SOLUTIONS FOR A WIRED WORLD

CALTER®

CABLES CONNECTORS TOOLS

www.calter.com

Dear Partners-in-Trade and Patrons,

It is a matter of great pride and honour for us to present our new product catalogue for the year 2012.

Our new catalogue covers the complete range of products we currently manufacture and market - cables, connectors, crimping tools, SS cable ties, glands and earthing rods with accessories.

This year, we have added a few interesting products in cables & tools.

To enhance our production planning, resources & customer service we have successfully implemented SAP software.

Needless to say, our product range carries with it the high quality with which you have come to associate the CALTER name.

We are confident that you will find our new catalogue to be not only a source of information, but also a powerful resource that will enable you to select the right products suitable for your applications.

Your queries, suggestions and feedback will be much appreciated.

Our best wishes for the coming year.

Sincerely,

The CALTER Team

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Cables And Wires

CALTER
CABLES CONNECTORS TOOLS

CALTER INDUSTRIAL FLEXIBLE CABLES

CURRENT-CARRYING CAPACITY(Amperes)

Calter make 100 % Electrolytic bright annealed, multistrand unilay copper conductor HR PVC insulated, Single Core Industrial Cables HR PVC Insulated & HR PVC round Sheathed Multicore Industrial Cable for Voltage Grade upto 1100 volts as per IS 694:1990

Ambient temperature:30°C

Conductor operating temperature:85°C

Nominal Area of Conductor	Number / Diameter of Wires	REFERENCE METHOD 4		REFERENCE METHOD 3		REFERENCE METHOD 1		REFERENCE METHOD 11	
		enclosed in conduit in		enclosed in conduit in		clipped direct		on a perforated cable tray	
mm²		thermally insulating wall etc		wall or in trunking etc				OR Free AIR	
		2 core cable	3 or 4 core	2 core cable	3 or 4 core	2 core cable	3 or 4 core	2 core cable	3 or 4 core
		single phase	cable	single phase	cable	single phase	cable	single phase	cable
		a.c or d.c	3 phase a.c	a.c or d.c	3 phase a.c	a.c or d.c	3 phase a.c	a.c or d.c	3 phase a.c
1	32/0.2	14.5	13	17	15	19	17	21	18
1.5	48/0.2	18.5	16.5	22	19.5	24	22	26	23
2.5	80/0.2	25	22	30	26	33	30	36	32
4	56/0.3	33	30	40	35	45	40	49	42
6	84/0.3	42	38	51	44	58	52	63	54
10	80/0.4	57	51	69	60	80	71	86	75
16	126/0.4	76	68	91	80	107	96	115	100
25	196/0.4	99	89	119	105	138	119	149	127
35	276/0.4	121	109	146	128	171	147	185	158
50	396/0.4	145	130	175	154	209	179	225	192
70	354/0.5	183	164	221	194	269	229	289	246
95	484/0.5	220	197	265	233	328	278	352	298
120	608/0.5	253	227	305	268	382	322	410	346
150	750/0.5	290	259	334	300	441	371	473	399
185	925/0.5	329	295	384	340	506	424	542	456
240	1210/0.5	386	347	459	398	599	500	641	538
300	1527/0.5	442	396	532	455	693	576	741	621
400	2036/0.5	-	-	625	536	803	667	865	741

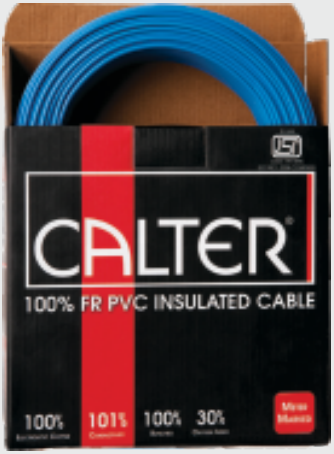
Note :

1) The size and dimensions of conductors are only nominal values for guidelines the actual size may differ as the wire size is determined with its resistance value as per the norms of IS 8130 which is also adopted by Bureau of Indian Standards.
2) REFERENCE METHODS OF INSTALLATION ARE DESCRIBED IN IEEE REGULATIONS & B.S. 7671
3) THESE ARE ALSO APPLICABLE TO CABLES WITH/WITHOUT CIRCUIT PROTECTIVE CONDUCTOR.

