 034 BXSS 016	211	422	1,440
H1 90 10 034 CXSS 020	211	422	1,440
H1 90 10 038 AXSS 014	189	379	1,440
H1 90 10 038 BXSS 018	189	379	1,440
H1 90 10 038 CXSS 022	189	379	1,440

H2 - 2.5" Core Rod

H2-MX Series are standard MPS Line Posts for standard strength applications. Various end fittings and bases can be selected depending on the application. Corona Ring information available on request.

Gain Base / Drop Tongue - Molded Leakage									
Part No.	Line Voltage kV	Section Length mm	Rubber Length mm	Leakage mm	Dry Arc mm	60 Hz Dry Flashover kV	60 Hz Wet Flashover kV	CIFO+ kV	CIFO- kV
H2 90 10 015 MXSS 008	46	658.9	381	1,082	449.6	183	163	309	392
H2 90 10 019 MXSS 010	46-69	762	482.6	1,351.3	551.2	219	198	371	461
H2 90 10 023 MXSS 012	69	863.6	584.2	1,621	650.2	254	232	432	527
H2 90 10 027 MXSS 014	69	965.2	685.8	1,890.8	749.3	290	266	495	589
H2 90 10 031 MXSS 016	69-115	1,041.4	787.4	2,159	848.4	325	300	557	649
H2 90 10 035 MXSS 018	115	1,143	889	2,428.2	947.4	360	333	618	705
H2 90 10 039 MXSS 020	115-138	1,244.6	990.6	2,695	1,046.5	395	366	680	759
H2 90 10 043 MXSS 022	115-138	1,346.2	1,092.2	2,948.9	1,145.5	429	398	742	809
H2 90 10 047 MXSS 024	138-161	1,447.8	1,193.8	3,233.4	1,244.6	464	429	804	857
H2 90 10 050 MXSS 026	138-161	1,524	1,270	3,502.7	1,343.7	498	461	866	912

Gain Base / Drop Tongue - Variable Leakage			
Part No.	Cantilever Load (kg) MDCL	Cantilever Load (kg) SCL	Tensile Load (kg) STL
H1 90 10 010 AXSS 003	865	1,730	3,086
H1 90 10 010 BXSS 004	714	1,429	3,086
H1 90 10 010 CXSS 005	620	1,240	3,086
H1 90 10 014 AXSS 005	534	1,069	3,086
H1 90 10 014 BXSS 006	480	960	3,086
H1 90 10 014 CXSS 007	426	854	3,086
H1 90 10 018A XSS 006	390	782	3,086
H1 90 10 018 BXSS 008	356	713	3,086
H1 90 10 018 CXSS 010	328	655	3,086
H1 90 10 022 AXSS 008	312	625	3,086

Line Post Base

ECL offers a variety of bases for your Line Post needs.

- Bendable Base** Formed steel base that mates with an anchor end fitting of the insulator via 2 mounting bolts. Bendable bases come in gain and flat designs, with 0 degree and 12 degree upsweep angles, as required. (0 degree upsweep design is intended for braced post application only.)
- Fixed Base** Cast iron base that mates with a 5" bolt circle end fitting of the insulator (4 bolts). Where the bendable designs allow for some articulation of the insulator, the fixed base does not. The fixed design comes in gain and flat designs, with a standard 12 degree upsweep angle.
- Gain Base** Base design used to mate the insulator to a round pole surface. This base is attached to the pole through the center bolt mount holes.
- Flat Base** Base design used to mate the insulator to a flat surface, using either the 4 bolt holes along the ears of the base, or the 2 centre mount bolt holes.



Transmission Suspension Insulators



S1 Series Insulators									
Part No.	Voltage	Dim "X"	Dry Electrical Flashover kV 60 Hz	Wet Electrical Flashover kV 60 Hz	CIFO+ kV	CIFO- kV	Section Length mm	Dry Arc mm	Leakage mm
S1 40 80 025 VXSS 009	46, 69	25	283	255	491	527	919	716	1,478
S1 40 80 025 VXSS 015	46, 69	25	283	255	491	527	919	716	2,070
S1 40 80 031 VXSS 012	69, 115	31	340	307	589	629	1,072	869	1,928
S1 40 80 031 VXSS 017	69, 115	31	340	307	589	629	1,072	869	2,421
S1 40 80 036 VXSS 016	69, 115	36	388	349	669	712	1,199	996	2,449
S1 40 80 036 VXSS 021	69, 115	36	388	349	669	712	1,199	996	2,449
S1 40 80 042 VXSS 014	115, 138	42	445	399	764	810	1,351	1,148	2,403
S1 40 80 048 VXSS 024	115, 138, 161	42	502	447	857	906	1,351	1,300	3,541
S1 40 80 048 VXSS 031	115, 138, 161	48	502	447	857	906	1,504	1,300	4,232
S1 40 80 054 VXSS 011	115, 138, 161	54	559	495	949	1,001	1,656	1,453	2,413
S1 40 80 054 VXSS 021	115, 138, 161	54	559	495	949	1,001	1,656	1,453	3,399
S1 40 80 054 VXSS 027	115, 138, 161	54	559	495	949	1,001	1,656	1,453	3,990
S1 40 80 062 VXSS 014	161	62	635	556	1,071	1,126	1,859	1,656	2,911
S1 40 80 066 VXSS 030	161	66	673	586	1,131	1,188	1,961	1,758	4,590
S1 40 80 066 VXSS 036	161	66	673	586	1,131	1,188	1,961	1,758	5,182
S1 40 80 072 VXSS 011	161	72	730	630	1,221	1,279	2,113	1,910	2,870
S1 40 80 072 VXSS 040	161	72	730	630	1,221	1,279	2,113	1,834	5,728
S1 40 80 072 VXSS 047	161	72	730	630	1,221	1,279	2,113	1,910	6,419
S1 40 80 078 VXSS 017	161	78	788	674	1,310	1,370	2,266	2,062	3,614
S1 40 80 078 VXSS 029	161	78	788	674	1,310	1,370	2,266	2,062	4,796
S1 40 80 078 VXSS 043	161	78	788	674	1,310	1,370	2,266	2,062	6,175





 ECL

INSULATORS

Insulator Accessories

ACTS Series Trunnions - Aluminium

Part No.	Clamping Range mm
ACTS-057	5.8 - 14.5
ACTS-084	8.89 - 21.33
ACTS-118	12.7 - 29.97
ACTS-150	23.62 - 38.1
ACTS-200	38.1 - 50.8



Transpower Trunnions

Part No.	Description	Clamping Range mm
3LO11421	Aluminium Trunnion Clamp	Aluminium trunnion (10mm-30mm)
3LO11420	Galv Trunnion clamp	Galv trunnion clamp for l.p.i. (6mm-20mm)



Ductile Iron / Bronze Trunnion

Part No.	Material	Width mm
FCTS-084	Ductile Iron	8.89 - 21.84
FCTS-150	Ductile Iron	23.62 - 38.1
LPS-118-F	Ductile Iron	12.7 - 29.972
LPS-57-B	Bronze	6.35 - 14.478
LPS-57-F	Ductile Iron	6.35 - 14.478
LPS-86-B	Bronze	8.89 - 21.844



Pivot Support Clamps

The pivoting design allows for flexible positioning and secure attachment to a trunnion head.

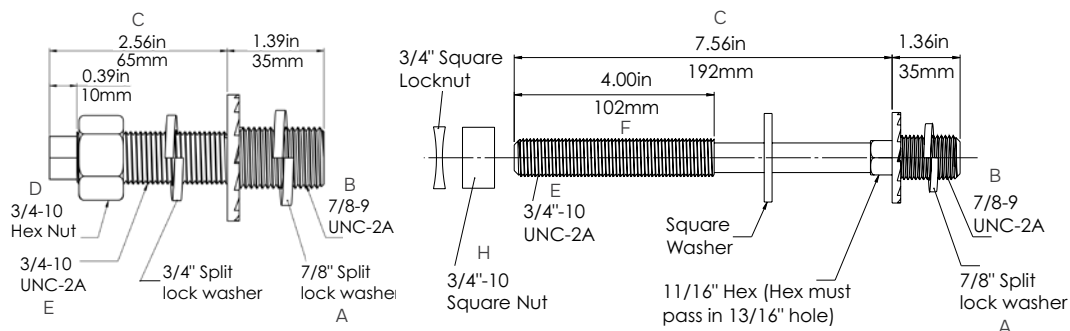
Part No.	Clamp Range mm	Material	Width mm
3LPS-118F	12.7 - 29.972	Ductile Iron	133.35
3ACTS-118	12.7 - 29.97	Aluminium	133.35
3ACTS-150	23.62 - 38.1	Aluminium	133.35
3LO11421	10 - 30	Aluminium	135
3LO11420	6 - 20	Galv trunion clamp	135



Studs

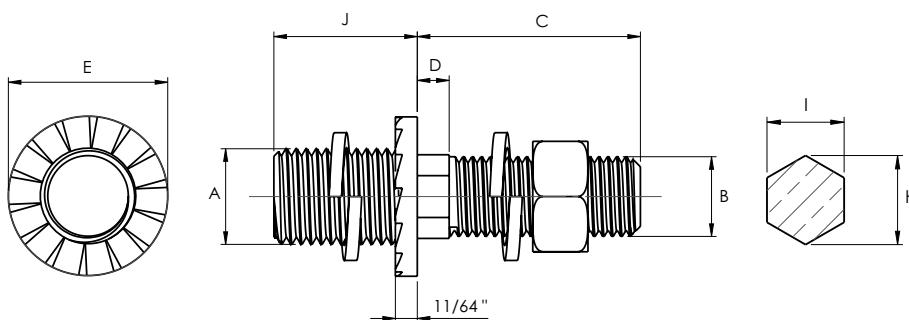
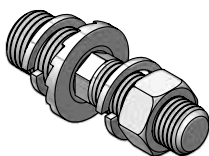
Line Post Studs are used to secure post insulators to crossarms (wood or steel).

Material Forged steel stud, hot dip galvanised.



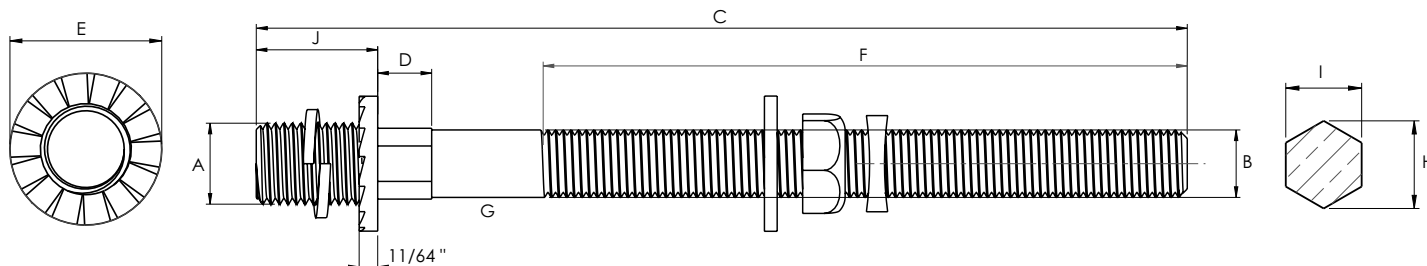
Dimensions								
Part No.	A in (mm)	B in	C in (mm)	D in	E in	F in (mm)	G in (mm)	H in
P22354	7/8 (22.0)	7/8 - 9 UNC	2.56 (205)	3/4-10	3/4-10 UNC		2-1/4 (57)	
P22355	7/8 (22.0)	7/8 - 9 UNC	7.56 (192)		3/4-10 UNC	4 (120)	2 (50)	3/4-10 UNC

Short Shank - For Steel Arms & Line Post Brackets



Dimensions (in)									
Part No.	A	B	C	D	E	F	H	I	J
J25247.1	3/4	5/8	1 3/4	1/4	1 1/4	full	21/32	9/16	1 1/8
J25249.1	3/4	3/4	1 3/4	1/4	1 1/4	full	25/32	11/16	1 1/8
J25251.1	7/8	7/8	2	1/2	1 1/2	full	29/32	13/16	1 3/8

Long Shank - For Wood Poles & Crossarms



Dimensions (in)										
Part No.	A	B	C	D	E	F	G	H	I	J
J25248.1	3/4	5/8	7 1/2	1/2	1 1/4	6	2 1/4	21/32	9/16	1 1/8
J25248.3	3/4	5/8	10	1/2	1 1/4	6	curved	21/32	9/16	1 1/8
J25248.4	3/4	5/8	12	1/2	1 1/4	6	3 curved	21/32	9/16	1 1/8
J25248.9	3/4	5/8	10	1/2	1 1/4	6	2	21/32	9/16	1 1/8
J25248.10	3/4	5/8	12	1/2	1 1/4	6	2	21/32	9/16	1 1/8
J25248.11	3/4	5/8	14	1/2	1 1/4	8	2	21/32	9/16	1 1/8
J25248.25	3/4	5/8	6	1/2	1 1/4	4	2	21/32	9/16	1 1/8
J25248.26	3/4	5/8	10	1/2	1 1/4	6	4	21/32	9/16	1 1/8
J25250.1	3/4	3/4	7 1/2	5/8	1 1/4	4	2 1/4	25/32	11/16	1 1/8
J25250.6	3/4	3/4	10	5/8	1 1/4	6	2 1/4	25/32	11/16	1 1/8
J25250.36	3/4	3/4	12	5/8	1 1/4	6	2 1/4	25/32	11/16	1 1/8
J25250.37	3/4	3/4	14	5/8	1 1/4	8	2 1/4	25/32	11/16	1 1/8
J25250.46	3/4	3/4	16	5/8	1 1/4	8	2 1/4	25/32	11/16	1 1/8





 **ECL**
DEVICES

Temporary Disconnects

Ultra-light Temporary Disconnect Line Tension Switch

The Firon line tension switch is ideal where temporary line sectionalising is required; it eliminates the need for pole mounted switches and reduces "pole clutter". With a tested momentary of 40kA RMS (asymmetrical) and a current rating of 900 amps continuous, the switches are available in ratings from 15 through 69 kV.

Load Buster Hook

Heavy duty galvanized steel Loadbuster™ hook is fastened to the jaw assembly with stainless steel fasteners for 15 to 34kV units.

Blade Opening Limits

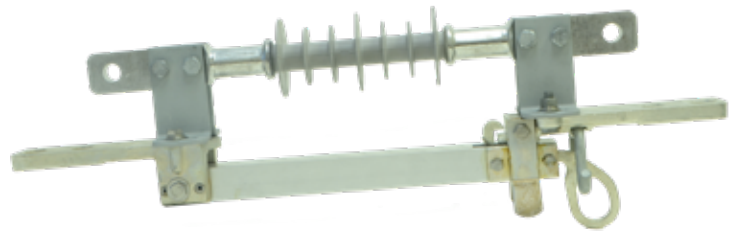
Two blade openings are available: 90 degrees and 180 degrees, the standard is a 180 degree opening, which is recommended for line switches. If a 90 degree blade opening is required, it should be requested at the time of order placement.

Large Pull Ring and Latch

With the large tin plated, bronze pull ring located beyond the end of the switch blade, the switch in operation requires minimum effort to open or close (maximum leverage) and also provides the ultimate in operator control. A slight pull on the operating ring, transfers motion to the protected, tin plated spring-loaded latch, which initiates a pry out or ice breaking action to assist opening of the switch. The spring loaded latch provides the security of blade closure retention when exposed to short circuit currents and vibration.

Earth Spigot

Each unit is supplied with a bronze earth spigot for temporary earth connection.



Line Tension Switch Specifications

Part No.	Rated Voltage	Current		Nominal BIL	Flashover 60hz		Creepage Distance mm	Dry Arc Distance mm
		Rated	MOM		Dry	Wet		
TW15900TB	15kV	900A	40,000A	145kV	100kV	70kV	385	195
TW34900TB	34kV	900A	40,000A	230kV	130kV	110kV	704	318





Cutouts

Polymer Cutouts

MPS Cutouts are designed for use on overhead distribution systems to provide over-current protection and a visible indication of fuse operation. Over-current protection safeguards an electric system from excessive currents produced by abnormal conditions such as line and equipment overloads, faults or equipment failures.

