

CABLE LUGS CATALOGUE



“
SPECIALITY
IS OUR
STRENGTH
”



Industrial Cable Management System Co.

Certificate of Compliance

Certificate Number:

UL-US-2227639-1

Report Reference:

E525632-20220712

Issue Date:

2024-01-26

INDUSTRIAL CABLE MANAGEMENT SYSTEM

A/C - 611779

Area 92, Street No:710, Gate No.532, Mesaieed New Light Industrial Area

Post Box: 22108 Mesaieed Qatar

This certificate confirms that representative samples of:

ZMVV - Wire Connectors and Soldering Lugs

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 486A-486B, 3rd Ed., Revised: 2021-05-05

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Manager

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Form-ULID-013925-CoCa – ver 1.0

Cable Lugs

ICMS cable lugs are designed to cater for a wide range of applications and cable management. We supply a comprehensive range of cable lugs designed for terminating and connecting our low voltage cables to equipment. Our cable lugs work in conjunction with standard cable crimping tools.

ICMS cable lugs are connecting devices used primarily for terminating and joining cable and wire conductors in electrical installations and equipment. The standard electro tinned lugs are suitable up to 150oC.

Cable Lugs are designed to be crimped on to a conductor to facilitate the termination of the cable through the lug hole and form a secure mechanical and electrical joint.

Copper cable lugs are manufactured from high conductivity copper which is tin plated to prevent corrosion. It incorporates the key benefit of joining the cables and wires in electrical reticulation systems and equipment.

Technical Data

■ Copper Terminals

Material Standard:

Copper terminals are manufactured from precision drawn tubes to BS 2871

Manufacturing Standard:

Copper terminals designed and manufactured to meet performance requirements of IEC 61238-1-1:2018/UL 486A & 486B BS EN61238-1/BS 4579 Part 1

Material Specification:

EC Grade 99.25% IACS as per BSEN1976: 2012

Temperature Rating:

The standard electro tinned lugs are suitable for use up to temperatures of 150°C. Please consult ICMS sales team for higher temperature capability.

■ Insulated Terminals

Material Standard:

Insulated terminals are manufactured to comply with the requirements of BS6516 part 2: 1990.

Material Specification:

EC Grade 99.25% IACS as per BSEN1976: 2012

Temperature Rating:

The standard electro tinned parts are suitable for use up to temperatures of 100 Deg C. Please consult ICMS sales team for higher temperature capability.

TYPES OF CABLE LUGS



01

Cable Terminal Type Lugs (CTL)

ICMS standard copper tube terminals are manufactured from seamless copper tube to BS 2871. The internal barrel diameters of these cable lugs suit standard cables as defined in BS EN 60228. They are designed and manufactured to meet performance requirements of BS 4579 Part 1.



02

Four Holes Terminals

Our range of four hole cable terminal ends is appreciated amidst our clients for safe and easy operation.



03

Long Palm Terminals

Our long palm terminals are in compliance with the demands of a majority of end user's. This also comply with the standard electrical specifications.



04

Uninsulated Copper Pin type Lugs Solid Type

ICMS uninsulated solid copper pin terminals are designed to terminate conductors into contact blocks. These cable lugs are manufactured from copper rods, turned and tin plated.

05



Uninsulated Copper Pin type Lugs Hollow Type

ICMS uninsulated hollow copper pin terminals are designed to terminate conductors. These cable lugs are manufactured from copper tubes and tin plated.

06



Splice Connectors/Ferrule

ICMS Splice Connectors are designed to connect cables of different sizes.