CALTER
CABLES CONNECTORS TOOLS

PVC Single Core Flexible Cables

CALTER 650/1100 V Grade Single Core Multi-Strand Annealed Bright, Unilay Copper Conductor, PVC Insulated Cables Conforming to ISI 694/90

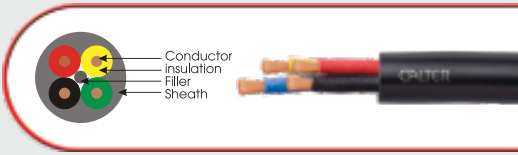


Conductor Area	No. & Size of Strand	Max. DC Resistance at 20°C	Unsheathed Cable		# Current
			Insulation Thickness nominal	Overall dia approx.	Carrying Capacity
		Copper			Copper Conductor
Sq mm	mm	ohms/km	mm	amp	
1.00	14/0.3	18.1	0.70	2.60	10
1.50	22/0.3	12.1	0.70	2.90	13
2.50	36/0.3	7.41	0.80	3.50	20
4.00	56/0.3	4.61	0.80	4.00	26
6.00	84/0.3	3.08	0.80	4.50	35
10.00	80/0.4	1.83	1.00	6.20	45
16.00	126/0.4	1.15	1.00	7.20	55
25.00	196/0.4	0.727	1.20	8.90	75
35.00	276/0.4	0.524	1.20	10.00	90
50.00	396/0.4	0.387	1.40	12.00	120
70.00	354/0.5	0.268	1.40	13.80	150
95.00	484/0.5	0.193	1.60	16.00	175

CALTER Current Carrying Capacity is given considering the standard condition and basic assumption of laying as per ISI 3961 (Part V) 1967

PVC Multi Core Flexible Cables

CALTER 650/1100V Grade Multi Strand Flexible Annealed Copper Conductor, PVC Insulated and Sheathed Multi Core Flexible Cables Conforming to ISI 694/90 with ISI mark



Conductor Area	No. & Size of Strand	Conductor Bunch dia (approx)	Max. DC Resistance at 20°C	Insulation Thickness nominal	Core dia	Sheath Thickness Nominal			
						2 Core	3 Core	4 Core	5 Core
Sq mm	mm	mm	ohms/km	mm	mm	mm	mm	mm	mm
0.50	16/0.2	0.94	39.0	0.6	2.20	0.9	0.9	0.9	0.9
0.75	24/0.2	1.13	26.0	0.6	2.50	0.9	0.9	0.9	0.9
1.00	32/0.2	1.31	19.5	0.6	2.60	0.9	0.9	0.9	1.0
1.50	48/0.2	1.60	13.3	0.6	2.90	0.9	0.9	1.0	1.0
2.50	80/0.2	2.08	7.98	0.7	3.60	1.0	1.0	1.0	1.0
4.00	56/0.3	2.6	4.95	0.8	4.30	1.0	1.0	1.0	1.1

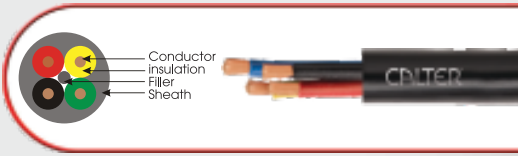
Conductor Insulation Filler Sheath

Overall Diameter (approx)				# Current Rating
2 Core	3 Core	4 Core	5 Core	
mm	mm	mm	mm	amp
6.2	6.6	7.2	7.80	4
6.8	7.2	7.9	8.60	7
7.0	7.5	8.17	9.00	11
7.6	8.1	9.0	9.90	14
9.2	9.9	10.7	11.70	19
10.6	11.3	12.4	13.80	26

CALTER 650/1100V

Grade Multi Strand Flexible Copper Conductor, PVC Insulated and Sheathed Multi Core Flexible Cables Conforming to ISI 694/90

Conductor Area	No. & Size of Strand	Conductor bunch dia (approx)	Max. DC Resistance at 20°C	Insulation Thickness nominal
Sq mm	mm	mm	ohms/km.	mm
6	85/0.3	3.20	3.30	0.80
10	140/0.3	4.67	1.91	1.00
16	226/0.3	6.00	1.21	1.00
25	354/0.3	7.51	0.78	1.20
35	276/0.4	8.74	0.55	1.20
50	396/0.4	10.60	0.39	1.40
70	354/0.5	12.56	0.27	1.40
95	484/0.5	14.54	0.21	1.60



Core dia	Sheath Thickness Nominal			Overall Diameter (approx)			# Current Rating
	2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	
mm	mm	mm	mm	mm	mm	mm	amp
5.00	1.10	1.10	1.20	12.00	12.80	14.20	31
6.60	1.20	1.20	1.30	15.90	17.00	19.00	42
8.00	1.30	1.30	1.40	18.80	20.00	22.40	57
10.90	1.40	1.50	1.60	22.80	24.60	27.40	71
11.40	1.50	1.60	1.70	25.50	27.50	30.60	91
13.70	1.60	1.70	1.80	30.20	32.60	36.30	120
15.60	1.80	1.80	1.90	34.60	37.00	41.20	160
18.00	2.00	2.00	2.00	39.60	42.70	47.60	190

CALTER
CABLES CONNECTORS TOOLS

Submersible 3 Core Flat Cable

Application

The PVC insulated and sheathed 3 core flat cables are used for giving electrical connection to submersible pump motors. These are manufactured keeping in mind the severe, tough and difficult conditions in which they have to operate. The slot available in the tube well being narrow the shape of the cables has to be suited for such an application. These cables conform to and are marked IS: 694:1990 up to 4.00 sq mm. Cables 6.00 sq mm and above generally conform to IS: 694:1990.