- Assembled and distributed from York, SC USA
- MPS offers stainless steel options for coastal environments
- Synthetic fuse tube standard
- All copper current path prevents corrosion and promotes low resistance current transfer
- Meets IEEE 2016 Standard

- Features:**
- E-Glass fibreglass core for mechanical strength
 - One-piece crimped-on end fittings & robust center-bracket
 - MPS's silicone polymer has been proven in high-voltage applications with transmission insulators
 - Over-mold polymer housing onto end fittings provides superior sealing against moisture ingress
 - Polymer body and shed pattern meets IEC TS 60815 guidelines for severe contamination environments
 - Heavy-duty top contact with dimple prevents over-closure
 - Non-expendable fuse-tube cap construction eliminates extra expense of fuse-tube cap replacement

- Options:**
- Brackets- NEMA and Extended Versions
 - Conductor Connectors- Parallel Groove or Eye-bolt designs
 - Stainless steel hardware components for extra corrosion and contamination protection
 - Blade designs for switching applications



Ratings

Rated Voltage (kV)	15, 27 and 38
BIL (kV)	110 - 170
Continuous Current (A)	100-300
Interrupting (A, Asym Rating)	8,000- 16,000

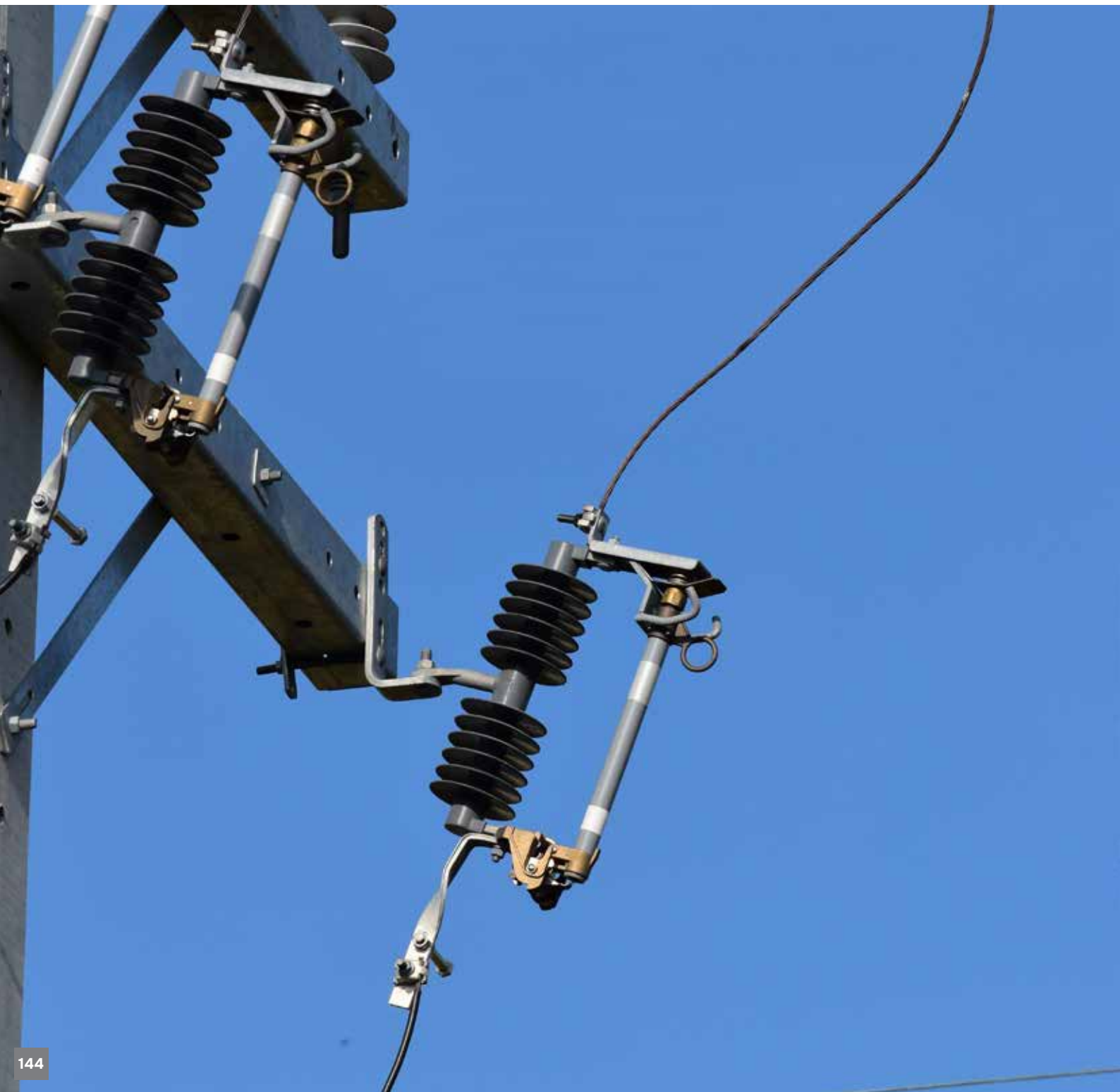
Quick Look - Common Cutouts for NZ

Nominal kV: / Maximum kV:	25.0 kV / 27.0 kV	25.0 kV / 27.0 kV
BIL: Basic Impulse Level	150 kV	150 kV
Continuous Current:	100 amp	100 amp
Interrupting /Momentary:	8,000 amp	12,000 amp
PG Clamp / Nema Bkt	SC27SG108-CD	SC27SG112-CD
PG Clamp / No Bracket	SC27SG108-D	SC27SG112-D
EyeBolt / Nema Bkt	SC27SG108-CM	SC27SG112-CM
EyeBolt / No Bracket	SC27SG108-M	SC27SG112-M

Part no.	Nominal Rating kV	Max. Rating kV	BIL Rating	Cont. Rating (Amps, RMS)	Interrupting/ Momentary (Asym.) Rating (Amp, RMS)	Approx. Fuse Tube Length mm	Leakage Distance to Ground mm
SC15HG110-CD	14.4	15	110	100	10,000		
SC15HG110-CM	14.4	15	110	100	10,000	287	376
SC15HG110-D	14.4	15	110	100	10,000		
SC15HG110-M	14.4	15	110	100	16,000		
SC15HG116-CD	14.4	15	110	100	16,000	287	376
SC15HG116-D	14.4	15	110	100	16,000		
SC15HG116-M	14.4	15	110	200	12,000	287	376
SC15HG212-D	14.4	15	110	200	12,000		
SC15HG212-M	14.4	15	110	300	Solid Blade	287	376
SC15HG300-D	14.4	15	110	300	Solid Blade		
SC15HG300-M	25	27	150	100	8,000	376	483
SC27SG108-D	25	27	150	100	8,000		
SC27SG108-M	25	27	150	100	12,000	376	483
SC27SG112-D	25	27	150	100	12,000		
SC27SG112-M	25	27	150	200	10,000	376	483
SC27SG210-D	25	27	150	200	10,000		
SC27SG210-M	25	27	150	300	Solid Blade	376	483
SC27SG300-D	25	27	150	300	Solid Blade		
SC27SG300-M	25	27	150	300	Solid Blade	376	483

Polymer Cutouts - Fuse Tubes

Fuse Tubes	Nominal Rating kV	Max. Rating kV	BIL Rating	Cont. Rating (Amps, RMS)	Interrupting/ Momentary (Asym.) Rating (Amp, RMS)	Approx. Fuse Tube Length mm
89521R10	14.4	15	110	100	10,000	287
89531R12	14.4	15	110	100	16,000	287
89532R10	25	27	150	100	12,000	376
89572R11	25	27	150	200	10,000	376
89621R10	14.4	15	110	300	Solid Blade	287
89622R10	25	27	150	300	Solid Blade	376



LV Service Fuse Carrier Series 30, Hand Operated

- Features:**
- 100Amp Rating
 - Accepts either 22mm or 30mm Fuse Cartridges
 - Casings moulding from impact resistant, flame-retardant polymers that display excellent tracking resistance
 - Heavy gauge current components to ensure minimum temperature rise and optimum heat dissipation
 - Simple and safe cable connection methods. The back wire version featuring screwdriver access without the need to disassemble the fuse base
 - Sealing tabs designed to allow easy application of sealing wire
 - Anti intrusion barrier (AIB) feature available. Note: add AIB to part number for anti-intrusion barrier when ordering
 - Available in standard black, clear and colours available at additional cost
 - Tested to comply with the requirements of AS/NZS 60269 and AS2005



Part No.	Current Rating	Voltage	Conductor Range	Fuse Link Diameter	Connection type	Power Acceptance	Pack Size
F-1036 B/W	100Amp	500 volt	To 35mm ²	22mm	Back Wired	9.5 Watts	20
F-1038 F/W	100Amp	500 volt	To 35mm ²	22mm	Front Wired	9.5 Watts	20

Fused Disconnect Switches - 160Amp

Used as fuse protection points on LV distribution transformers and or as a network switching point, as well as a protection point for an overhead service installation, servicing an industrial or commercial property, with a calculated demand of up to 160Amp.

- Features:**
- Enclosures are manufactured using impact, weather, and UV resistant polymers, to ensure long service life in the harshest of conditions
 - Up to 160 Amp rating
 - Accommodates Din Type fuse links sizes 00 to 2
 - Max power dissipation of 34 watts
 - Cable terminations are nickel plated and coated with corrosion inhibiting compound
 - Accommodates both copper and aluminium cables from 16mm² to 95mm²



Part No.	Current Rating	Voltage	Conductor Range mm ²	Connection type	Pack Size
F-160-14SS	160Amp	500 volt	16-95	End entry	1
F-160-1BKT	Single unit pole bracket suitable for the F-160 product range				
F-160-3BKT	Three unit pole bracket suitable for the F-160 product range				





Fibreglass Crossarms

UVMAXX™

**DURABILITY.
PROTECTION.
PERFORMANCE.**

MacLean™
POWER SYSTEMS



Crossarms UVMAXX Series

The new UVMAXX crossarm lineup sets the industry standard in durability and delivers the longest life product in its category. MacLean have maximised every element of our foam core cross arm to meet all standards in lab testing and the real world.

- Key features**
- Our best-in-class Duracast mounting hardware system outperforms welded solutions eliminating the chance of premature failure due to poor welds
 - Field drillable design
 - Lighter, safer, stronger, and more environmentally friendly than wood solutions



FIELD DRILLABLE

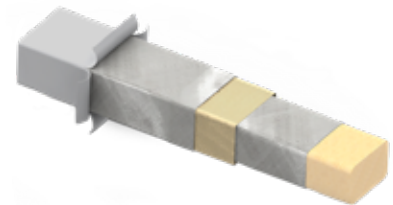
Designed for adaptability in the field, allowing for easy on-site drilling without inserts.

Significantly lighter in weight than traditional wood assemblies and delivered pre-assembled, UVMAXX ensures a more efficient installation process while maintaining superior strength and longevity.



PROTECTION

The Duracore beam bonds the UV protective layer directly to the core structure, eliminating the need for painting while ensuring that there are no entry points for corrosion. Painted systems allow corrosion to enter once nicked or scratched.



PERFORMANCE

The composition of UVMAXX™ Fibreglass Composite Crossarms allow for a field drillable design and provide optimum performance.

Lighter, safer, stronger, and also environmentally friendly - unlike wood crossarms that are coated with harmful chemical preservatives.

UVMAXX™

DURAFORCE

The unique Duraforce composite fibreglass design increases rigidity resulting in 45% less deflection and a longer lifecycle than our competition.



DURALOC

The Duraloc endcaps mechanically lock into the beam vs. the use of foamcore fill to attach endcaps. This mechanical locking system greatly reduces endcap failures.



DURACORE

The Duracore beam incorporates UV protective layers into the structure ensuring that there are no entry points for degradation. While painted systems allow degradation to occur if nicked or scratched, the Duracore beam is resilient and eliminates the need for painting.



Maximum Protection

Outer Veil for the ultimate UV protection.

Maximum Longevity

UV inhibitors through all layers of fibreglass core ensure unparalleled service life.

Maximum Performance

Radial corners are safer for linemen and improve rigidity to reduce deflection over other options.

Polyester composition adds rigidity resulting in 45% better deflection than other brands and reduces weight 25-50% over wood.

Maximum Strength

Fibreglass mat provides beam rigidity and strength to dramatically reduce load deflection.

Maximum Usability

High density closed cell foam guards against pest ingress allowing for field drilling without the need for inserts.

Crossarms UVMAXX Series

UVMAXX Braced arms offer a 1:1 replacement with existing wood offerings. Arms will assemble to the pole with traditional braces. They can be used for either tangent or deadend applications and use traditional hardware. The UVMAXX Braced crossarms are set apart by taking advantage of the same UVMAXX UV and Fire resiliency system that brace less arms do.

- 50% weight reduction over wood alternatives
- 80+ year life expectancy
- UL94 V-0 flame retardancy rating
- Foam Filled for pest control
- Field Drillable
- Environmentally friendly

UVMAXX Braced arms come in traditional 3.625" x 4.625" profiles as well as 4" x 6". RUS listed varieties will come predrilled to TYPE 03, TYPE 04, or TYPE 05. Custom Hole patterns and lengths are also available.

Note: Available in custom hole patterns and lengths, contact the ECL team for more information.



PX Series - Commonly used sizes					
Part No.	Length Imperial ft	Length Metric m	Wall thickness mm	Beam Size W x H mm	Weight kg
PX06	6	1.8	5	92 x 117	9.3
PX07	7	2.1	5	92 x 117	10.1
PX08	8	2.4	5	92 x 117	10.7
PX10	10	3	5	92 x 117	13.3
PX11	11	3.4	5	92 x 117	14.6

PW Series - Commonly used sizes					
Part No.	Length Imperial ft	Length Metric m	Wall thickness mm	Beam Size W x H mm	Weight kg
PW06	6	1.8	8	92 x 117	11.6
PW07	7	2.1	8	92 x 117	13.5
PW08	8	2.4	8	92 x 117	15.4
PW10	10	3	8	92 x 117	19.5
PW11	11	3.4	8	92 x 117	21.2



WEIGHT

The UVMAXX Fibreglass Crossarms weigh up to 1/2 as much as traditional wood crossarms.



STRENGTH

The UVMAXX Fibreglass Crossarms are greater in strength than traditional wood crossarms.



FIRE RESILIENCY

The UVMAXX Fibreglass Crossarms has a fire rating of UL94 V-0 and will self extinguish in less than 2 seconds.



LONGEVITY

The UVMAXX Fibreglass Crossarms last 80+ years versus 20-40 years with traditional wood crossarms.



Bushing Guards

Wildlife/Bird Guards

Reliaguard® Bushing Guards are designed to stay in place. Retention of the guard once applied is a critical design feature to be considered. Reliaguard guards are manufactured with a superior closure design to ensure the bushing guards stay where they are installed. The lock fastener included with each guard provides an optional method of ensuring guards can't be inadvertently dislodged. Overlapping fingers to prevent birds and animals from using gaps to store food or nesting materials.

Covers can accommodate conductor exiting at various angles. Manufactured from a proprietary material known as Reliatanium™ Reliatanium achieves a V-0 flammability classification, the highest rating for the UL-94 test standard.



Part No.	Description
RELBC15008	Reliaguard #5 medium Bushing Guard - Mesh
RELBC16005	Reliaguard #5 small Bushing Guard - Small Base - Mesh 1.8"
RELBC15023	Reliaguard #7 Mesh Bushing Guard

Recloser Kits

Bird and animal contact risk points on reclosers commonly exist between energised bushings of adjacent phases and when reclosers are configured in close proximity to support structures. By fully protecting the energised connections of recloser bushings, which includes covering bare conductors, contact risks can be eliminated.

Reliaguard® Recloser Kits effectively enclose bushing connections and are designed to ensure long-term retention. The push fastener included with each guard provides an optional method of safeguarding guards from being inadvertently opened and dislodged. EEL Slider application tool included.

Features:

- Superior closure design ensures guards stay on
- Guards accommodate many conductor exit angles
- Solid or mesh options
- Drainage holes in solid covers for horizontal insulators
- Option to include additional arrester guards not shown



Part No.	Description	Compatibility	Bushing Qty	Conductor Cover in (mm)
RCK-12001K	Recloser Kit V-ST (Viper ST) - Solid	G&W Viper	6	0.75" (19) OD ¹
RCK-12006K	Recloser Kit V-ST (Viper ST) - Mesh	G&W Viper	6	0.75" (19) OD ¹
RCK-12020K	Recloser Kit - VSTLA (w/ LA) (Viper ST) *	G&W Viper	6	0.75" (19) OD ¹
RCK-12201K	Recloser Kit - NVA - Solid (4' (1,219mm) C.C.)	Cooper Nova	6	0.75" (19) OD ¹
RCK-12207K	Recloser Kit - NVA - Mesh (4' (1,219mm) C.C.)	Cooper Nova	6	0.75" (19) OD ¹
RCK-12210K	Recloser Kit Single SPE - Solid (4' (1,219mm) C.C.)	Cooper Nova/Spear	2	0.75" (19) OD ²
RCK-12215K	Recloser Kit Single SPE - Mesh (4' (1,219mm) C.C.)	Cooper Nova/Spear	2	0.75" (19) OD ²
RCK-13001K	Recloser Kit ELAB - Solid (4' (1,219mm) C.C.)	Elastimold/ABB	6	0.75" (19) OD ¹
RCK-13005K	Recloser Kit ELAB - Mesh (4' (1,219mm) C.C.)	Elastimold/ABB	6	0.75" (19) OD ¹
RCK-13006K	Recloser Kit ELAB - Mesh (4' (1,219mm) C.C.-.500" max)	Elastimold/ABB	6	0.50" (12) OD ¹
RCK-13101K	Recloser Kit Single ELAB - Solid (4' (1,219mm) C.C.)	Elastimold/ABB	2	0.75" (19) OD ²
RCK-13105K	Recloser Kit Single ELAB - Mesh (4' (1,219mm) C.C.)	Elastimold/ABB	2	0.75" (19) OD ²
RCK-13106K	Recloser Kit Single ELAB - Mesh (4' (1,219mm) C.C.-.375" (9.5mm) max)	Elastimold/ABB	2	0.375" (9.5) OD ²

For other Recloser Kit options, please contact the ECL team.

GREYEEL™ Conductor Cover

Protecting conductors is an essential component when applying effective guards to prevent animal and bird caused outages. Reliaguard's GreyEEL Conductor Cover helps prevent contacts by eliminating gaps in coverage. The product's improved protection is achieved with a significantly overlapped seam design and material memory technology that supports exceptional closure performance.

The ergonomically designed and easy to use EEL Slider Application tool optimises safety, dexterity and the speed of applying GreyEEL.

Part No.	Description	Conductor Range Size mm	Roll Length m
PGEH12.5	12.5mm (1/2") Grey Eel Silicone Line Hose	9.5-12.5mm	15
PGEH19	19mm (3/4") Grey Eel Silicone Line Hose	12.7-18.9mm	15
PGEH25	25mm (1") Grey Eel Silicone Line Hose	19-25mm	15
PGEH9.5	9.5mm (3/8") Grey Eel Silicone Line Hose	5.1- 9.3mm	15

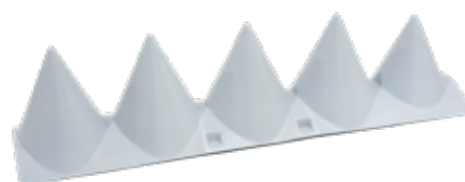


Perch Preventer

Reliaguard Perch Preventer is designed to discourage birds from landing or nesting on power line structures. The product can be used individually or in multiples, which would use an interlocking cone concept, to extend over long distances. Can be mounted to round or flat structures. Perch Preventer is made from our Reliatanium material which has excellent electrical properties and is also UV stable as well as Flame Retardant with a rating of UL-94 V-0.