07



Insulated Type Terminals

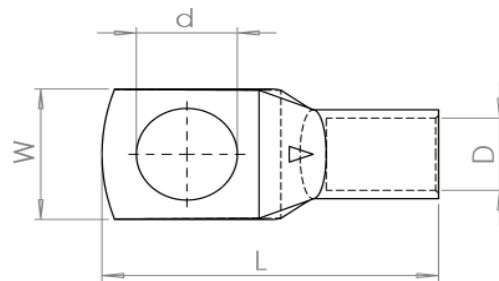
- a. Bootlace Lugs
- b. Ring
- c. Fork
- d. Pin

01

CABLE TERMINAL TYPE LUGS



Material : E-Copper
Finish : Electro Tinned
Features : With Inspection Hole
Ordering : CTL-CONDUCTOR SIZE-STUD SIZE
Example : CTL-35-8



Part No	Conductor size mm ²	Stud mm	L	W	D	d
CTL-1.5-3	1.5	3	16.0	6.5	1.8	3.2
CTL-1.5-4	1.5	4	17.0	6.5	1.8	4.3
CTL-1.5-5	1.5	5	18.0	7.5	1.8	5.3
CTL-2.5-3	2.5	3	16.0	7.5	2.3	3.2
CTL-2.5-4	2.5	4	17.0	7.5	2.3	4.3
CTL-2.5-5	2.5	5	18.0	8.5	2.3	5.3
CTL-2.5-6	2.5	6	19.0	9.0	2.3	6.5
CTL-4-4	4	4	21.0	8.5	3.0	4.3
CTL-4-5	4	5	22.0	9.0	3.0	5.3
CTL-4-6	4	6	23.0	10.0	3.0	6.5
CTL-6-4	6	4	24.6	9.6	4.0	4.3
CTL-6-5	6	5	24.6	9.7	4.0	5.3
CTL-6-6	6	6	24.6	10.0	4.0	6.3
CTL-6-8	6	8	27.3	12.5	4.0	8.3
CTL-6-10	6	10	30.7	14.7	4.0	10.3
CTL-10-5	10	5	30.0	10.4	4.5	5.1
CTL-10-6	10	6	30.0	10.5	4.5	6.3
CTL-10-8	10	8	30.0	12.5	4.5	8.2
CTL-10-10	10	10	34.1	14.7	4.5	10.4
CTL-10-12	10	12	34.1	15.5	4.5	12.7
CTL-16-5	16	5	30.7	11.0	5.5	5.2
CTL-16-6	16	6	30.7	11.0	5.5	6.3

Part No	Conductor size mm ²	Stud mm	L	W	D	d
CTL-16-8	16	8	30.7	12.5	5.5	8.3
CTL-16-10	16	10	35.9	15.1	5.5	10.3
CTL-16-12	16	12	35.9	17.5	5.5	12.8
CTL-25-5	25	5	32.2	13.1	6.7	5.2
CTL-25-6	25	6	32.2	13.1	6.7	6.3
CTL-25-8	25	8	32.2	13.1	6.7	8.3
CTL-25-10	25	10	36.9	15.1	6.7	10.2
CTL-25-12	25	12	36.9	15.1	6.7	12.8
CTL-35-5	35	5	37.6	15.8	8.6	5.2
CTL-35-6	35	6	37.6	15.8	8.6	6.3
CTL-35-8	35	8	37.6	15.8	8.6	8.3
CTL-35-10	35	10	41.5	16.2	8.6	10.3
CTL-35-12	35	12	41.5	18.6	8.6	12.9
CTL-35-14	35	14	43.5	19.6	8.6	14.8
CTL-50-6	50	6	40.2	17.6	9.6	6.3
CTL-50-8	50	8	40.2	17.6	9.6	8.3
CTL-50-10	50	10	43.2	17.6	9.6	10.3
CTL-50-12	50	12	43.2	18.7	9.6	12.8
CTL-50-14	50	14	43.2	20.3	9.6	14.8
CTL-50-16	50	16	52.8	23.2	9.6	16.5
CTL-70-6	70	6	50.4	21.8	12.0	6.3
CTL-70-8	70	8	50.4	21.8	12.0	8.2
CTL-70-10	70	10	50.4	21.8	12.0	10.2
CTL-70-12	70	12	50.4	21.8	12.0	12.7
CTL-70-14	70	14	52.9	22.2	12.0	14.8
CTL-70-16	70	16	52.9	22.2	12.0	16.3
CTL-70-20	70	20	71.9	30	12.0	20.9
CTL-95-8	95	8	53.2	24.3	13.5	8.3
CTL-95-10	95	10	53.2	24.3	13.5	10.3
CTL-95-12	95	12	53.2	24.3	13.5	12.7
CTL-95-14	95	14	56.8	24.3	13.5	14.8
CTL-95-16	95	16	56.8	24.3	13.5	16.3
CTL-95-20	95	20	73.6	30.0	13.5	20.9
CTL-120-8	120	8	59.1	27.5	15.0	8.3
CTL-120-10	120	10	59.1	27.5	15.0	10.3
CTL-120-12	120	12	59.1	27.5	15.0	12.7

Part No	Conductor size mm ²	Stud mm	L	W	D	d
CTL-120-14	120	14	64.0	27.5	15.0	14.8
CTL-120-16	120	16	64.0	27.5	15.0	16.3
CTL-120-20	120	20	76.6	27.5	15.0	20.9
CTL-150-10	150	10	66.3	30.3	16.5	10.2
CTL-150-12	150	12	66.3	30.3	16.5	12.7
CTL-150-14	150	14	66.3	30.3	16.5	14.7
CTL-150-16	150	16	71.4	30.3	16.5	16.2
CTL-150-20	150	20	71.4	30.3	16.5	20.8
CTL-185-10	185	10	72.4	34.0	19.0	10.3
CTL-185-12	185	12	72.4	34.0	19.0	12.9
CTL-185-14	185	14	72.4	34.0	19.0	14.7
CTL-185-16	185	16	76.2	34.0	19.0	16.5
CTL-185-20	185	20	76.2	34.0	19.0	20.9
CTL-240-10	240	10	91.4	37.8	21.0	10.3
CTL-240-12	240	12	91.4	37.8	21.0	12.7
CTL-240-14	240	14	91.4	37.8	21.0	14.7
CTL-240-16	240	16	91.4	37.8	21.0	16.4
CTL-240-20	240	20	91.4	37.8	21.0	20.9
CTL-300-10	300	10	97.2	43.9	24.5	10.3
CTL-300-12	300	12	97.2	43.9	24.5	12.7
CTL-300-16	300	16	97.2	43.9	24.5	16.5
CTL-300-20	300	20	97.2	43.9	24.5	20.9
CTL-400-12	400	12	102.8	47.4	27.0	12.7
CTL-400-14	400	14	102.8	47.4	27.0	14.7
CTL-400-16	400	16	102.8	47.4	27.0	16.4
CTL-400-20	400	20	102.8	47.4	27.0	20.9
CTL-500-14	500	14	116.2	52.7	30.0	14.0
CTL-500-16	500	16	116.2	52.7	30.0	16.4
CTL-500-20	500	20	116.2	52.7	30.0	20.9
CTL-630-16	630	16	145.8	64.5	35.5	16.4
CTL-630-20	630	20	145.8	64.5	35.5	20.9
CTL-800-20	800	20	162.5	70.7	39.0	20.9
CTL-1000-20	1000	20	167.8	76.7	42.0	20.9

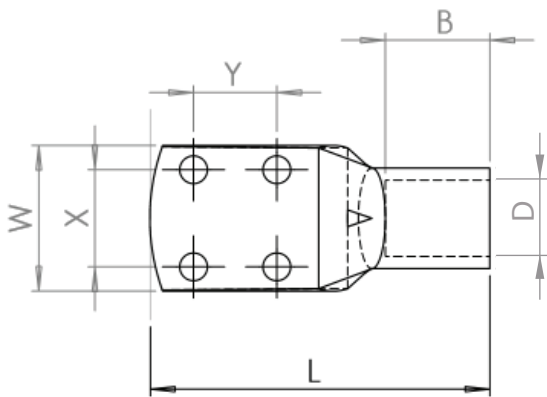
Terminal lugs without inspections holes are also available upon request.