Features:

- Discourages both perching and nesting
- Can be extended to any length
- Can be mounted to many different types of surfaces
- Made from Reliatanium FR, UV Stable
- Excellent electrical properties
- Stackable for easy storage



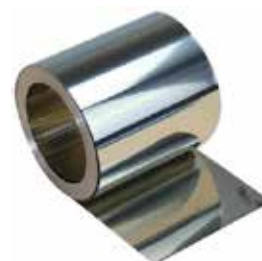
Part No.	Description	Height mm	Width mm	Depth mm	Pack Size
PP-10010	Perch Preventer	180.3	831.8	190.5	6

Possum Guard - Aluminium

A safe and humane way to prevent possums and other animals from accessing the electrical network.

Please contact the ECL team to discuss your requirements.

Part No.	Description	Width mm	Thickness mm	Roll Length m
3PSG	Aluminium Possum Guard	600	0.45	25



Wildlife Hot Stick Disc

The Reliaguard Wildlife Hot Stick Disc is a barrier used to isolate climbing animals thus preventing them from making a phase to ground contact. Wildlife Hot Stick Discs are typically used on poles and substations. These guards protect birds, possums, and other wildlife from contact with energised risk points. The contact risk points are typically from a phase to ground contact.

Features:

- Simple, one-step energised installation or removal
- No assembly required, reusable
- Easily field trimmed to suit a wide range of insulator/bushing diameters



Part No.	Description	Outside diameter in (mm)	Inside Diameter in (mm)	Width in (mm)	Pack Size
PD-0624	Wildlife Hot Stick Disc - 24	24 (609.6)	2.5-6.0 (63.5-152.4)	0.5 (12.7)	8
PD-0620	Wildlife Hot Stick Disc - 20	20 (508)	2.5-6.0 (63.5-152.4)	0.5 (12.7)	8
PD-0616	Wildlife Hot Stick Disc - 16	16 (406.4)	2.5-6.0 (63.5-152.4)	0.5 (12.7)	12

Voltage Regulator Kit

Regulators typically have reduced clearances because of their characteristic design and how they are commonly configured. These nominal clearances create a high risk for bird and animal contact. The high cost of replacing a regulator is another reason why it is crucial to protect such an important system asset.

Reliaguard® Regulator Guards offer complete coverage of energised components including series arresters and brackets, bushing terminals, and wire connectors. Reliaguard Regulator Guards have an overlapping design to ensure there are no gaps in coverage.

Features:

- Designed for Cooper 50 amp to 400 amp, and Cooper 500 amp
- Complete comprehensive coverage of the insulator and shunt connections, no gaps
- Adjustable design



Part No.	Description	Height in (mm)	Diameter in (mm)	Additional Dimension in (mm)	Pack Size
RK-11001K	Voltage Regulator Kit - C400 ¹	12 (304.8)	6.3 (160)	2.75 (69.9) base port	1
RK-11002K	Voltage Regulator Kit - C500 ²	14.5 (368.3)	9.25 (247.7)	3.50 (88.9) base port	1





Crimp Tooling



Mini Battery Powered 6 Ton Crimp Tool

A small, but powerful battery operated portable tool designed for efficient and precise crimping applications.

Key features:

- Lightweight, Easy Operation
- Two Stage Hydraulic Pump, 6 Ton Output
- Interchangeable Dies
- Swiveling Crimp head
- Perfect Crimp Operation
- 18V 5.0 Ah Li-Ion Battery
- Supplied Complete with Carry Case and dies
- Will crimp from 6mm² to 185mm²

Part No.	Length mm	Weight kg
BCLPB185L	395	2.5



Dubuis Battery Powered 12 Ton Crimp Tool

A cutting-edge, portable tool designed for efficient and precise crimping applications. The tool boasts a durable construction and ergonomic design, ensuring comfortable use over extended periods.

Key features:

- Comes with 2 x 18V LI 5.0 Amp batteries, charger, carry case, shoulder strap
- Light weight design making it easy to be carried around on the job
- Rotatable crimp head
- Interchangeable with dies Cu up to 400mm, AL up to 300mm
- USB connections for data analysis & preventive maintenance with dedicated software
- Certified in accordance with NEN-EN-IEC 61914:2009

Part No.	Crimping Force kN	Jaw Opening mm	Length mm	Weight kg
BCLD1301	130	26	395	6.8
BCLD1303	130	38	425	7.35



Hex Hand Crimp Tool - 6 to 50mm²

One of the most popular hand crimper's on the market. With its small, lightweight design and featuring a rotating self-contained hex die set, this is an ideal asset for any electrician.

Key features:

- Compact lightweight design at just over 1kg!
- Crimping range of 6mm² up to 50mm² copper

Standard Duty Version

Part No.	Length mm	Applicable Range	Weight kg
CLCHM	390	6-50mm ²	1.7

Heavy Duty Version

Part No.	Length mm	Applicable Range	Weight kg
CLCHM-HD	390	6-50mm ²	1.1



Hex Hand Crimp Tool - 10 to 120mm²

Featuring a rotating self-contained rotating hexagonal die set, making this a very versatile crimper for a large range of copper cable sizes from 10mm² up to 120mm²

Key features:

- Self-contained rotating crimp dies
- Crimps from 10mm² up to 120mm² copper

Standard Duty Version

Part No.	Length mm	Applicable Range	Weight kg
CLCHL	620	10-120mm ²	4.6

Heavy Duty Version

Part No.	Length mm	Applicable Range	Weight kg
CLCHL-HD	620	10-120mm ²	4



Hex Hand Crimp Tool - 6 to 120mm²

Designed with portability in mind, this crimper features a rotating self-contained hexagonal die set. You can also dismantle the crimper to fit in the carry case making this a very portable and versatile crimper.

Key features:

- Complete with removable handles and a hard plastic carry case
- Crimps 6mm² up to 120mm² copper

Part No.	Length mm	Applicable Range	Weight kg
CLC120NT	620	6-120mm ²	6



Nicopress Crimp Tool 6 to 16mm²

This crimper is a multi-groove toggle action hand tool. Recommended when several small diameter cables are being used.

Part No.	Description	Weight kg
CNP31EJ	Nicopress 31-EJ FTS Crimp Tool 6-16mm	1.1



Nicopress Crimp Tool 10 to 50mm²

Toggle action tools available in single and multi-groove. Useful when several small diameter cables are being used.

Part No.	Description	Weight kg
CNP51MJ	Nicopress 51-MJ Crimp Tool	2
CNP53XMJ	Nicopress 53-XMJ FTS Crimp Tool 10-50mm	2.3



Hand Hydraulic Crimp Tools - 12 Ton

Accommodating compression of copper and aluminium connectors up to 300mm². The crimp head accepts standard 12 tonne hexagonal dies. Tool is supplied in its own carry case.



Part No.	Jaw Opening mm	Crimping Force kN	Length mm	Weight kg
HC12T25	25	130	582	6.3
HC12T42	42	130	636	7.7

Hydraulic Crimp Head - 12 Ton

Specifically designed for getting into confined and tight spaces. This crimp head caters a large range of dies from 16mm² up to 400mm² Cu. All our hydraulic pumps will power this head.

Key features:

- Lightweight and small design assisting with manoeuvrability in tight areas
- Can be used with a large range of dies



Part No.	Jaw Opening mm	Length mm	Weight kg
HC12TR25	25	210	3.6
HC12TR42	42	245	4.8

Hydraulic Crimp Head - 18 Ton

One of the most versatile crimp heads on the market with its ability to use 18 Ton and 12 Ton crimp dies. A die adapter comes complete with this head to give you the flexibility to do from 16mm² up to 500mm² Cu, 500mm² AL.

Key features:

- Lightweight, reducing operator fatigue
- Can be used with large range of dies



Part No.	Crimping Range mm	Length mm	Weight kg
HCTP-630H	16-500mm ²	240	4.8

Hydraulic Crimp Head - 25 Ton

Designed for crimping a large range of cable connectors up to 630mm² Cu and up to 500mm² AL. Compatible with all our hydraulic pumps.

Key features:

- Lightweight, reducing operator fatigue
- Can be used with large range of dies

Part No.	Crimping Force mm	Weight kg
HCT25	25 Ton	5.5



Hydraulic Crimp Head - 30 Ton

For distribution and transmission applications the HC630A with its 30 Ton crimping force will handle up to 800mm² aluminium and 630mm² copper. The crimper features a flip top opening to allow insertion of the conductor and ease of die replacement.

Key features:

- Can crimp a large range of cable sizes
- Designed to be used with all our hydraulic pumps



Part No.	Crimping Force mm	Length mm	Weight kg
HC630A	30 Ton	370	25

Note: If you are interested in a foam insert heavy duty carry case, please contact us for availability.

Hydraulic Crimp Head - 60 Ton

Designed to crimp larger fittings. This unit allows you to change out different dies of choice to cater to a range of crimp sizes. For ease of cable access, it has a twist release head. This crimp head is designed to be used with the HP45 hydraulic pump.

Key features:

- Designed for crimping large connectors
- Interchangeable with a range of dies



Part No.	Dimensions	Range Stroke mm	Max Connector Diameter	Oil Volume	Pump Required	Weight kg
HC60HT	450mm high x 146mm diameter	38.5	Approx 60mm	303cc	Single Acting 10,000psi (700bar)	27.5

Hydraulic Crimp Head - 100 Ton

Designed for the larger transmission connectors in mind this crimp head will accommodate connectors up to 75mm diameter. Tool comes complete with its own carry handle, and a quick release head for easy cable entry. Requires double acting pump for operation e.g. HP45DA/HP45.

Key features:

- Powerful crimp head for crimping large connectors
- Interchangeable with a range of dies



Part No.	Dimensions	Range Stroke mm	Max Connector Diameter	Oil Volume	Pump Required	Weight kg
HC100HT	350mm high x 200mm diameter	22	Approx 75mm	314cc	Double Acting 10,000psi (700bar)	32

Compression Dies



Copper Dies - 12 Ton

Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	Cu Cable Size mm ²	A/F (Across Flat) mm
D16CU	16	6.3
D25CU	25	7.7
D35CU	35	9.2
D50CU	50	10.4
D70CU	70	11.5
D95CU	95	14.2
D120CU	120	16.5
D150CU	150	18.3
D185CU	185	20.0
D240CU	240	23.1
D300CU	300	26.0
D400CU*	400	28.1

*The D400CU Die may not be compatible with all Crimp Tools.



Aluminium Dies - 12 Ton

Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	AL Cable Size mm ²	A/F (Across Flat) mm
DA25/35	25/35	9
DA50/70	50/70	13.2
DA95/120	95/120	17.3
DA150/185	150/185	22.0
DA240/300	240/300	28.4

Aluminium Dies – CDA Type - 12 Ton

These dies are designed for overhead named conductors. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	AL Size	A/F (Across Flat) mm
ECDA3	25/35	12.4
ECDA4	35/50	13.7
ECDA5	70	17.9
ECDA6	95/120	22.0
ECDA7	150/185	25.4
ECDA8	240	28.1
ECDA9	300/400	32.3



Note: If the size you are looking for isn't displayed on this page, please contact the team at ECL.

*Across flat is the measurement between two parallel crimped faces.

Die Kit - 12 Ton

A complete die kit for 25mm² up to 300mm² aluminium and copper.

Supplied with foam insert and plastic carry case.

Part No.	Description
DKIT	Crimp Die Set, 25-300mm ² Cu, 25-300mm ² AL

Aluminium Dies - 18 Ton

Designed for our 18 Ton crimp head HCTP-630H. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	AL Cable Size mm ²	A/F (Across Flat) mm
DALTP240/300	240/300	28.4
DALTP400/500	400/500	39.0

Copper Dies - 18 Ton

Designed for our 18 Ton crimp head HCTP-630H. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	Cu Cable Size mm ²	A/F (Across Flat) mm
DCLTP240	240	23.1
DCLTP300	300	26.0
DCLTP400	400	28.1
DCLTP500	500	31.0



Note: If the size you are looking for isn't displayed on this page, please contact the team at ECL.

*Across flat is the measurement between two parallel crimped faces.

Aluminium Dies - 25 Ton

Designed for our 25 Ton crimp head HCT25. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	AL Cable Size mm ²	A/F (Across Flat) mm
DAL25-150/185	150/185	22.0
DAL25-240/300	240/300	28.4
DAL25-400/500	400/500	39.0

Copper Dies - 25 Ton

Designed for our 25 Ton crimp head HCT25. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	Cu Cable Size mm ²	A/F (Across Flat) mm
DCL25-150	150	18.3
DCL25-185	185	20.0
DCL25-240	240	23.1
DCL25-300	300	26.0
DCL25-400	400	28.1
DCL25-500	500	31.0
DCL25-630	630	37.0



Note: If the size you are looking for isn't displayed on this page, please contact the team at ECL.

*Across flat is the measurement between two parallel crimped faces.

Aluminium Dies - 30 Ton

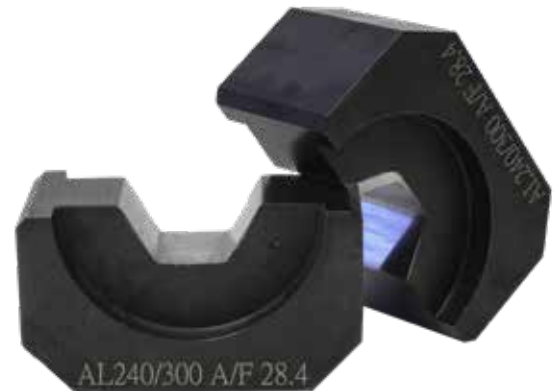
Designed for our 30 Ton crimp head HC630A. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	AL Cable Size mm ²	A/F (Across Flat) mm
DAL150/185	150/185	22.0
DAL240/300	240/300	28.4
DAL400/500	400/500	39.0
DAL630/800	630/800	43.2

Copper Dies - 30 Ton

Designed for our 30 Ton crimp head HC630A. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	Cu Cable Size mm ²	A/F (Across Flat) mm
DCL120	120	16.5
DCL150	150	18.3
DCL185	185	20.0
DCL240	240	23.1
DCL300	300	26.0
DCL400	400	28.4
DCL500	500	31.0
DCL630	630	37.0



Note: If the size you are looking for isn't displayed on this page, please contact the team at ECL.

*Across flat is the measurement between two parallel crimped faces.

Aluminium Dies - 60 Ton

Designed for our 60 Ton crimp head HC60HT. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	AL Cable Size mm ²	A/F (Across Flat) mm
DAL60400500	400/500	39.0
DAL60630800	630/800	43.2

Copper Dies - 60 Ton

Designed for our 60 Ton crimp head HC60HT. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Part No.	Cu Cable Size mm ²	A/F (Across Flat) mm
DCL60300	300	26.0
DCL60400	400	28.1
DCL60500	500	31.0
DCL60630	630	37.0



Note: If the size you are looking for isn't displayed on this page, please contact the team at ECL.

*Across flat is the measurement between two parallel crimped faces.

Aluminium Dies - 100 Ton

Copper Dies - 100 Ton

Designed for our 100 Ton crimp head HC100HT. Crafted from high-quality hardened steel, which imparts exceptional strength, durability, and wear resistance. Each die is marked with its applicable cable sizing or A/F (Across Flat)* measurement. This is engraved on the die face which stamps onto the connector allowing for easy verification.

Note: Available on request, please contact the ECL team.



Copper C Connector Dies

Made from high-quality hardened steel giving exceptional wear resistance.

Part No.	Description
DCT26	C Connector Die 26mm
DCT44	C Connector Die 44mm
DCT60	C Connector Die 60mm
DCT76	C Connector Die 76mm
DCT98	C Connector Die 98mm
DCT122	C Connector Die 122mm
DCT154	C Connector Die 154mm
DCT190	C Connector Die 190mm
DCT240	C Connector Die 240mm
DCT288	C Connector Die 288mm
DCT365	C Connector Die 365mm





Cable Cutting Tools



Battery Powered Hydraulic Cable Cutter

Powerful high performance battery powered cable cutter designed for standard copper and aluminium cables. Light weight and compact design.

Key features:

- Complete with carry case, 2 x 18V Li-Ion batteries, charger
- Compact, lightweight design



Part No.	Max. blade opening Dia. mm	Max AL Cable mm ²	Max Cu Cable mm ²	Weight kg
HCCB54	52	500	400	2.7

Note: Not to be used on ACSR or Wire Rope.

Ratchet Cable Cutter - Up to 400mm²

Small enough for a toolbox with the ability to cut larger sized cables. Can cut a range of XLPE and sector URD cables.

Key features:

- Extremely lightweight at under 1kg
- Large cable cutting range



Part No.	Max. blade opening Dia. mm	Max AL Cable mm ²	Max Cu Cable mm ²	Length mm	Weight g
RCC500S	42	400	400	240	960

Note: Not to be used on ACSR or Wire Rope.

Ratchet Cable Cutter - Up to 1000mm²

Use with large single core XLPE and multicore URD cables. This cutter will handle up to 1000mm² single core and 300mm² sector URD cables.

Key features:

- Extremely lightweight at under 3.5kg
- Large cable cutting range



Part No.	Max. blade opening Dia. mm	Max AL Cable mm ²	Max Cu Cable mm ²	Length mm	Weight kg
BCC1000A	65	1,000	1,000	550	3.5

Note: Not to be used on ACSR or Wire Rope.

Ratchet ACSR Cutter

Ratchet ACSR Cutter capable of doing up to 30mm diameter ACSR cables.



Part No.	Max. ACSR O.D. mm	Max. AL & Cu cable mm ²	Max. Soft Steel Bar below SS41 O.D. mm	Length mm	Weight kg
RCCACSR	30	25	10	420	1.6

Compact Cable Cutter - Up to 25mm²

A compact and portable tool designed for cutting cables up to 25mm². Its small size and lightweight construction make it easy to carry and use in tight spaces or on-the-go.

Key features:

- Small design enabling you to carry it anywhere

Part No.	Max. AL & Cu Cable mm ²	Length mm	Weight g
BCC22B	25	160	200

Note: Not to be used on ACSR or Wire Rope.



Compact Cable Cutter - Up to 70mm²

With heavy duty forged steel handles, this cutter is compact enough for the tool box but still able to cut a range of smaller copper and aluminium cables up to 70mm².

Key features:

- Compact design
- Sharp heavy duty forged steel jaws

Part No.	Max. AL & Cu Cable mm ²	Length mm	Weight g
BCC70	70	235	500

Note: Not to be used on ACSR or Wire Rope.