02

FOUR HOLES
TERMINALS



- Material
- : E-Copper
- Finish
- : Electro Tinned
- Features
- : With Inspection Hole
- Ordering
- : CTLε-H-CONDUCTOR SIZE-STUD SIZE
- Example
- : CTLε-HI-.-rε.-



Part No	Conductor size mm²	d	D	W	X	Y	B	L
CTL-4H-400-8	400	8.5	27.0	46.0	35	25	52	120
CTL-4H-400-10		10.5						
CTL-4H-500-8	500	8.5	30.0	53.0	35	25	56	124
CTL-4H-500-10		10.5						
CTL-4H-630-8	630	8.5	35.5	64.5	35	25	65	146
CTL-4H-630-10		10.5						
CTL-4H-800-8	800	8.5	39.0	70.7	35	25	82	162
CTL-4H-800-10		10.5						
CTL-4H-1000-8	1000	8.5	42.0	76.7	35	25	90	168
CTL-4H-1000-10		10.5						

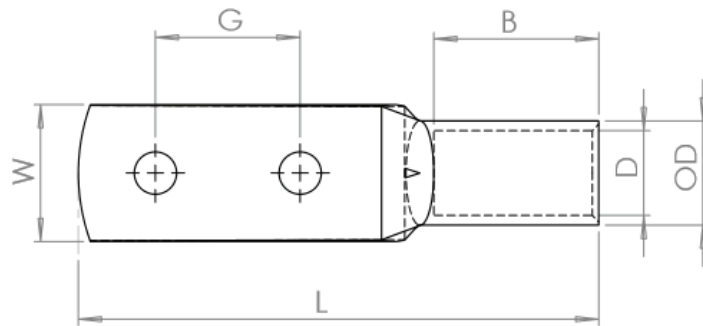
The small conductor sizes are available upon request with welded palm

03

LONG PALM TERMINALS



Material : E-Copper
Finish : Electro Tinned
Features : With Inspection Hole
Ordering : CTL-LP-CONDUCTOR SIZE
Example : CTL-LP-35



Part No	Conductor size mm ²	D	OD	W	P	B	L
CTL-LP-10	10	4.5	7.0	14	67	11	82
CTL-LP-16	16	5.5	7.5	15	67	20	91
CTL-LP-25	25	6.5	9.0	16	66	22	95
CTL-LP-35	35	8.5	11.0	17	71	22	97
CTL-LP-50	50	9.5	12.0	20	71	22	99
CTL-LP-70	70	12.0	15.0	22	74	24	150
CTL-LP-95	95	13.5	17.0	24	74	25	106
CTL-LP-120	120	15.0	19.0	27	74	32	113
CTL-LP-150	150	16.5	21.0	30	82	32	122
CTL-LP-185	185	19.0	23.0	34	82	32	122
CTL-LP-240	240	21.0	26.0	38	86	42	145
CTL-LP-300	300	24.5	30.0	44	94	47	160
CTL-LP-400	400	26.5	32.0	46	94	50	164
CTL-LP-500	500	30.0	36.0	53	94	50	164
CTL-LP-630	630	35.0	45.0	65	98	55	173

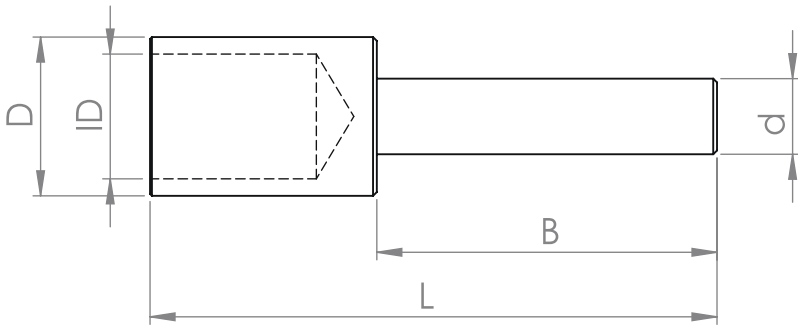
Note: LP terminals are normally supplied in blank palms. For holes, the hole size and dimension 'G' should be mentioned by the customer.