ACSR Cutter

Specifically designed jaws to cut through ACSR cable, but not limited to just this. Also capable of cutting spring wire, aluminium and copper cable, and steel bar.

Key features:

- Heavy duty hardened jaws
- Aluminium handles to assist with weight reduction

Part No.	Max. ACSR O.D. mm	Max. AL & Cu cable mm ²	Max. Steel Bar O.D. mm	Length mm	Weight kg
BCC210AC	16	150	9	600	2.1



Wire Rope Cutter

Hardened jaws give the ability to cut through steel rod, wire rope and a number of aluminium and copper cable sizes. Aluminium handles reduce weight.

Key features:

- Heavy duty hardened jaws
- Aluminium handles to assist with weight reduction

Part No.	Max. blade opening Dia. mm	Max. AL & Cu cable mm ²	Max. Steel Bar O.D. mm	Max. Wire Rope Dia. mm	Length mm	Weight kg
BCC200AC	21.6	150	9	14	600	2.6

Note: Not to be used on ACSR or Wire Rope.



Anti-Voltage Cable Cutters - Fibreglass handle

For cutting cables in potentially hazardous electrical environments, it has an anti-voltage rating of 1000V. Versatile and reliable tool for cutting various types of cables with ease. Strong and lightweight FRP (fibre-reinforced plastic) handles, provide excellent grip and manoeuvrability, reducing user fatigue during prolonged use.

Key features:

- Anti-voltage rating of 1000V
- Fibreglass handles making it light weight
- Can cut a large range of cable sizes



Part No.	Max AL Cable mm ²	Max Cu Cable mm ²	Length mm	Weight kg
BCC150FH	150	150	444	1.3
BCC516FH	500	240	648	2.5

Note: Not to be used on ACSR or Wire Rope.

Hand Hydraulic Cable Cutter Head

Robust cable cutter with swivel head, capable of cutting a large range of aluminium, copper and sector URD cables. Ideal if you're out on site without an easily accessible power source.

Key features:

- Fibreglass handle to assist with weight reduction
- 5 Ton output
- Complete with strong carry bag



Part No.	Max. O.D CCP cable	Max. O.D URD cable	Max. O.D Cu conductor	Max. O.D AL conductor	Length mm	Weight kg
HCC85FR	85	50	28	38	695	6

Note: Not to be used on ACSR or Wire Rope.

Hydraulic Cable Cutter Head

For precise cutting of large aluminium, copper and sector URD cables. With its robust construction and heavy-duty design, this cutting head can handle a wide range of cable diameters, making it an ideal solution for out on site. To be used with the HPSEP-12, HP35RH and the HP45 hydraulic pumps.

Key features:

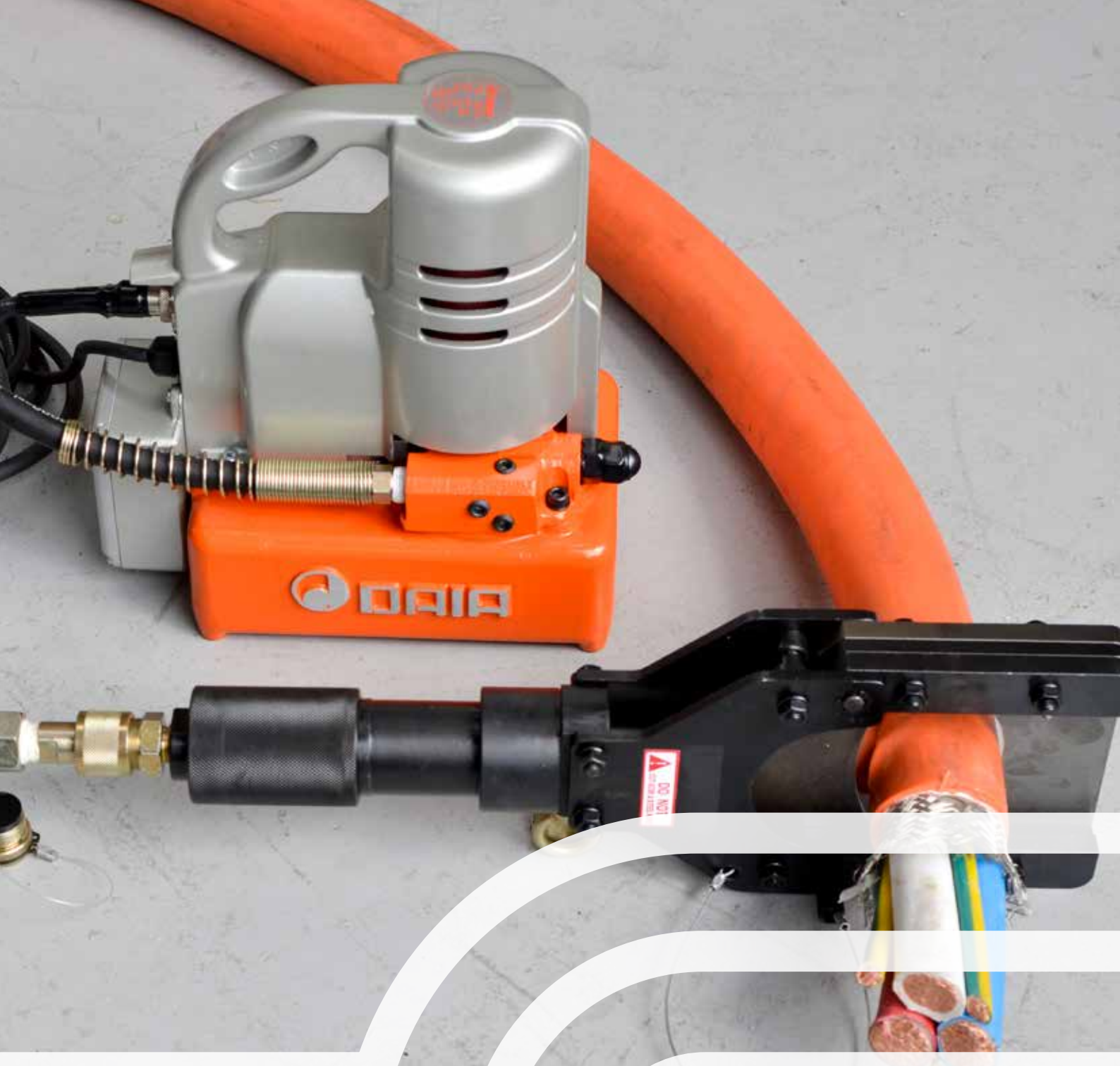
- Complete with strong carry bag
- Large cable cutting capabilities



Part No.	Max. O.D CCP cable	Max. O.D URD cable	Max. O.D Cu conductor	Max. O.D AL conductor	Length mm	Weight kg
HCHT-85	85	50	28	38	456	8

Note: Not to be used on ACSR or Wire Rope.

Larger sizes available on request, please contact the ECL team.



 **ECL**
TOOLING
PRODUCTS

Hydraulic Pumps

HPSEP-12 Compact Hydraulic Pump

Compact size for ease of transport and manoeuvrability. Complete with a 2m hydraulic hose, coupler, hand remote and compatible with a large range of tools.

Key features:

- Compact design to make it easier to transport and manoeuvre
- Hand remote for ease of use and making it safer for the operator
- Compatible for use with a large range of crimp tools, cutters and busbar processors

Please contact the team at ECL if you are interested in:

1. A foam insert heavy duty carry case.
2. Foot switches to operate the pump.



Part No.	Motor	Power Supply	Usable Oil Capacity	Max. Working Pressure	Weight kg
HPSEP-12	0.4kW	230V	1.2 litre	700bar	7.5
HPSEP-12FS	Foot Switch				

HP35RH Compact Light Weight Hydraulic Pump

One of the smallest and lightest hydraulic pumps on the market, the HP35RH is designed for mobile use and features shoulder straps for ease of carrying. The HP35RH delivers a full 700bar pressure and has enough oil capacity to power all ECL crimp and cutter heads models. Pump comes complete with push button remote.

Key features:

- Lightweight and still delivers the full 700 bar pressure
- Can power all our crimp and cutter heads
- Comes with a hand remote and shoulder strap for the pump

Foot switches to operate the pump are available on request.



Part No.	Motor	Power Supply	Dimensions	Usable Oil Capacity	Max. Working Pressure	Weight kg
HP35RH	0.35KW 2000rpm	230V	L325 x W140 x H160mm	0.8 litre	700bar	7.2

HP45 2-Stage High Flow Hydraulic Pump

Compact 2-stage high flow pump providing portability and flexibility for many varied hydraulic tooling applications. Manufactured with an easy carry handle, the pump comes complete with a remote control pendant.

HP45: Hydraulic Pump Single Acting.

HP45DA: Hydraulic Pump Double Acting.

Key features:

- Suitable for our 100T crimp head



Part No.	Dimensions	Motor	Power Supply	Usable Oil Capacity	Max Working Pressure	Weight kg
HP45	L230 x W212 x H341mm	0.45kW	230V	2.0 Litre	1st stage 70 bar, 2nd stage 700bar	17
HP45DA	L230 x W212 x H341mm	0.45kW	230V	2.0 Litre	1st stage 70 bar, 2nd stage 700bar	17

HP700 Hydraulic Hand Pump

Two stage hand pump capable of delivering 700bar for hydraulic crimp and cutter heads. Ideal for sites that don't have a power supply. Includes 2m of hose.

Key features:

- Hand operated yet still enough pressure to power our cutter and crimp heads



Part No.	Length mm	Capacity	Output	Weight kg
HP700	510	900cc	700 bar	9

HPFS700 Hydraulic Foot Pump

Two stage foot pump capable of delivering 700bar for hydraulic crimp and cutter heads. Comes complete with 2m hose and coupler.

Key features:

- No motor for the pump means it is lightweight and portable
- Foot operated making it ideal when there is no power source available



Part No.	Length mm	Capacity	Output	Weight kg
HPFS700	474	700cc	700 bar	10





**TOOLING
PRODUCTS**

Crimp Tool Hire

Contact ECL if you need to hire a crimper to complete a job.
We offer up to a 30T crimp tool, complete with the dies you require.
To book your slot please contact the ECL team.



 **ECL**
TOOLING
PRODUCTS

Specialised Tooling

Cable Pulling Socks

- For medium load of cable

Part No.	Cable Dia. mm	Breaking Load kg
PS2537	25-37	4,350
PS3750	37-50	7,440
PS5063	50-63	8,390
PS6075	60-75	11,110
PS7588	75-88	11,110

More sizes available on request. Please contact the ECL team.



Cable Pulling Socks c/w Rotating Pulling Eye

- For heavy duty cable
- Rotating head not a swivel

Part No.	Cable Dia. mm	Breaking Load kg
PSKG1015	10-15	2,540
PSKG2537	25-37	5,810
PSKG3750	37-50	7,440
PSKG5063	50-63	12,340
PSKG6375	63-75	14,970

More sizes available on request. Please contact the ECL team.



Pulling Swivels

Swivel Joint Advantages:

- Prevent winding and tangling during pull
- Safety factor of 3:1 for horizontal pull only
- Protect pulling rope
- Secure the screw

Part No.	Safety Load Tonne	Breaking Load Tonne
PSS36	4	12
PSS39	5	15
PSS42	6.7	20
PSS45	8.3	25
PSS52	13.3	40
PSS60	20	50
PSS62	20.6	55



Ratchet Wrench Socket



Part No.	Description
ECRW41	Ratchet Wrench Socket 4 in 1, 10, 12, 16, 20mm

Ratchet Turnbuckle



Part No.	Description
FI-RTDF16	Ratchet Turnbuckle - for use with Temporary Disconnect switches

Conductor Wire Grips

0.5T Wire Grip

Wire Grip Cu Conductor, Covered Conductor,
Steel Rod 1-10mm Dia

Part No.	Safety Load Tonne	Min Cable Dia. mm	Max Cable Dia. mm	Weight kg
WG500G	0.5	1	10	0.3



1T Wire Grip

Wire Grip Cu Conductor, Covered Conductor, Steel Rod,
WL: 1T 2.6-15mm Dia

Part No.	Safety Load Tonne	Min Cable Dia. mm	Max Cable Dia. mm	Weight kg
WG1000C	1	2.6	15	0.6



2T Wire Grips

For Cu Cable Covered Conductor, Messenger wire

Part No.	Safety Load Tonne	Min Cable Dia. mm	Max Cable Dia. mm	Weight kg
WGS2000CL	2	4	22	1.4
WGS2000LCL	2	16	32	2.6



For Bare AL Cable and ACSR

Part No.	Safety Load Tonne	Min Cable Dia. mm	Max Cable Dia. mm	Weight kg
WGS2000AL	2	4	22	1.4

Note: More sizes available on request, please contact the ECL team.

Ratchet Web Strap Pullers



Part No.	Hooks	Safety Load Tonne	Lever Length mm	Full Length mm	Single Load Tonne	Double Load Tonne	Single Pull mm	Double Pull mm	Weight kg
RWSP1	2	1	370	1,080	-	-	-	-	3.4
RWSP1500/H2	2	1.5	460	1,080	-	-	-	-	3.6
RWSP1500	3	1.5	460	-	1	2	2,820	1,020	3.9

Note: More sizes available on request, please contact the ECL team.

Ratchet Wire Rope Pullers



Part No.	Hooks	Safety Load Tonne	Lever Length mm	Single Load Tonne	Double Load Tonne	Single Pull mm	Double Pull mm	Weight kg
RWRP1500	3	1.5	350	0.75	1.5	2,380	5,300	5.5

Note: More sizes available on request, please contact the ECL team.

BLUE STRIPE® Switch Hook Stick

The Switch Hook Stick is a heavy-duty alternative to a standard Shotgun stick when actuating sectionalizing loadbreak switches, or when high torque switching applications are required. The stick is constructed from 32mm closed cell, foam-filled fibreglass, features a 89mm dichromate-coated steel hook that aligns with our BLUE STRIPE®, and ends in a stainless steel T-handle or an optional spline end.

The BLUE STRIPE® Switch Hook Stick is available in custom lengths. Contact customer service for more information.



Part No.	Description
USSH-004	4' (1.2m) Blue Stripe® Switch Hook Stick
USSH-006	6' (1.8m) Blue Stripe® Switch Hook Stick
USSH-008	8' (2.4m) Blue Stripe® Switch Hook Stick
USSH-XXX-SE	Optional Spline End



Blue Stripe® Switch Hook Stick



BLUE STRIPE® Cable Hook Stick

The Cable Hook Stick enables safe and secure handling of installed underground cables. The high-visibility, tempered steel 127mm hook aligns with our BLUE STRIPE® for improved visibility and cable handling.

The stick is constructed from 32mm closed cell, foam filled-fibreglass and features a stainless steel T-handle or an optional shovel handle.

The BLUE STRIPE® Cable Hook Stick is available in custom lengths. Contact customer service for more information.

Part No.	Description
USCH-004	4' (1.2m) Blue Stripe® Cable Hook Stick
USCH-006	6' (1.8m) Blue Stripe® Cable Hook Stick
USCH-008	8' (2.4m) Blue Stripe® Cable Hook Stick
USCH-XXX-SH	Optional Shovel End



Optional Shovel End

Blue Stripe® Cable Hook Stick



URD Cap Stand™

The URD Cap Stand™ provides a simple and secure means of holding insulated caps when working with padmount transformers or switch gear. The adjustable design fits snugly over padgear lips up to 51mm wide, keeping the work area clear. The URD Cap Stand™ is available in single, dual or triple arm options. The dual and triple arm models have a convenient shotgun attachment.



URD CAP STAND™
Single Cap Holder



URD CAP STAND™
Double Cap Holder



URD CAP STAND™
Triple Cap Holder

Part No.	Description
USUC-001	URD CAP STAND™ Single Cap Holder
USUC-002	URD CAP STAND™ Double Cap Holder
USUC-003	URD CAP STAND™ Triple Cap Holder

Strip-N-Coil™

The Strip-N-Coil™ is a heavy-duty cable stripper designed for underground cable sizes from #2 through 750 MCM.

The Strip-N-Coil™ is made from hardened, dichromate-coated steel. The tool fits drills and impact drivers with a 11mm quick change chuck. The Strip-N-Coil™ does not use blades or require adjustments.



Part No.	Description
USCS-001	STRIP-N-COIL™ Cable Stripper

Temporary Earthing Clamps

Part No.	Description
ECSH120	Temporary Earth Clamp c/w Plastic Screwdriver Handle
EC867811	Temporary Earthing Clamp



Temporary Earth Clamp
w Plastic Screwdriver Handle



Temp Earthing Clamp

LOAD-RANGER® FLEX-LT™

The LOAD-RANGER® FLEX-LT™ is the latest innovation in load break tools. With a patented rotating FLEX head, the innovative design of the LOAD-RANGER® FLEX-LT™ allows a much broader range of operation than traditional load break tools, and greatly reduces or eliminates binding positions and tool stresses while improving flexibility when attaching the tool to an arcing horn.

Designed with linemen in mind, this product is coupled with the rotating FLEX head, the No-Pinch red reset trigger is located prominently on the side of the tool, making it easier to reset while wearing gloves. All tools are built with heavy duty components that are machined, not cast. The tool has been rigorously tested and will stand up to repeated use. The LOAD-RANGER® FLEX-LT™ is specifically engineered to be inspected and serviced in minutes using only 2 tools, saving time and money.

Available in 27 kV and 38 kV models.



1. FLEX head

Rotates 180 ° to significantly reduce binding positions

2. Lighter Weight

Machined parts offer a lightweight and robust design

3. Broadest Operation Range

Specially designed to have the broadest operation range of any load break tool available

Standard Overhead Arm

Part No.	Description	Maximum Voltage	Maximum Amperage	Weight kg
USLR-FLEX-1-H	27 kV with hard case	27kV	900 AMP	2.1
USLR-FLEX-1-C-H	27 kV with counter & hard case			
USLR-FLEX-2-H	38 kV with hard case	38kV		
USLR-FLEX-2-C-H	38 kV with counter & hard case			



Padmount Arm

Part No.	Description	Maximum Voltage	Maximum Amperage	Weight kg
USLR-FLEX-1-P-H	27 kV with padmount arm, extended hood & hard case	27kV	900 AMP	2.4
USLR-FLEX-1-C-P-H	27 kV with counter, padmount arm, extended hood & hard case			



Accessories

Accessories ordered separately on request, please contact the ECL team.



Hard case



Counter



Extended Hood



Padmount Arm & Extended Hood

BREAK-SAFE®

Load Break & Pick-up Tool

The patented BREAK-SAFE® is designed to add a functional and portable switch to a mechanical jumper. The BREAK-SAFE® has three operating functions:

- Load Break
- Continuous Current Duty
- Load Pick-Up

In order to keep personnel at a safe distance, the BREAK-SAFE® is operated with an insulated fibreglass hot stick for load break and load pick-up functions. The Yellow Safety Lock is also operated by a hot stick and helps prevent the tool from an unintended load break or pickup operation.

The BREAK-SAFE® is available in four models with either a Floating Head or a Duckbill:

- 15 kV / 300 amp
- 27 kV / 300 amp
- 38 kV / 300 amp
- 46 kV / 200 amp



Duckbill

Floating Head

Part No.	Description	System Voltage	Rating*	Closed Length mm	Open Length mm	Conductor Size	Diameter	Weight kg
USBS-15-1-PS	15 kV with floating head	15 kV	300 AMP	609	711	#6 Copper Min Up to 954 ACSR (28mm) Max	63.5mm Dia	3.3
USBS-15-2-PS	15 kV with floating head	15 kV	300 AMP	711	813			2.8
USBS-27-1-PS	27 kV with floating head	27 kV	300 AMP	711	851			3.5
USBS-27-2-PS	27 kV with floating head	27 kV	300 AMP	813	953			3.2
USBS-38-1-PS	38 kV with floating head	38 kV	300 AMP	838	1,041			3.8
USBS-38-2-PS	38 kV with floating head	38 kV	300 AMP	940	1,143			3.5
USBS-46-1-PS	46 kV with floating head	46 kV	200 AMP	1,078	1,359			4.6
USBS-46-2-PS	46 kV with floating head	46 kV	200 AMP	1,181	1,460			4.3

*Load Break, Load Pick-up, Continuous Current Duty

Accessories

Accessories ordered separately on request, please contact the ECL team.



Hard case



Soft case



BREAK-SAFE® 600

The BREAK-SAFE® 600 is a portable switch rated 27 kV / 600 amps for high current applications such as Load Break, Load Pick-Up, and Continuous Current Duty.

The extra large clamp is capable of handling all wire sizes up to nearly 88.9mm diameter. Dual conductor bars allow parallel jumpers to reach the 600 amp rating.



Part No.	Description	System Voltage	Rating*	Closed Length mm	Open Length mm	Conductor Size	Weight kg
USBS-15-1-PS	600 AMP with floating head	27 kV	600 AMP	838	1,024	Up to 89 Dia	5.5



Fuse-Safe™

The Fuse-Safe™ is a portable current-limiting fuse and fault protection tool. It offers better protection than temporary cutouts, and is easier to install. The Fuse-Safe™ can also add fault protection to our BREAK-SAFE® Load Break and Pick-up Tools. Available as a single unit with or without a fuse or as a complete 3-phase kit. For fuse options, please contact ECL.

Part No.	Description
USFS-001	Duckbill w/ 15.875mm dia. conductor bar (fuse sold separately)
USFS-002	15.875mm Conductor bar with customer specified fuse included
USFS-002-KIT-1	Three assembled USFS-001 units, each containing 15.5 kV & 25 AMP current limiting fuses (T&B # HTFX240025) with hard case*
USFS-003	Duckbill w/ 9.5mm dia. conductor bar (fuse sold separately)
USFS-004	Duckbill w/ 9.5mm dia. conductor bar with customer specified fuse



Accessories

Accessories ordered separately on request, please contact the ECL team.



Duckbill Head



Conductor Bar



Kit

BLUE STRIPE® Take-Apart Hot Sticks

The industry's first round, telescopic hot stick with removable sections. The same premium BLUE STRIPE® Fibreglass Hot Stick technology now with patented interlocking sections for easy removal. Removable sections offer versatility and easy maintenance, without binding or sticking. The CNC machined "no pinch" buttons are durable and easy to operate.



Part No.	Size m	Closed Length mm	Weight kg	Protective Bag
USTS-TA-016	4.9	1,550	1.8	USSB-008
USTS-TA-020	6.2	1,600	2.3	
USTS-TA-025	7.6	1,625	3.2	
USTS-TA-030	9.1	1,675	4.1	USSB-006
USTS-TA-035	10.6	1,730	4.9	
USTS-TA-040	12.2	1,750	6.1	
USTS-TA-045	13.7	1,800	7.4	

Accessories

Accessories ordered separately, please contact the ECL team



Non-Tip Lock
(Ground operable only)



Heavy duty rubber boot
(Available on 2.4m to 13.7m sizes)

Bucket Operable (Non Tip Lock)

Part No.	Size m	Closed Length mm	Weight kg	Protective Bag
USTS-TA-008	2.4	1,550	1	USSB-003 / USSB-001
USTS-TA-010	3	1,600	1.4	
USTS-TA-012	3.7	1,625	1.8	

BLUE STRIPE® Telescopic Hot Sticks

BLUE STRIPE® Fibreglass Hot Sticks are made with Epoxy resin, the superior choice for making hot sticks. Our sticks have excellent dielectric properties and resistance to water absorption, are easier to clean, and easier to repair. The Easy Tip Lock Replacement feature allows button replacement without sacrificing the foam-filled tip section, while the BLUE STRIPE® alignment feature helps to locate the CNC machined buttons.



Accessories (Non Tip Lock)

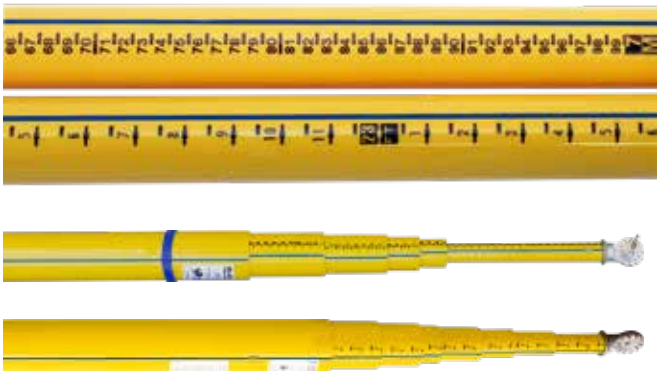
Part No.	Size m	Closed Length wmm	Base Diameter mm	No. of Sections	Operating Length m	Weight kg	Protective Bag
USTS-004	1.2	660	40.1	3	1.2	0.9	USSB-003
USTS-006	1.8	660	48	4	1.8	1.1	
USTS-008	2.4	660	53	5	2.4	1.6	
USTS-010	3	711	60.1	6	3	2.1	
USTS-012	3.7	762	66	7	3.7	2.5	

Accessories (Tip Lock)

Part No.	Size m	Closed Length wmm	Base Diameter mm	No. of Sections	Operating Length m	Weight kg	Protective Bag
USTS-016	4.9	1,420	30	4	4.8 3.6	1.8	USSB-005
USTS-020	6.2	1,470	48	5	6.4 5.2	2.3	
USTS-025	7.6	1,525	53	6	7.9 6.4 5.2	3	
USTS-030	9.1	1,575	58	7	9.1 7.9 6.4 5.2	4	USSB-008
USTS-035	10.6	1,600	66	8	10.6 9.1 7.9 6.4 5.2	5	
USTS-040	12.2	1,650	74	9	12.2 10.6 9.1 7.9 6.4	6	
USTS-045	13.7	1,675	79	10	13.7 12.2 10.6 9.1 7.9	7.5	
USTS-050	15.2	1,725	89	11	15.2 13.7 12.2 10.6 9.1	9	USSB-006
USTS-055	16.8	1,760	94	12	16.8 15.2 13.7 12.2 10.6	11.5	

BLUE STRIPE® Measuring Sticks

An all-in-one Measuring Stick and BLUE STRIPE® Hot Stick. The BLUE STRIPE® Measuring Sticks offer easy eye-level measuring while also functioning as fully-rated telescopic hot sticks. Large, clear Imperial and Metric measurements are available.



Part No. (Imperial)	Part No. (Metric)	Size m	Closed Length mm	Weight kg	Protective Bag
USTS-016-EM	USTS-016-MM	4.9m	1,420	1.8	USSB-005
USTS-020-EM	USTS-020-MM	6.2m	1,470	2.3	
USTS-025-EM	USTS-025-MM	7.6m	1,520	3	
USTS-030-EM	USTS-030-MM	9.1m	1,570	4	USSB-008
USTS-035-EM	USTS-035-MM	10.6m	1,600	5	
USTS-040-EM	USTS-040-MM	12.2m	1,650	6	
USTS-045-EM	USTS-045-MM	13.7m	1,670	7.5	USSB-006
USTS-050-EM	USTS-050-MM	15.2m	1,720	9	

Accessories

Accessories ordered separately on request, please contact the ECL team.



Plastic Hook End



Tip Lock



Heavy duty rubber boot
(Available in 2.4m to 13.7m sizes)



BLUE STRIPE® Heavy Duty Telescopic Hot Sticks

Designed for heavy duty pulling, pushing and twisting operations, the BLUE STRIPE® Heavy Duty Telescopic Hot Sticks features a 28mm diameter first section to provide additional strength. The machined spline end assembly is securely fastened to the handle for higher torque application.



Part No.	Size m	Closed Length m	Operating Length m	Weight kg	Protective Bag
USTS-HD-016	4.9	1.4	4.9 3.6	2.6	USSB-005
USTS-HD-020	6.1	1.47	6.4 5.2	3.4	
USTS-HD-025	7.6	1.5	7.9 6.4 5.2	4.3	
USTS-HD-030	9.1	1.57	9.1 7.9 6.4 5.2	5.3	USSB-008
USTS-HD-035	10.7'	1.6	10.7 9.1 7.9 6.4 5.2	6.5	
USTS-HD-040	12.2'	1.65	12.2 10.7 9.1 7.9 6.4	7.8	
USTS-HD-045	13.7'	1.7	13.7 12.2 10.7 9.1 7.9	8.8	USSB-006
USTS-HD-050	15.2	1.75	15.2 13.7 12.2 10.7 9.1	11.2	

Accessories

Accessories ordered separately on request, please contact the ECL team



Heavy duty rubber boot
(Available in 2.4m to 13.7m sizes)

BLUE STRIPE® Heavy Duty Substation Sticks

BLUE STRIPE® Substation Sticks are robust, compact and built for heavy duty substation applications. All Heavy Duty Substation sticks now come standard with a robust Rubber Boot.

- Features:**
- Dual Button Design for Added Strength
 - High Performance Closed Cell
 - Foam Filled Inner Section
 - Compact Telescopic Design
 - BLUE STRIPE® Alignment Feature



Dual button design



Part No.	Description	No. of Sections	Operating Lengths m	Collapsed Length m	Diameter mm	Weight kg
USTS-H02-DH-BOOT	Disconnected head	2	3.9 3.7 3.4 3	2.2	Inner: 32 Outer: 38	2.7
USTS-H02-SE-BOOT	Spline end with hot stick probe					
USTS-H02-SH-BOOT	Switch head					
USTS-H02-QC-BOOT	Quick connect head	3	5.6 5.3 5 4.7 4 3.7 3.4 3.1	2.3	Inner: 32 Middle: 38 Outer: 44	4
USTS-H03-DH-BOOT	Disconnect head					
USTS-H03-SE-BOOT	Spline end, hot stick probe					
USTS-H03-SH-BOOT	Switch head					
USTS-H03-QC-BOOT	Quick connect head					



Disconnect head



Spline end with hot stick probe



Switch head

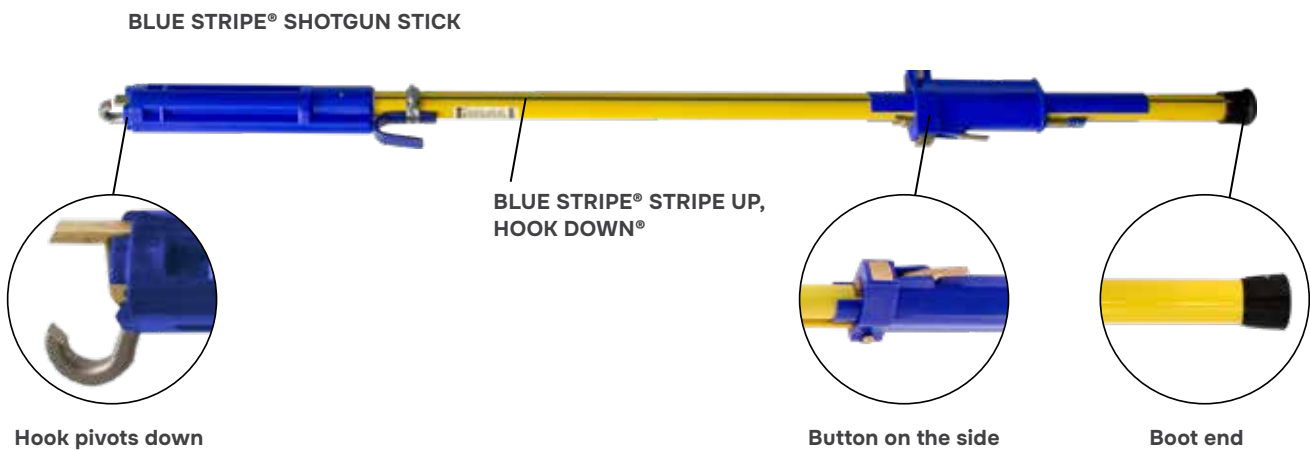


Quick connect hex head

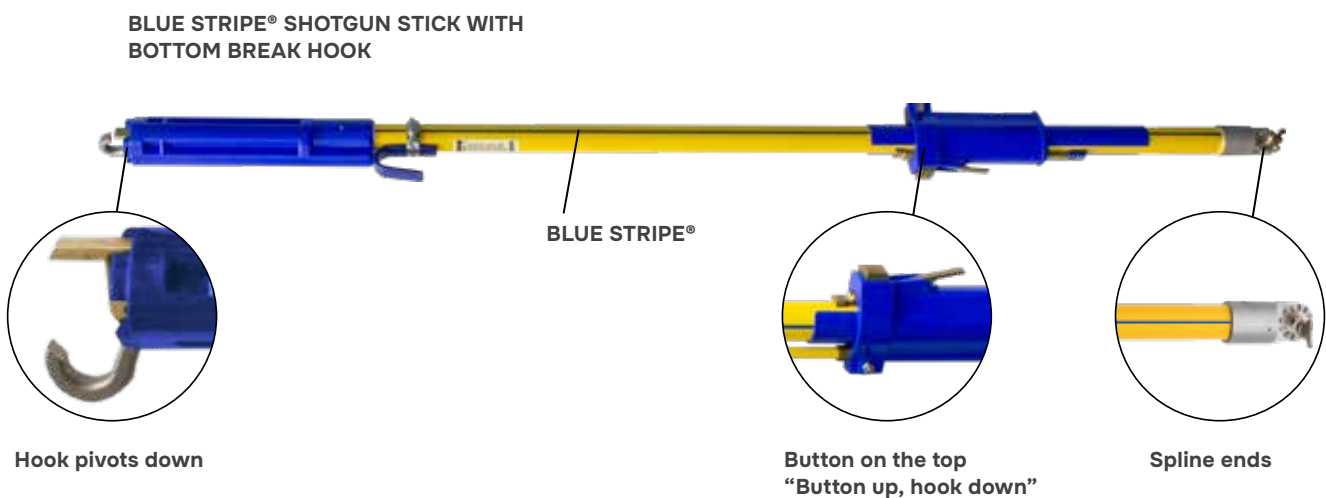
BLUE STRIPE® Shotgun Sticks

All BLUE STRIPE® Shotgun Sticks are available with two distinct operating handle orientations. The variations include a version with a side button (Standard) with the hook pivoting down and a bottom break hook (BBH) version. The bottom break hook option aligns the button and hook on the same plane for those who prefer “button up, hook down” functionality.

Standard BLUE STRIPE® Shotgun Sticks



Bottom Break Hook BLUE STRIPE® Shotgun Sticks



BLUE STRIPE® Shotgun Sticks

BLUE STRIPE® Shotgun Sticks are available in both internal and external rod, from 1.2m to 3.6m. Various end fitting configurations are available. Our BLUE STRIPE® Shotgun Sticks offer an innovative STRIPE UP, HOOK DOWN® feature. When the stripe is up, the stainless steel hook opens downward, minimising accidental drops.



With Rubber End Cap (EC)

Internal Rod	External Rod	Size m	Weight kg	Bag
USSG-004-IREC	USSG-004-EREC	1.4	1.9	USSB-005
USSG-006-IREC	USSG-006-EREC	2	2.4	USSB-007
USSG-008-IREC	USSG-008-EREC	2.6	2.7	USSB-009
USSG-010-IREC	USSG-010-EREC	3.2	3.1	USSB-011
USSG-012-IREC	USSG-012-EREC	3.8	4.3	USSB-012



With Spline End (SE)

Internal Rod	External Rod	Size m	Weight kg	Bag
USSG-004-IRSE	USSG-004-ERSE	1.4	2	USSB-005
USSG-006-IRSE	USSG-006-ERSE	2	2.5	USSB-007
USSG-008-IRSE	USSG-008-ERSE	2.6	2.8	USSB-009
USSG-010-IRSE	USSG-010-ERSE	3.2	3.2	USSB-011
USSG-012-IRSE	USSG-012-ERSE	3.8	4.4	USSB-012



With ½" Female Socket Adapter End (FA)

Internal Rod	External Rod	Size m	Weight	Bag
USSG-004-IRFA	USSG-004-ERFA	1.4	2.2	USSB-005
USSG-006-IRFA	USSG-006-ERFA	2	2.6	USSB-007
USSG-008-IRFA	USSG-008-ERFA	2.6	2.9	USSB-009
USSG-010-IRFA	USSG-010-ERFA	3.2	3.4	USSB-011
USSG-012-IRFA	USSG-012-ERFA	3.8	4.6	USSB-012



With Quick Connect Hex Head End (QC)

Internal Rod	External Rod	Size m	Weight kg	Bag
USSG-004-IRQC	USSG-004-ERQC	1.4	2	USSB-005
USSG-006-IRQC	USSG-006-ERQC	2	2.5	USSB-007
USSG-008-IRQC	USSG-008-ERQC	2.6	2.8	USSB-009
USSG-010-IRQC	USSG-010-ERQC	3.2	3.2	USSB-011
USSG-012-IRQC	USSG-012-ERQC	3.8	4.4	USSB-012



Accessories



USSA-HG1
Hand guard

BLUE STRIPE® Foam Filled Straight Sticks

BLUE STRIPE® Straight Sticks are designed to withstand daily use.