04

UNINSULATED COPPER PIN
TYPE LUGS SOLID TYPE



Material : E-Copper
Finish : Electro Tinned
Ordering : CPL-CONDUCTOR SIZE
Example : CPL-50



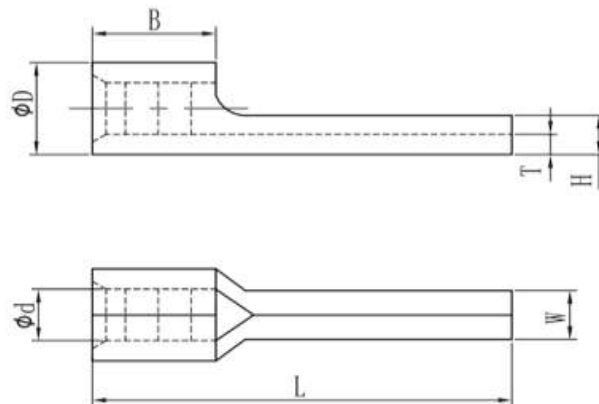
Part No	d	B	L	D	ID
CPL - 10	4.0	15.0	25.0	6.5	4.5
CPL-16	5.0	18.0	30.0	7.5	5.5
CPL-25	6.0	21.0	35.0	9.0	6.7
CPL-35	6.5	24.0	40.0	11.0	8.6
CPL-50	6.5	27.0	45.0	12.0	9.6
CPL-70	8.0	30.0	50.0	15.0	12.0
CPL-95	8.0	34.0	57.0	16.5	13.5
CPL-120	10.0	39.0	65.0	19.0	15.0
CPL-150	10.0	45.0	75.0	21.0	16.5
CPL-185	12.5	51.0	85.0	23.0	19.0
CPL-240	12.5	57.0	92.0	26.0	21.0
CPL-300	15.0	57.0	99.0	30.0	24.0
CPL-400	15.0	57.0	103.0	32.0	27.0

05

UNINSULATED COPPER PIN TYPE LUGS HOLLOW TYPE



Material : E-Copper
Finish : Electro Tinned
Ordering : ULP CONDUCTOR SIZE



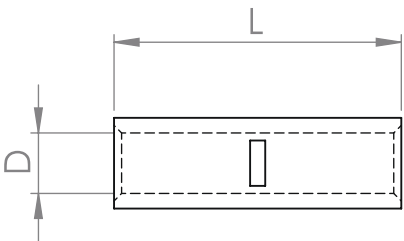
Part No	Conductor size Sq mm ²	D	d	W	B	L	H	T
ULP2.5	1.5-2.5	4.5	2.3	3.8	5.0	17.0	2.2	1.0
ULP6	4.0-6.0	6.0	3.6	4.0	6.0	20.0	2.4	1.1
ULP10	10-12	6.9	4.5	4.3	8.0	22.0	2.4	1.1
ULP16	13-16	8.4	5.9	5.5	10.0	26.0	2.6	1.2
ULP25	15-25	9.5	7.0	6.8	13.5	33.5	2.6	1.2
ULP35	20-35	11.8	8.7	8.0	16.0	40.5	3.2	1.5
ULP50	20-50	13.6	9.8	9.5	19.0	45.0	3.8	1.8
ULP70	25-70	15.8	11.6	11.0	24.0	55.0	4.2	2.0
ULP95	25-95	18.9	13.7	12.5	24.0	55.0	5.2	2.5