All straight sticks are manufactured from the highest quality electrical grade fibreglass and have the mechanical strength to meet the rigors of daily use. Each stick includes a convenient adjustable hanger and has an interior filled with a high-performance closed cell foam to prevent water absorption.

Custom sticks are available in any size and combination of end attachments. Contact the ECL team for more information about customised straight sticks.



BLUE STRIPE® Universal Straight Sticks (Rubber cap)

Internal Rod	Ends	Size m	Diameter	Bag
USSS-S-104	SPLINE END & RUBBER CAP	1.2	32mm	USSB-005
USSS-S-106		1.8		USSB-006
USSS-S-108		2.5		USSB-010
USSS-S-110		3		USSB-011
USSS-S-112		3.7	38mm	USSB-012
USSS-H-104		1.2		USSB-005
USSS-H-106		1.8		USSB-006
USSS-H-108		2.5		USSB-010
USSS-H-110		3		USSB-011
USSS-H-112		3.7		USSB-012

BLUE STRIPE® Universal Straight Sticks (Spline end)

Internal Rod	Ends	Size m	Diameter	Bag
USSS-S-204	SPLINE ENDS	1.2	32mm	USSB-005
USSS-S-206		1.8		USSB-006
USSS-S-208		2.5		USSB-010
USSS-S-210		3		USSB-011
USSS-S-212		3.7	38mm	USSB-012
USSS-H-204		1.2		USSB-005
USSS-H-206		1.8		USSB-006
USSS-H-208		2.5		USSB-010
USSS-H-210		3		USSB-011
USSS-H-212		3.7		USSB-012



BLUE STRIPE® Disconnect Head Sticks

Internal Rod	Size m	Diameter	Bag
USSS-004-EC/DH	1.2	32mm	USSB-005
USSS-006-EC/DH	1.8		USSB-006
USSS-008-EC/DH	2.5		USSB-010
USSS-010-EC/DH	3		USSB-011
USSS-012-EC/DH	3.7	38mm	USSB-012
USSS-H06-EC/DH	1.8		USSB-006
USSS-H08-EC/DH	2.5		USSB-010
USSS-H10-EC/DH	3		USSB-011
USSS-H12-EC/DH	3.7		USSB-012

BLUE STRIPE® Switch Head Sticks

Internal Rod	Size m	Diameter	Bag
USSS-004-EC/SH	1.2	32mm	USSB-005
USSS-006-EC/SH	1.8		USSB-006
USSS-008-EC/SH	2.5		USSB-010
USSS-010-EC/SH	3		USSB-011
USSS-012-EC/SH	3.7	38mm	USSB-012
USSS-H06-EC/SH	1.8		USSB-006
USSS-H08-EC/SH	2.5		USSB-010
USSS-H10-EC/SH	3		USSB-011
USSS-H12-EC/SH	3.7		USSB-012



BLUE STRIPE® Insulated Head Sticks

Internal Rod	Size m	Diameter	Bag
USSS-004-EC/IH	1.2	32mm	USSB-005
USSS-006-EC/IH	1.8		USSB-006
USSS-008-EC/IH	2.5		USSB-010
USSS-010-EC/IH	3		USSB-011
USSS-012-EC/IH	3.7	38mm	USSB-012



Disconnect head



Switch head



Insulated head

BLUE STRIPE® Link Stick

BLUE STRIPE® Link Sticks are available in various configurations. The Swivel Eye, Hook & Swivel Eye, and Hot Stick Operable Hook & Swivel Eye are load rated to 1,814kg, and feature 32mm diameter foam filled fibreglass.

- Applications:**
- Insulating strap hoists while tensioning lines
 - Insulating bucket jib while lifting or pulling lines



BLUE STRIPE® Link Stick with Swivel Eyes

Part No.	Fibreglass Length mm	Diameter mm	Load Limit kg
USLS-006-SWVL	152	32	1,814
USLS-012-SWVL	305		
USLS-015-SWVL	381		
USLS-018-SWVL	457		
USLS-024-SWVL	610		



BLUE STRIPE® Link Stick with Safety Hook & Swivel Eye

Part No.	Fibreglass Length mm	Diameter mm	Load Limit kg
USLS-006-HOOK	152	32	1814
USLS-012-HOOK	305		
USLS-015-HOOK	381		
USLS-018-HOOK	457		
USLS-024-HOOK	610		



BLUE STRIPE® Link Stick with Stick Operable Safety Hook & Swivel Eye

Part No.	Fibreglass Length mm	Diameter mm	Load Limit kg
USLS-006-STOP	152	32	1814
USLS-012-STOP	305		
USLS-015-STOP	381		
USLS-018-STOP	457		
USLS-024-STOP	610		



Next-level Performance

Removes the complexity from operating a safety hook with a hot stick.

CNC Machined Parts

Machined parts offer a higher quality than cast metal, allowing for longer lasting operation.

Uniquely Designed

Patent Pending design automatically charged and "locks" into place when aligned with the hook.

BLUE STRIPE® Link Stick Crossarm & Swivel Eye

The BLUE STRIPE® Link Stick with Crossarm & Swivel Eye is load rated to 680kg, constructed from 32mm diameter foam filled fibreglass and can be installed or removed via hot stick.

- Applications:**
- Insulating strap hoists while tensioning lines
 - Fitting directly around crossarms, eliminating the need to install a sling in order to create an attachment point



Part No.	Fibreglass Length mm	Diameter mm	Hook Size mm	Load Limit kg
USLS-022-XARM	559	32	127 (Fits crossarms up to 95 x 102)	680

BLUE STRIPE® Link Stick Pigtail Hook & Swivel Eye, Heavy Duty Pigtail & Swivel Eye

The BLUE STRIPE® Link Stick with Pigtail and Swivel Eye features 32mm diameter foam filled fibreglass, and can be installed or removed via hot stick.

- Applications:**
- Pulling and lifting line spans for creating work clearance or repositioning phases
 - Allows quick installation onto line without needing to operate a latch
 - Quicker installation than a regular hook in situations where a true positive lock is not necessary



Part No.	Fibreglass Length mm	Diameter mm	Load Limit kg	Conductor Size
USLS-006-PIG	152	32	907	Up to 25mm Diameter
USLS-012-PIG	305			
USLS-015-PIG	381			
USLS-018-PIG	457			
USLS-024-PIG	610			



Part No.	Fibreglass Length mm	Diameter mm	Load Limit kg	Conductor Size
USLS-006-HOG	152	32	1587	Up to 38mm Diameter
USLS-012-HOG	305			
USLS-015-HOG	381			
USLS-018-HOG	457			
USLS-024-HOG	610			

BLUE STRIPE® Conductor Lift & Swivel Eye

The BLUE STRIPE® Link Stick with Conductor Lift & Swivel Eye is load rated to 680kg, constructed from 32mm diameter foam filled fibreglass and accepts conductor sizes up to 32mm diameter. The Conductor Lift features a one piece machined aluminum frame which has a unique spring loaded gate. The Conductor Lift's gate operates without latches, locks or pins allowing it to quickly and easily clip on to conductors.

- Applications:**
- Allows smoother operation while moving along conductors
 - Specifically designed for construction, repairs and maintenance on overhead conductors



BLUE STRIPE® Link Stick with Conductor Lift & Swivel Eye

Part No.	Fibreglass Length mm	Diameter mm	Load Limit kg	Conductor Size
USLS-012-CL	305	32	680	Up to 32mm Diameter
USLS-024-CL	610			



Heavy Duty Pulley

Allows smoother operation while moving along conductors.



BLUE STRIPE® Discharge Hook

The BLUE STRIPE® Discharge Hook safely eliminates a static charge after de-energising. It is a 32mm diameter, 1.2m straight stick made of high performance closed cell foam and includes a tin plated copper “U” hook and 1.8m of copper cable attached to a 51mm aluminum “C” type clamp with serrated jaw.

Part No.	Description	Fibreglass Length	Diameter
USDH-004	Discharge hook	1.2m	32mm
USDH-001-SE	Discharge hook attachment with spline end	305mm	

WARNING: Discharge Hooks are not grounding tools as described by OSHA 1910.269(n) and carry no fault duty rating.



BLUE STRIPE® Rescue Hook

Rescue Hooks are available in a fixed model and a telescopic model. The fixed model is made of high performance, 32mm diameter closed cell foam filled fibreglass and includes a heavy duty rubber boot. The telescopic model has an internal 32mm diameter closed cell foam filled fibreglass section which collapses into a 44mm diameter outer section. Two machined buttons secure the Rescue Hook in the open position.

All models use a 457mm wide tempered steel hook that is powder-coated in high visibility yellow. The hook separates for freight purposes and convenient storage via the included Allen wrench and fasteners.

The BLUE STRIPE® Rescue Hook Spline option offers flexibility and is compatible with any universal end stick.

Part No.	Description	Size m
USRH-006	Standard rescue hook	1.8
USRH-008		2.4
USRH-010		3

Part No.	Description	Size m
USRH-T-006	Telescopic rescue hook	1.8
USRH-T-008		2.4

Part No.	Description
USSA-RHS	Rescue hook attachment with spine end
USRH-T-008	



BLUE STRIPE® Telescopic Stick Stopper

Made from durable EPDM rubber, the BLUE STRIPE® Telescopic Stick Stopper attaches to telescopic sticks from 4.8m to 15.2m. The 3-in-1 design installs in seconds.

- Features:**
- Provides a quick and easy lock system that keeps all sections collapsed
 - Creates a handle for removing from tubes, bins or other hard to reach places
 - Provides surface protection against abrasive storage locations

Part No.	Description	Accommodates Telescopic Sticks Measuring
USSA-SS1	Stick Stopper	4.8m - 6.1m
USSA-SS2		7.6m - 9m
USSA-SS3		10.7m - 12.2m
USSA-SS4		13.7m - 15.2m



Spline Torque Bar

The Spline Torque Bar allows an operator to apply increased torque at a safe distance to insulated fibreglass hot stick applications. It consists of 32mm foam filled insulated fibreglass with a foam grip for operator comfort. A specially designed universal end is precision CNC machined from aluminum grade bar stock for superior strength.

Part No.	Description
USSA-STB-018	457mm Torque bar spline attachment



BLUE STRIPE® Telescopic Range Pole

Available in 4.8m, 6.1m, and 7.6m, each BLUE STRIPE® Range Pole includes:

- Features:**
- Contrasting Segments 305mm apart for easy sighting and measuring at a distance
 - Eyelet tip for attaching flags or ribbon
 - Rugged Steel Pointed Base
 - Heavy Duty Aluminum Foot

Part No.	Description	Size m
USRP-016		4.8
USRP-020	Telescopic Range Pole	6.1
USRP-025		7.6



Protective Bags

ECL offers several different stick bags for storage of our fibreglass stick products. Every bag is water resistant, mold resistant and incorporates a folded end with snap lock.

Contact the ECL team for full specs and sizing information.

Part No.	Description	Size
USSB-003	Soft Stick Bag with Snap	152mm W x 914mm OAL
USSB-005		152mm W x 1,651mm OAL
USSB-006		216mm W x 1,981mm OAL
USSB-007		152mm W x 2,261mm OAL
USSB-008		191mm W x 1,828mm OAL
USSB-009		152mm W x 2,871mm OAL
USSB-010		152mm W x 2,540mm OAL
USSB-011		152mm W x 3,429mm OAL
USSB-012		152mm W x 4,013mm OAL



BLUE STRIPE® Cleaning Products

The BLUE STRIPE® Cloth measures 457mm x 457mm and imparts a clear protective film of silicone on a hot stick. The Cloth comes with a durable, resealable clear bag.

BLUE STRIPE® Wipes offer a disposable way of performing light cleaning and protecting your hot sticks with a thin layer of silicone everyday. The BLUE STRIPE® Wipes come in a convenient dispenser box to mount on the wall.

Both products help comply with the OSHA requirement of daily inspection and wiping of high voltage rated fibreglass hot sticks.

Part No.	Description
USSA-STB-018	BLUE STRIPE® Cloth
USTS-SILWIPE	BLUE STRIPE® Wipes (Box of 50)
USTS-WAX	BLUE STRIPE® Hot Stick Wax 414ml can
USTS-SILWIPE	BLUE STRIPE® General Purpose Cleaner (3.8 litre as mixed)



BLUE STRIPE® Cloth



BLUE STRIPE® Wipes



BLUE STRIPE® General Purpose Cleaner

An effective neutral cleaner for tools, trucks, fibreglass, painted surfaces, rubber goods and most any non-absorbing surface. The Blue Stripe® General Purpose Cleaner is pH balanced (non-acid, non-alkali), non-abrasive, biodegradable, non-flammable, non-toxic, mild on skin and does not require ventilation.



BLUE STRIPE® Wax

Repels water and dirt to optimise dielectric properties.

Stay OSHA compliant and extend the life of your hot stick with our BLUE STRIPE® Hot Stick Wax.

Bucket Stick Storage Cases

The Bucket Stick Storage Case is made from molded polymer and will work with any size bucket stick on the market. The case conveniently clips to the side of the bucket without drilling or bucket modifications.

The Boom Holster is a unique, two-piece hot stick holder that easily mounts on a boom. The rugged molded design is spring loaded at one end so an operator can remove and insert a hot stick with just one hand.

Disconnect and NEMA Switch heads conveniently fit into a slot closest to the operator. With 3 supplied straps, ratchets and rubber pads, the Boom Holster can hold any length stick and adjusts to accommodate different sticks easily.

Part No.	Description
USBC-001	Bucket Storage Case
USBC-002	Boom Holster with Straps



Bucket Storage Case



Boom Holster with Straps



Hot Stick Accessories

Hot Stick accessories will fit on a universal Spline End or can be fitted to almost any stick. Accessories are ordered separately by referencing the listed part numbers.

Contact the ECL team to enquire about the entire line of Hot Stick Accessories.



Hand Guard



Shoestring Cutter



Rotary Prong Spline Attachment



Double Prong Stick End



Hi-Visibility Universal Hot Stick Probe



Universal Hot Stick Probe



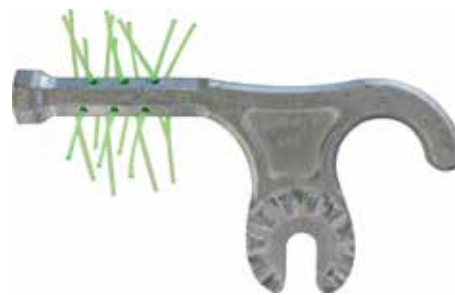
Plastic Hook End

Fuzzy Finger

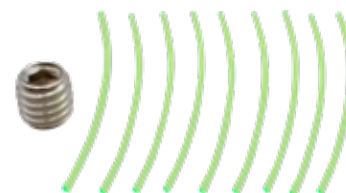
Upgrade to the Fuzzy Finger™ hot stick probe, which not only matches all the benefits of a universal hot stick probe but also offers a more secure hold when removing and replacing most standard fuse barrels available on the market.

The Fuzzy Finger™ works on any hot stick universal head and features replaceable nylon bristles that offer a safe and simple method to control a fuse barrel, even in high winds. The Fuzzy Finger™ is machined from lightweight aluminum, making it stronger and more durable than other probes available.

Part No.	Description
USSA-FFP	FUZZY FINGER™ PROBE
USSA-FFP-REPAIRKIT	FUZZY FINGER™ REPAIR KIT



FUZZY FINGER™ Probe



FUZZY FINGER™ Repair Kit with Replaceable Nylon Bristles

Tail Tamer™

The Tail Tamer™ Temporary Conductor Clamp is a tool for safely controlling conductors during construction and maintenance tasks. The patented design serves as a double clamp, allowing two conductors to be cinched at once.

The Tail Tamer™ serves multiple purposes during stringing, cutting, and connecting operations. The Tail Tamer™ is rated at continuous current rated 300 amps and load rated at 90kg.

Part No.	Description
USTT-001	TAIL TAMER™ Temporary Conductor Clamp



Quick Grab Probe & Quick Grab Power Probe

Redesigned and expanded, the new Quick Grab Probe improves on the proven lineman-favorite probe. Incorporating the unique bristle feature from the Fuzzy Finger™ Probe offers broader compatibility and better fuse handling while machined aircraft grade aluminum makes this tool stronger than ever before.

The new Quick Grab Power Probe model features a larger horn which makes locating the pull ring on a power fuse effortless.

ECL offers an industry-leading Limited-Lifetime Warranty standing by the Quick Grab Probe's exceptional quality.

Part No.	Description
USSA-QGP	Quick Grab Probe
USSA-QGP-F	Hi-Visibility Quick Grab Probe
USSA-QGP-FFP	Quick Grab Fuzzy Finger Probe
USSA-QGP-FFP-F	Hi-Visibility Quick Grab Fuzzy Finger Probe
USSA-QGP-PWR	Quick Grab Power Probe
USSA-QGP-PWR-F	Hi-Visibility Quick Grab Power Probe
USSA-QGP-PWR-FFP	Quick Grab Power Fuzzy Finger Probe
USSA-QGP-PWR-FFP-F	Hi-Visibility Quick Grab Power Fuzzy Finger Probe



Grab-it™

The Grab-It™ Cutout Fuse Tube Remover offers a fast and safe method of removing and installing overhead fuse barrels. It offers improved control of a fuse barrel, especially in high winds, reducing accidental drops. Made of durable aircraft grade aluminum, it has no moving or plastic parts, ensuring long-lasting trouble-free operation.