06

SPLICE CONNECTORS/
FERRULE



Material : E-Copper
Finish : Electro Tinned
Ordering : ULP CONDUCTOR SIZE



Part No	Conductor size mm²	L	D
CSL-1.5	1.5	14.0	1.8
CSL-2.5	2.5	16.0	2.3
CSL-4	4	19.0	3.0
CSL-6	6	19.0	4.0
CSL-10	10	23.0	4.5
CSL-16	16	27.0	5.5
CSL-25	25	31.0	6.7
CSL-35	35	35.0	8.6
CSL-50	50	40.0	9.6
CSL-70	70	43.0	12.0
CSL-95	95	45.0	13.5
CSL-120	120	48.0	15.0
CSL-150	150	53.0	16.5
CSL-185	185	58.0	19.0
CSL-240	240	58.0	21.0
CSL-300	300	63.0	24.5
CSL-400	400	79.0	27.0
CSL-500	500	95.0	30.0
CSL-630	630	120.0	35.5
CSL-800	800	130.0	39.0
CSL-1000	1000	140.0	42.0

07



INSULATED TYPE TERMINALS

Legend

F= French

G= German

D=Din

T= Tri-rated cables

X2=Twin cables

BOOTLACE TYPE	Conductor Size	Part No	Color
	0.5 mm ²	IBLL 0.5 FD	White
		IBLL 0.5 G	Orange 
		IBLL 0.5 FDT	White
		IBLL 0.5 GT	Orange 
		IBLL 0.5 X2D	White
	0.75 mm ²	IBLL 0.75 D	Grey 
		IBLL 0.75 F	Blue 
		IBLL 0.75 G	White
		IBLL 0.75 DT	Grey 
		IBLL 0.75 FT	Blue 
		IBLL 0.75 GT	White
		IBLL 0.75 X2D	Grey 
	1.0 mm ²	IBLL 1.0 FD	Red 
		IBLL 1.0 G	Yellow 
		IBLL 1.0 FDT	Red 
		IBLL 1.0 GT	Yellow 
		IBLL 1.0 X2D	Red 
	1.5 mm ²	IBLL 1.5 FD	Black 
		IBLL 1.5 G	Red 
		IBLL 1.5 FDT	Black 
		IBLL 1.5 GT	Red 
		IBLL 1.5 X2D	Black 
	2.5 mm ²	IBLL 2.5 F	Grey 
		IBLL 2.5 GD	Blue 
		IBLL 2.5 X2D	Blue 
	4 mm ²	IBLL 4 F	Orange 
		IBLL 4 GD	Grey 
		IBLL 4 X2D	Grey 



INSULATED TYPE TERMINALS

Legend
F= French
G= German
D=Din
T= Tri-rated cables
X2=Twin cables

BOOTLACE TYPE	Conductor Size	Part No	Color
	6 mm2	IBLL 6 D	Yellow 
		IBLL 6 F	Green 
		IBLL 6 G	Black 
		IBLL 6 X2D	Yellow 
	10 mm2	IBLL 10 D	Red 
		IBLL 10 F	Brown 
		IBLL 10 G	Ivory 
		IBLL 10 X2D	Red 
	16 mm2	IBLL 16 D	Blue 
		IBLL 16 F	Ivory 
		IBLL 16 G	Green 
		IBLL 16 FDT	Ivory 
		IBLL 16 GT	Green 
		IBLL 16 X2D	Blue 
	25 mm2	IBLL 25 D	Yellow 
		IBLL 25 F	Black 
		IBLL 25 G	Brown 
	35 mm2	IBLL 35 FD	Red 
		IBLL 35 G	Beige 
	50 mm2	IBLL 50 FD	Blue 
		IBLL 50 G	Olive 
	70 mm2	IBLL 70	Yellow 
	95 mm2	IBLL 95	Red 
	120 mm2	IBLL 120	Blue 
	150 mm2	IBLL 150	Yellow 



INSULATED TYPE TERMINALS

Material : E-Copper
Finish : Electro Tinned
Features : With Vinyl Grip
Ordering : ILR-Conductor Size
Example : ILR 1.5-4.3