Part No.	Description
GRAB-IT-1	100 AMP Cutout Fuse Barrel Removal Tool
GRAB-IT-2	100 & 200 AMP Cutout Fuse Barrel Removal Tool
GRAB-IT-3	SMU-20 Power Fuse Removal Tool
GRAB-IT-4	100 AMP Double Bar Cradle Fuse Tube Removal Tool
GRAB-IT-5	Current Limiting (CL) Cutout Fuse Removal Tool
-F	Hi-visibility Coating



100 Amp Cutout Fuse Barrel Removal Tool



100 & 200 Amp Cutout Fuse Barrel Removal Tool



SMU-20 Power Fuse Removal Tool



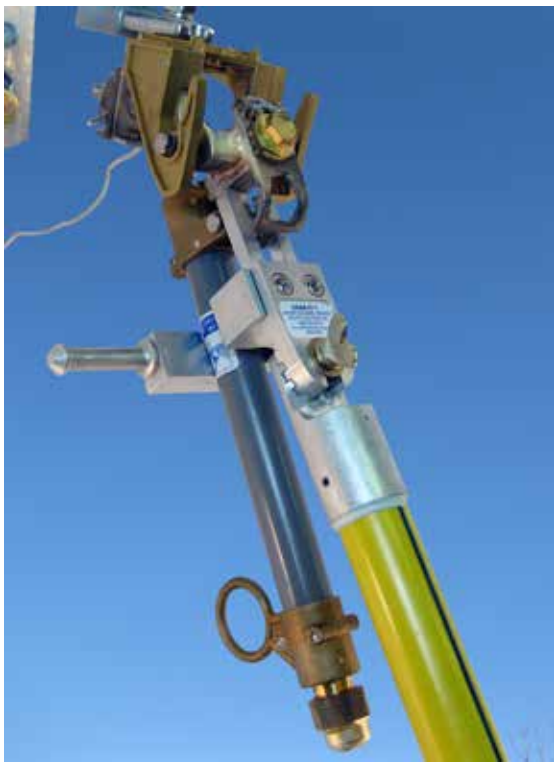
100 Amp Double Bar Cradle Fuse Tube Removal Tool



Current Limiting (CL) Cutout Fuse Removal Tool



Option: Hi-Visibility Coating



Conductor Lift Snatch Block

The Conductor Lift Snatch Block is a compact, heavy-duty pulley designed for overhead conductor work. Made from solid aluminum, its unique spring-loaded gate allows easy conductor attachment without latches or pins, improving safety and ease of use compared to conventional snatch blocks.

- 680kg working load
- Supports conductors up to 1,500 MCM, 1,033.5 ASCR or 32mm dia
- The Conductor Lift is now available as a link stick configuration

Part No.	Description
USCL-001	Conductor Lift Snatch Block
USCL-001-SH	Conductor Lift Snatch Block with Bolt Shackle



Jack Jumper®

The Jack Jumper® Cutout Bypass Tool offers a fast and safe method of bypassing cutouts when changing fuses or during fuse coordination. The tool works by jumping the cutout from top to bottom, allowing fuse removal without service interruptions. The Jack Jumper® installs and removes in seconds using a shotgun stick, saving time and money. 9 models are available to work with most cutout styles available. (All Jack Jumper® tools are rated at 100 Amps.)

Part No.	Description
USJJ-001-S	15 kV Cutout with Soft Case
USJJ-002-S	27 kV Cutout with Soft Case
USJJ-003-S	Chance 15 kV Loadbreak Cutout with Soft Case
USJJ-004-S	ABB 15 kV Loadbreak Cutout with Soft Case
USJJ-008-S	Chance 27 kV Loadbreak Cutout with Soft Case
USJJ-009-S	ABB 27 kV Loadbreak Cutout with Soft Case
USJJ-005-S	S&C SMD - 20 15 kV, Eaton 24CMU Power Fuses & 38 kV Cutout with Soft Case
USJJ-006-S	S&C SMD - 20 27 kV & Eaton 29CMU Power Fuses with Soft Case
USJJ-007-S	S&C SMD - 20 35 kV Power Fuse with Soft Case



The Soft Case offers perfect protection for all Jack Jumper products.



NON LOAD BREAK



15 kV Cutout with Soft Case



27 kV Cutout with Soft Case



LOAD BREAK



Chance 15 kV Loadbreak Cutout with Soft Case



ABB 15 kV Loadbreak Cutout with Soft Case



Chance 27 kV Loadbreak Cutout with Soft Case



ABB 27 kV Loadbreak Cutout with Soft Case



NON LOAD BREAK



S&C SMD - 20 15 kV, Eaton 24CMU Power Fuses & 38 kV Cutout with Soft Case



S&C SMD - 20 35 kV Power Fuse with Soft Case



S&C SMD - 20 27 kV & Eaton 29CMU Power Fuses with Soft Case

Jumper-T

The Jumper-T Parking Stand is an insulated stand designed for parking temporary mechanical jumpers. The Jumper-T features 381mm of 32mm foam filled fibreglass and can combine shorter jumpers for extended reach or can be used to park jumpers to create a visible air gap.

This tool can also be used with the Break-Safe® to create a visible air gap. Available in straight or bent configurations, it can eliminate jumper sag and cross-phasing risks.

The Jumper-T is rated for 300 Amps continuous current, with the duckbill clamp accommodating #6 copper up to 1033 MCM.

Customised lengths are available. Contact the ECL team for more information.

Part No.	Description
USJT-001	Jumper-T Straight Bar
USJT-002	Jumper-T Bent Bar



Jumper-T Straight Bar



Jumper-T Bent Bar

Conductor Cleaning Brush

The patented Conductor Cleaning Brush offers a thorough and user-friendly method of brushing conductors and bushings. Providing 360-degree cleaning and shotgun stick compaibility, its flexible pads conform to various conductor sizes, while an external brush allows traditional cleaning on flat surfaces. The tool offers easy pad replacement, no tools required. The Conductor Cleaning Brush is constructed from weather-resistant polymer and features spring-loaded jaws that ensure durability and effective cleaning.

Part No.	Description
USCC-010	3.2mm-76mm Conductor Cleaning Brush
USCC-010-PADS	Replacement Pad Set for #USCC-010 (3)
USCC-011	76mm-279mm Conductor Cleaning Brush
USCC-011-PADS	Replacement Pad Set for #USCC-011 (3)



3.2mm-76mm Conductor Cleaning Brush



76mm-279mm Conductor Cleaning Brush



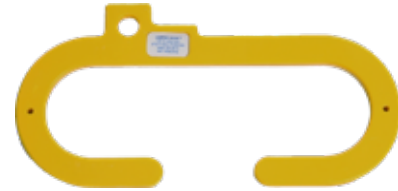
Replacement Pads

Jumper Hook

The Jumper Hook provides a simple means of eliminating jumper sag without the use of tape or rope.

The Jumper Hook will fit over any class 2 or 3 line hose and has a flash over resistance of 50kV.

The Jumper Hook is made from hi-performance polymer and installs in seconds, either manually or by shotgun stick.



Part No.	Description
USJH-001	Polymeric Jumper Hook

Jumper Aid™

The Jumper-Aid™ eliminates jumper sag with a pivoting design that is large enough to fit over most cross arms and positively captures jumpers and blankets.

The Jumper-Aid™ is machined from hi-performance polymer and can be installed manually or by shotgun stick.



Part No.	Description
USJH-002	Polymeric Jumper-Aid

Jumper Cuff™

The Jumper Cuff™ features a patented V-Notch design that securely holds jumpers, preventing sliding. The Jumper Cuff™ is machined from high-performance polymer and easily fits over bare conductors and class line hose up to 63.5mm OD.

The Jumper Cuff™ installs or removes in seconds, by hand or shotgun stick.



Part No.	Description
USJH-003	JUMPER CUFF™ - Temporary Jumper Holder

Blanket Mate

The Blanket Mate Heavy Duty Blanket Holder is designed to secure insulating blankets to magnetic surfaces such as transformers, both padmount and overhead.

The unique segmented design allows it to conform securely to curved surfaces.

The Blanket Mate Heavy Duty Blanket Holder is available in a 6 or 8 magnet option and comes with a 5 year warranty.



**Blanket Mate 6 Magnet
Blanket Anchor**

Part No.	Description
USBM-001	Blanket Mate 6 Magnet Blanket Anchor
USBM-002	Blanket Mate 8 Magnet Blanket Anchor

Bucket Hook

The Bucket Hook Polymeric Hook is a machined, high-performance alternative to traditional molded hooks.

The interior hook accommodates tool bags, while the exterior hook fits blanket holes without damaging them. The Bucket Hook is also available in a Wide Slot for lined buckets. The Bucket Hook is equipped with a 5-year warranty and a 34kg weight capacity.

Part No.	Description
USBM-004	Polymeric Bucket Hook
USBM-004-W	Wide Slot Polymeric Bucket Hook



Blanket Clamp

The Blanket Clamp aids in securely placing insulating rubber blankets on poles, lines, and other work surfaces. The Blanket Clamp features rubber end caps to prevent blanket damage.

The Blanket Clamp is available in hand operable or shotgun operable options.

Part No.	Description
USBA-001	Blanket Clamp
USBA-002	Blanket Clamp Shotgun Operable



Blanket Clamp



Blanket Clamp
Shotgun Operable

KLONDIKE CLAMP®

The KLONDIKE CLAMP® ensures hassle-free, secure attachment of rubber blankets without the use of tape or rope. Its ergonomic design with lineman-friendly grip and extended handles offers better control, while the strong clamping force and flared opening allow for easy one-handed operation. The KLONDIKE CLAMP® is available in 3 models:

- Standard - For crossarms, bushings and poles up to 279.4mm diameter
- Large - Fits larger poles from 279.4mm to 508mm in diameter
- Hands-Free - Shotgun operable for hands-free operation

Part No.	Description
USCP-001	Klondike Clamp® Insulating Blanket Clothespin
USCP-002	Oversized Klondike Clamp® Insulating Blanket Clothespin
USCP-004	Shotgun Operable Klondike Clamp® Insulating Blanket Clothespin



Klondike Clamp®



Oversized Klondike Clamp®



Shotgun Operable Klondike
Clamp®

Rex Clamp™

The Rex Clamp™ is designed to safely and securely control a loose tail when using a come along or strap hoist. This clamp is suitable for conductor sizes up to 29.2mm OD and can accept straps up to 76.2mm wide.

Machined from high-performance polymer, this patent-pending design features a rotating arm to positively capture the tail and strap in place while still allowing the clamp to slide.

Part No.	Description
USRC-001	REX CLAMP™





PERSONAL
PROTECTIVE
EQUIPMENT

Conductive Suits

Electrostatic Suits

Designed specifically for utility professionals working in high-risk live line environments, these suits provide the precision-engineered protection required for the toughest conditions.

- Features:**
- Enhanced protection for advanced electrostatic discharge control reduces risks in high-voltage zones
 - Ergonomic design for comfort, ensuring full mobility without compromising safety
 - Built durable materials to withstand tough utility conditions, supporting long-term use



ELECTROSTATICS

Part No.	Description	Size
HVCS1	Electrostatics-1 Conductive Suit w Jacket with Face Shield, Bib & Brace Trouser, conductive gloves, socks, bonding leads	Size L
HVCS1XL	Electrostatics-1 Conductive Suit w Jacket with Face Shield, Bib & Brace Trouser, conductive gloves, socks, bonding leads	Size XL
HVCS1XXXL	Electrostatics-1 Conductive Suit w Jacket with Face Shield, Bib & Brace Trouser, conductive gloves, socks, bonding leads	Size XXL
HVCSM	Electrostatics-1 Conductive Suit Coverall Type, c/w conductive gloves, socks and bonding leads	Size M
HVCSL	Electrostatics-1 Conductive Suit Coverall Type, c/w conductive gloves, socks and bonding leads	Size L
HVCSXL	Electrostatics-1 Conductive Suit Coverall Type, c/w conductive gloves, socks and bonding leads	Size XL
HVCSXXL	Electrostatics-1 Conductive Suit Coverall Type, c/w conductive gloves, socks and bonding leads	Size XXL

Electrostatic Suit Accessories

Conductive shielding boots, gloves and socks. Equipotential bonding leads between suit and accessories.

Accessories can be ordered separately.

Part No.	Description	Size
HVB10	Conductive Boot with steel cap	Size 10 (43)
HVB12	Conductive Boot with steel cap	Size 12 (45)
HVB9	Conductive Boot with steel cap	Size 9 (42-43)
HVBPC10	Conductive Boot with Polycarb Toe Protection	Size 10 (43)
HVBPC11	Conductive Boot with Polycarb Toe Protection	Size 11 (44)
HVBPC12	Conductive Boot with Polycarb Toe Protection	Size 12 (45)
HVBPC13	Conductive Boot with Polycarb Toe Protection	Size 13 (46)
HVGLV10	Conductive Glove Size	Size 10
HVGLV12	Conductive Glove Size	Size 12
HVSCK10	Conductive Sock Size	Size 10 (43-44)
HVSCK12	Conductive Sock Size	Size 12 (45-46)
HVSCK9	Conductive Sock Size	Size 9 (41-42)



Best Practice Procedures

Crimping Procedures: Copper

1. Ensure the conductor has been stripped of sufficient insulation length to prevent insulation becoming pinched in the cable lug barrel, or connector barrel.
2. Ensure conductor is visible and flush within the cable lug window, or visible at the end of connector barrel. Adjust insulation strip length if required.
3. Ensure the correct cable lug or connector has been selected for the cable size.
4. Ensure the correct die or jaw position of the crimper has been selected as per cable lug/connector and cable size.
5. Start the crimping process as close to the cable lug palm, or end of connector barrel as practical and work back towards the cable entry.
6. Compress the cable lug barrel, or connector barrel till the die faces meet, and the crimper jaw has fully shut.
7. If the conductor is a fine strand, compress all the barrel length fully. Bellmouth Lugs should be compressed up to the bellmouth only, never onto the bellmouth.
8. If the conductor is a coarse strand, and of non tension type (not overhead powerline) compress all the barrel length fully.



Crimping Procedures: Aluminium

1. Ensure the conductor has been stripped of sufficient insulation length to prevent insulation becoming pinched in the cable lug or connector barrel.
2. Ensure conductor is bottomed out on the barrel end wall.
3. Ensure the correct cable lug or connector has been selected for the cable size.
4. Ensure the correct die size has been selected as per cable lug or connector and cable size.
5. Start the crimping 5mm back from the barrel end wall and work back towards the cable entry.
6. Compress the cable connector or lug barrel till the die faces meet and the crimper jaw has fully shut
7. If the conductor is a fine strand, compress all the barrel length fully.
8. If the conductor is a coarse strand, and of non tension type (not overhead powerline) compress all the barrel length fully.



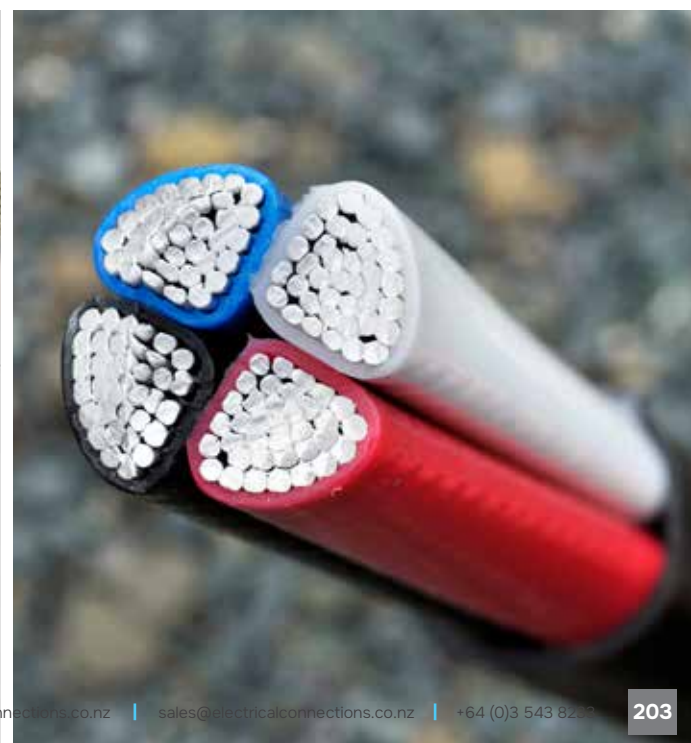
Shearhead Connector Reference Table

1kV Type & 6kV Type

Shearhead Connector			16 - 95	16 - 50	25 - 95	25 - 150	25 - 185	120 - 140
Allen Wrench			-	6				8
Socket Wrench			10	-				
Solid Circular - Cu, AL (re)		AL	16-35	16-50	25-95	25-150	25-185	120-240
		Cu						-
Solid Sector (se)		AL	16-25	16-50	25-95	25-150	25-185	120-240
Circular Solid Strand (rm, rmc)		AL	16-35	16-50	25-95	25-150	35-185	120-240
		Cu						
Sector Solid Strand (sm)		AL	16-25	16-50	25-95	25-150	35-150	120-185
		Cu						

36kV Type

Shearhead Connector		16 - 95		50 - 150			95 - 240			120 - 300		
Centring insert		Black	No Insert	White	Blue	No Insert	Grey	Red	No Insert	Yellow	Green	No Insert
Solid Circular - Cu, AL (re)		16-50	70-95	50-70	95-120	150	95-120	150-185	240	120-185	240	300
Solid Sector - AL (se)												
Circular Solid Strand-Cu, AL (rm, rmc)		16-35	50-70	50	70-95	120	95	120-150	185-240	120-150	185-240	300
Sector Solid Strand-Cu, AL (sm)		25-35	50-70	50	70-95	120	95	120-150	185-240	120-150	185-240	300