RING TYPE



ILR 1.5-2.2

ILR 2.5-2.2

ILR 6-3.2

ILR 1.5-3.2

ILR 2.5-3.2

ILR 6-3.7

ILR 1.5-3.2 N

ILR 2.5-3.7

ILR 6-4.3

ILR 1.5-3.7

ILR 2.5-3.7 N

ILR 6-4.3 N

ILR 1.5-4.3

ILR 2.5-4.3

ILR 6-5.3

ILR 1.5-5.3

ILR 2.5-4.3 N

ILR 6-6.5

ILR 1.5-6.5

ILR 2.5-5.3

ILR 6-8.5

ILR 1.5-8.5

ILR 2.5-6.5

ILR 6-10

ILR 1.5-10

ILR 2.5-8.5

ILR 6-12

ILR 1.5-12

ILR 2.5-10

ILR 2.5-12

INSULATED TYPE
TERMINALS

Material : E-Copper
Finish : Electro Tinned
Features : With Vinyl Grip
Ordering : ILF-Conductor Size
Example : ILF 1.5-4.3

FORK TYPE		
		
ILF 1.5-3.2	ILF 2.5-3.2	ILF 6-3.7
ILF 1.5-3.2 N	ILF 2.5-3.2 N	ILF 6-4.3
ILF 1.5-3.7	ILF 2.5-3.7	ILF 6-5.3
ILF 1.5-3.7 N	ILF 2.5-3.7 N	ILF 6-6.5
ILF 1.5-4.3	ILF 2.5-4.3	ILF 6-8.5
ILF 1.5-4.3 N	ILF 2.5-4.3 N	ILF 6-10
ILF 1.5-5.3	ILF 2.5-5.3	
ILF 1.5-5.3 N	ILF 2.5-6.5	
ILF 1.5-6.5	ILF 2.5-8.5	

INSULATED TYPE TERMINALS

Material	: E-Copper
Finish	: Electro Tinned
Features	: With Vinyl Grip
Ordering	: ILP-Conductor Size
Example	: ILP 1.5-4.3

	PIN TYPE
	ILP 1.5-9.5
	ILP 1.5-12
	PIN TYPE
	ILP 2.5-9.5
	ILP 2.5-12
	PIN TYPE
	ILP 6-14



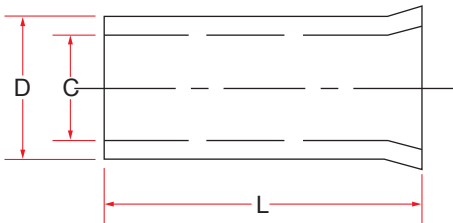
While every effort has been made to ensure that the information contained in this catalogue is accurate, ICMS reserves the right to amend the size and specifications of its products in line with its policy of continuing improvement and development without any prior notice.



UNINSULATED BOOTLACE TYPE TERMINAL LUG

Designed to be fitted onto the ends of flexible and cables prior to insertion into components, to provide protection to the wire strands. It provides a clean end termination.

Material: Copper
Finish: Tin plated
Tolerance: ±0.5mm



Sl. No	ICMS Part Number	Cross Section (mm ²)	L (mm)	D (mm)	C (mm)
1	BLL 10	10	12	4.9	4.5
2	BLL 16	16	12	6.2	5.8
3	BLL 25	25	12	7.9	7.5
4	BLL 35	35	16	8.8	8.1
5	BLL 50	50	20	10.9	10.3
6	BLL 70	70	22	14.3	13.5
7	BLL 95	95	25	15.6	14.8
9	BLL 120	120	27	17.7	16.7
10	BLL 150	150	32	20.6	19.6

COMPRESSION TOOLS

IT2 1.5 TO 6 mm²

Simple service pliers incorporating wire stripper and cutter.



IT2 1.5 TO 6 mm²

IT2 10 TO 16 mm²

Precision ratchet tools ensuring a full crimp



KHH13C 10 TO 400 mm²

Precision ratchet tools ensuring a full crimp



Handwriting practice area with horizontal dotted lines.



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