Reference Tables

Stranded Aluminium & Copper Cable Details

Metric			Imperial				
Nominal Cross Sectional Area mm²	No. Of Strands/ Wire Diameter mm	Nominal Conductor Dia mm	Nominal Cross Sectional Area		No. Of Strands/Wire Diameter		Nominal Conductor Dia mm
			in²	mm²	in	mm	
1.0	1/1.13	1.13	0.002	0.97	1/0.044	1/1.12	1.12
			0.002	1.25	3/0.029	3/0.737	1.59
1.5	1/1.38	1.38					
			0.003	1.93	3/0.036	3/0.914	1.97
2.5	7/0.67	2.01					
			0.005	2.93	7/0.029	7/0.737	2.21
4.0	7/0.85	2.55					
			0.007	4.52	7/0.036	7/0.914	2.74
6.0	7/1.04	3.12					
			0.010	6.75	7/0.044	7/1.12	3.35
			0.015	9.43	7/0.052	7/1.32	3.96
10.0	7/1.35	4.05					
			0.023	14.28	7/0.064	7/1.63	4.88
16.0*	7/1.70	4.85					
			0.03	18.29	19/0.044	19/1.12	5.59
			0.035	22.65	7/0.080	7/2.03	6.10
25.0*	7/2.14	6.00	0.04	25.50	19/0.052	19/1.32	6.60
35.0*	7/2.65	6.95					
			0.058	58.06	7/0.103	7/2.64	7.92
			0.061	39.65	19/0.064	19/1.63	8.13
50.0*	19/1.89	8.05					
			0.10	65.10	19/0.083	19/2.11	10.50
70.0*	19/2.24	9.75					
			0.12	75.30	37/0.064	37/1.63	11.40
			0.126	139.70	19/0.092	19/2.34	11.68
95.0*	19/2.65	11.37	0.15	95.30	37/0.072	37/1.83	12.80
			0.152	98.60	19/0.101	19/2.57	12.83
120.0*	19/2.94	12.91	0.20	126.70	37/0.083	37/2.11	14.80
150.0*	19/3.28	14.32					
			0.25	159.10	37/0.093	37/2.36	16.50
185.0*	37/2.65	15.95					
			0.30	195.10	37/0.103	37/2.62	18.30
240.0*	37/2.94	18.38					
			0.40	262.20	61/0.093	61/2.36	21.30
300.0*	37/3.28	20.80					
			0.50	321.60	61/0.103	61/2.62	23.50
			0.60	391.10	91/0.093	91/2.36	26.00
400.0*	60/2.94	23.52					
			0.75	479.70	91/0.103	91/2.62	28.80
500.0*	61/3.28	26.55					
630.0*	61/3.70	29.90					
			1.00	669.40	127/0.103	127/2.62	34.00
800.0*	60/4.21	33.10	1.24	800.0	127/0.112	127/2.84	36.92
1000.0*		38.28					

*Compacted

Reference Tables

Conversion Tables for Non-Metric Cable Sizes

British Standard	Metric Equivalent (mm ²)	Imperial Inches ²	Metric Equivalent (mm ²)	American Wire Gauge (AWG)	Metric Equivalent (mm ²)	American Wire Gauge (AWG)	Metric Equivalent (mm ²)
33	0.051	0.001	0.657	30	0.051	250	127
32	0.059	0.002	0.981	29	0.065	300	152
31	0.068	0.002	1.28	28	0.081	350	177
30	0.078	0.003	1.97	27	0.102	400	203
29	0.094	0.003	2.08	26	0.128	450	228
28	0.011	0.005	2.98	25	0.163	500	253
27	0.014	0.007	4.6	24	0.205	550	279
26	0.016	0.01	6.81	23	0.259	600	304
25	0.02	0.015	9.59	22	0.324	650	329
24	0.025	0.023	14.5	21	0.412	700	355
23	0.029	0.03	18.6	20	0.519	750	380
22	0.04	0.04	26	19	0.652	800	405
21	0.052	0.06	39.4	18	0.826	850	431
20	0.066	0.075	49.9	17	1.04	900	456
19	0.81	0.1	66.3	16	1.31	950	481
18	1.17	0.12	76.8	15	1.65	1,000	507
17	1.59	0.15	97.2	14	2.08	1,100	557
16	2.08	0.2	129	13	2.63	1,200	608
15	2.63	0.25	162	12	3.31	1,300	659
14	3.24	0.3	199	11	4.17	1,400	709
13	4.29	0.4	267	10	5.26	1,500	760
12	5.48	0.5	328	9	6.63	1,600	811
10	8.3	0.6	399	8	8.37	1,700	861
		0.75	489	7	10.6	1,800	912
		0.85	557	6	13.3	1,900	963
		1	683	5	16.8	2,000	1,010
		1.25	807				
		1.5	1,050				

The reference tables provided in this catalogue are based on industry averages and norms. While we strive to ensure their accuracy, these tables should not be solely relied upon for your purchasing decisions. We strongly recommend verifying all specifications and details with the relevant suppliers' spec sheets to ensure they meet your specific requirements. Electrical Connections Limited assumes no responsibility for any discrepancies or errors that may arise from the use of these reference tables.



Reference Tables

Named Conductors - Quick Reference

Conductor Code Name	Conductor Type	No. of Strands/Wire Diameter	OD (mm)
Argon	AAAC	7/1.75	5.25
Bee	AAC	7/4.90	14.7
Beetle	AAC	19/2.66	13.3
Boron	AAAC	7/2.25	6.75
Butterfly	AAC	19/4.64	23.25
Caterpillar	AAC	19/3.50	17.7
Centipede	AAC	37/3.78	26.46
Chafer	AAC	19/3.78	18.9
Chlorine	AAAC	7/2.50	7.5
Chromium	AAAC	7/2.75	8.25
Chukar	ACSR	84/3.69 19/2.21	40.69
Cicada	AAC	37/4.65	32.54
Cockroach	AAC	19/4.21	21.1
Coyote	ACSR	26/2.54-7/1.91	15.89
Cricket	AAC	7/5.35	16.1
Dingo	ACSR	18/3.35-1/3.35	16.75
Dog	ACSR	6/4.72-7/1.57	14.15
Ferret	ACSR	6/3.00-1/3.00	9
Flounder	SBC	-	6.7
Flourine	AAAC	7/3.00	9
Fly	AAC	7/3.40	10.2
Fox	ACSR	6/2.80-1/2.80	8.37
Gnat	AAC	7/2.05	6.62
Goat	ACSR	30/3.71-7/3.71	25.96
Gopher	ACSR	6/2.36-1/2.36	7.08
Grasshopper	AAC	7/3.91	11.7
Hake	SBC	-	10.41
Hare	ACSR	6/4.72-1/4.72	14.16
Helium	AAAC	7/3.75	11.3
Hornet	AAC	19/3.25	16.25
Huhu	AAC	37/2.52	17.6
Hydrogen	AAAC	7/4.50	13.5
Hyena	ACSR	7/4.39-7/1.93	14.6
Iodine	AAAC	7/4.75	14.3
Jaguar	ACSR	18/3.86-1/3.86	19.3
Krypton	AAAC	19/3.25	16.3

Conductor Code Name	Conductor Type	No. of Strands/Wire Diameter	OD (mm)
Kutu	AAC	7/3.00	9
Ladybird	AAC	7/2.80	8.4
Lamprey	SBC	-	8.97
Lutelium	AAAC	19/3.50	17.5
Magpie	ACSR	3/2.11-4/2.11	6.33
Mata	AAC	19/3.86	19.3
Mink	ACSR	6/3.66-1/3.66	10.98
Moa	ACSR	76/3.72-7/2.89	38.4
Moka	AAC	7/4.09	12.26
Mullet	SBC	-	4.9
Namu	AAC	7/2.11	6.33
Neon	AAAC	19/3.75	18.8
Nitrogen	AAAC	37/3.00	21
Nobelium	AAAC	37/3.25	22.8
Oxygen	AAAC	19/4.75	23.8
Petrel	ACSR	12/2.34-7/2.34	11.7
Phosphorus	AAAC	37/3.75	26.3
Poko	AAC	7/2.36	7.08
Rabbit	ACSR	6/3.35-1/3.35	10.05
Raccoon	ACSR	6/4.09-1/4.09	12.3
Rango	AAC	7/3.66	10.98
Selenium	AAAC	61/3.25	29.3
Silicon	AAAC	61/3.50	31.5
Spider	AAC	19/3.40	19.94
Squirrel	ACSR	6/2.10-1/2.10	6.33
Sulpher	AAAC	61/3.75	33.8
Swan	ACSR	6/2.12-1/2.12	6.36
Tiger	ACSR	30/2.36-7/2.36	16.52
Wasp	AAC	7/4.40	13.2
Weke	AAC	7/4.72	14.16
Weta	AAC	19/3.35	16.75
Waxwing	ACSR	18/3.10-1/3.10	15.47
Wolf	ACSR	30/2.60-7/2.60	18.13
Xenon	AAAC	91/4.50	49.5
Zebra	ACSR	54/3.18-7/3.18	28.62

Steel Cored Aluminium Conductor (ACSR)

Conductor Code Name	Conductor					Equivalent Electrical Areas		Calculated Min Breaking Load kN
	Total Cross Sectional Area (mm²)	Nom Overall Diameter	Aluminium Nominal Area (Mm²)	Stranding (No/Mm)	Steel Stranding (No./Mm)	Aluminium mm²	Copper mm²	
Animals								
Mole	12.4	4.5	10.6	6/1.50	1/1.50	10.6	6.5	4.1
Squirrel	24.5	6.3	21	6/2.11	1/2.11	21	12.8	7.9
Gopher	30.6	7.1	26.2	6/2.36	1/2.36	26.2	16	9.6
Ferret	49.5	9	42.4	6/3.0	1/3.0	42.4	25.9	15.2
Rabbit	61.7	10.1	52.9	6/3.35	1/3.35	52.9	32.2	18.4
Mink	73.6	11	63.2	6/3.66	1/3.66	63.1	38.5	21.8
Racoon	92.4	12.3	79.1	6/4.10	1/4.10	79.2	48.3	27.2
Dog	118.5	14.2	105	6/4.72	7/1.57	105	64.5	32.7
Dingo	167.5	16.8	158.7	18/3.35	1/3.35	158.7	97.9	35.7
Wolf	194.9	18.1	158	30/2.59	7/2.59	158	96.8	69.2
Jaguar	222.3	19.3	210.6	18/3.86	1/3.86	210.6	128.4	47
Goat	400	26	324.3	30/3.71	7/3.71	324.3	197.7	136
Zebra	484.5	28.6	428.9	54/3.18	7/3.18	428.9	261.5	132

Reference Tables

Common Conductors (AAAC)

Conductor Code Name	Conductor			Equivalent Electrical Areas		Calculated Min Breaking Load
	Actual Area mm ²	No of Strands/Wire Diameter	Nom. Overall Diameter mm ²	Aluminium mm ²	Copper mm ²	
Argon	17	7/1.75	5.3	16.1	10.3	4
Boron	28	7/2.25	6.8	26.5	17	6.6
Chlorine	34	7/2.50	7.5	32.8	21	8.2
Chromium	42	7/2.75	8.3	39.7	25.4	9.9
Fluorine	50	7/3.00	9	47.2	30.2	11.8
Helium	77	7/3.75	11.3	73.7	47.1	17.6
Hydrogen	111	7/4.50	13.5	106	67.9	24.3
Iodine	124	7/4.75	14.3	118	75.6	27.1
Krypton	158	19/3.25	16.3	150	94.2	37.4
Lutetium	183	19/3.50	17.5	173	109.5	41.7
Neon	210	19/3.75	18.8	199	124.8	47.8
Nitrogen	262	37/3.00	21	248	155.6	62.2
Nobellium	307	37/3.25	22.8	291	182.5	72.8
Oxygen	337	19/4.75	23.8	320	200.7	73.6
Phosphorus	409	37/3.75	26.3	387	242.8	93.1
Selenium	506	61/3.25	29.3	478	299.9	114
Silicon	587	61/3.50	31.5	555	348.2	127
Sulphur	673	61/3.75	33.8	636	399	145

Smooth Body Conductors

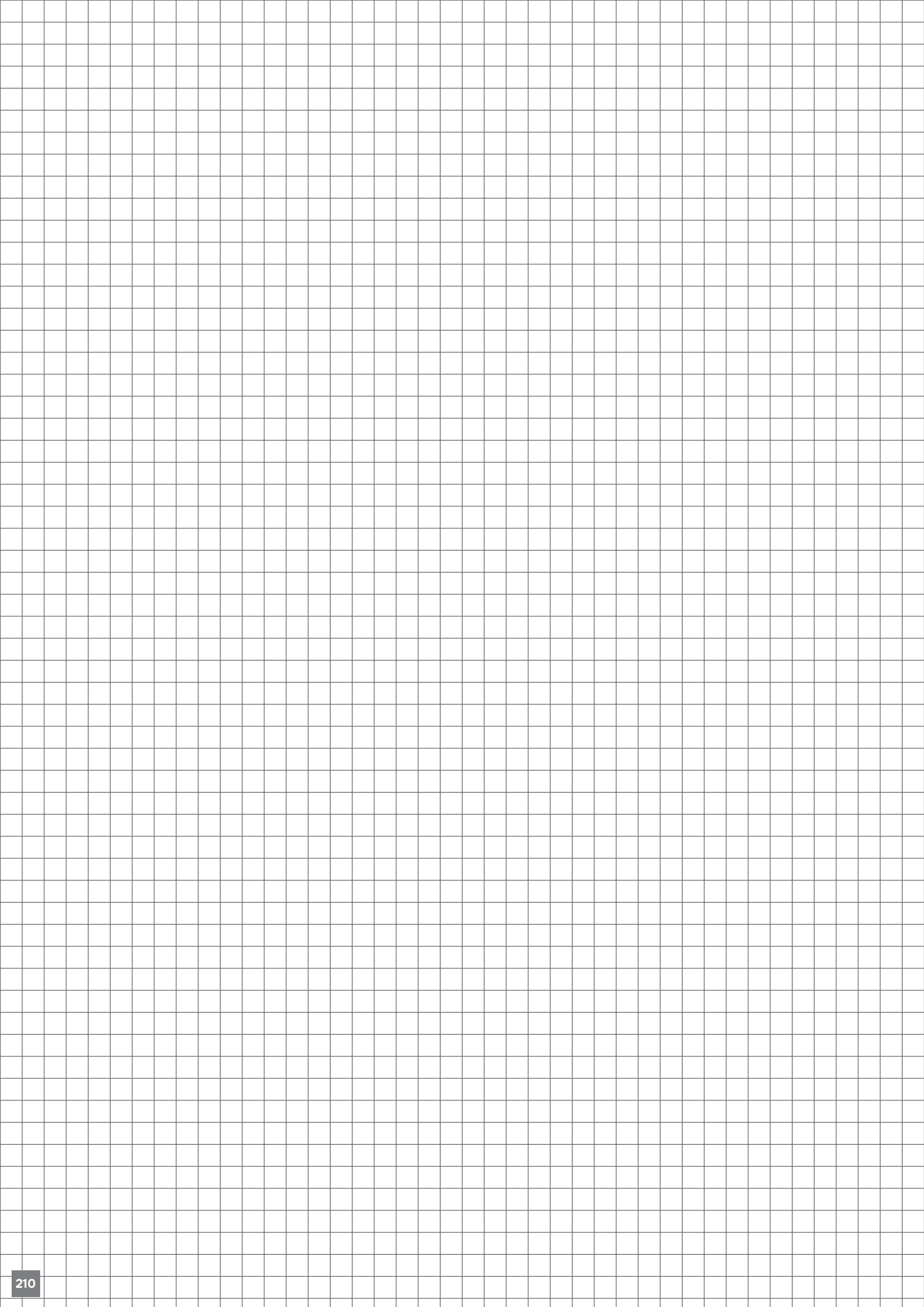
Conductor Code Name	Conductor					Equivalent Electrical Areas		Calculated Min Breaking Load	
	Total Cross Sectional Area (mm²)	Nom Overall Diameter	Aluminium		Steel	Aluminium	Copper		
Fish					Nominal Area (Mm²)	Stranding (No./Mm)	Stranding (No./Mm)	mm²	mm²
Hake	78.64	10.4					60	40	23.8
Mullet	17.66	4.9					10	8	7.67
Pollock	28.23	6.2	20	6/2.59	1/3.00	20	13	14.5	
Whiting	35.46	6.9	25	6/2.59	1/3.35	25	16	14.8	
Lamprey	59.51	9	40	6/3.28	1/4.24	40	26	23.1	
Herring	20.36	5.3				10	8	10.7	
Flounder	32.38	6.7	20	6/2.31	1/3.78	20	13	16.4	

All Aluminium Conductors (AAC)

Conductor Code Name	Conductor			Equivalent Electrical Areas		Calculated Min Breaking Load
	Actual Area (mm ²)	Nom Overall Diameter	Aluminium Nominal Overall Dia (mm)	Aluminium mm ²	Copper mm ²	
Insects						kN
Namu	24.4	7/2.11	6.3	24.4	14.9	4
Gnat	26.8	7/2.21	6.6	26.8	16.1	4.6
Poko	30.7	7/2.36	7.1	30.7	18.7	5.1
Ladybird	42.8	7/2.79	8.4	42.8	25.8	6.9
Kutu	49.4	7/3.00	9	49.4	30.1	7.9
Fly	63.55	7/3.40	10.2	63.6	38.8	9.9
Rango	73.5	7/3.66	11	73.5	44.9	11.3
Grasshopper	84.1	7/3.91	11.7	84.1	51.6	12.8
Wasp	106	7/4.39	13.2	106	64.5	16
Beetle	108.6	19/2.67	13.4	108.6	64.5	17.4
Weke	122.4	7/4.72	14.2	122.4	75	18.5
Bee	132	7/4.90	14.7	132	80.5	21.12
Cricket	157.9	7/3.56	16.1	157.9	96.8	23.9
Weka	167.7	19/3.35	16.8	167.7	100	26.2
Chafer	213.2	19/3.78	18.9	213.2	129	32.4
Mata	222.4	19/3.86	19.3	222.4	140	33.8
Cockroach	265.7	19/4.22	21.1	265.7	161	40
Butterfly	322.7	19/4.65	23.3	322.7	194	49
Centipede	415.2	37/3.78	26.5	415.2	251	63
Maybug	486.9	37/4.09	28.6	486.9	290	74
Cicada	628.6	37/4.65	32.6	628.6	387	95

Notes

Notes







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