Features

Manufactured from bright annealed 99.97% pure bare copper conductors.
Low conductor resistance.
Inner cores are insulated with a special grade PVC compound formulated and manufactured in-house Tough robust outer PVC jacket protects it from the oils, greases, various chemicals and abrasions, thereby giving long life and electrical safety.

Specifications

Working Voltage : Up to 1100 V
Temperature Range : -15°C to +70°C
Sizes : 1.50 sq mm to 4.00 sq mm with ISI mark
6.00 to 95.00 sq mm generally conforming to IS: 694
Color Code : 3 core - red, yellow, blue
black or gray outer sheath

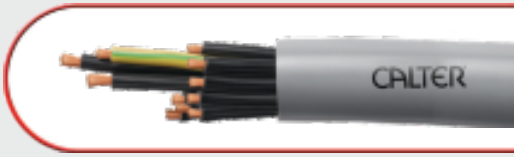
Specification : IS: 694

Packing : 500/1000 meters on drums

Submersible Flat Cable (Three Core) Voltage grade 1100 V, Conforming to IS: 694-1990

Nominal Area of Conductor	No. & Size of Strand Item	Max Thickness of PVC Insulation Nominal	PVC Outer Sheath Nominal	Max Resistance per km at 20°C	Approx. Overall Dimension (W x H)	Current Carrying Capacity at 20°
Sq mm	mm	mm	mm	ohms	mm	amp
1.5	22/0.3	0.8	1.2	12.10	11.5 x 5.40	18
2.5	36/0.3	0.9	1.2	7.41	14.0 x 6.40	24
4.0	56/0.3	1.0	1.2	4.95	16.5 x 7.20	32
6.0	84/0.3	1.0	1.2	3.30	18.0 x 8.00	42
10.0	80/0.4	1.0	1.4	1.91	22.5 x 9.6	55
16.0	126/0.4	1.0	1.4	1.21	26.5 x 11.2	75
25.0	196/0.4	1.2	2.0	0.78	32.5 x 13.5	100

Control Cable



PVC Insulated and Sheathed Flexible Control Cables

Specifications

Core Colors	: Black with white numbering + yellow/green/gray with number printing
Sheath Colors	: Gray, black and white
Conductor	: Annealed bare copper as per IS: 8130
Insulating PVC	: Type A conforming to IS: 5831
PVC Sheath	: Type ST-1 conforming to IS: 5831; HR, FR and FRLS sheathing can be provided if required
Rated Voltage	: 300/500 V
Test Voltage	: AC 2000 V
Min. Bending Radius	: 4 times the overall diameter of cable
Tensile Strength	: 12.50 N per sq mm of PVC insulation and sheath
Max. Working Temperature	: 70°C; also available for 85°C and 105°C
Max. Short Circuit Temperature	: 160°C
Minimum laying Temperature	: 15°C
Usage	: For medium mechanical stresses with free movement without tensile stress in dry & moist condition. For measuring and control cables in tool machines, conveyor belts, production lines in machinery production and steel production

No. of Cores X Cross Section	Max. Dia of Conductor Strand	Insulation Thickness (Nominal)	Finished Cable Dia (Nominal)	Approx. Weight	Max. Electrical Resistance at 20°C
	mm	mm	mm	kg/km	ohms/km
5 x 0.5	0.2	0.6	6.2	52.3	39
6 x 0.5	0.2	0.6	6.7	63.6	39
7 x 0.5	0.2	0.6	7.4	74.2	39
8 x 0.5	0.2	0.6	8.0	89.5	39
10 x 0.5	0.2	0.6	8.8	104.2	39
12 x 0.5	0.2	0.6	9.1	110.8	39
14 x 0.5	0.2	0.6	9.5	122.0	39
16 x 0.5	0.2	0.6	10.0	133.0	39
18 x 0.5	0.2	0.6	10.7	149.4	39
20 x 0.5	0.2	0.6	11.2	161.8	39
24 x 0.5	0.2	0.6	13.0	211.0	39
27 x 0.5	0.2	0.6	13.5	226.0	39
37 x 0.5	0.2	0.6	15.7	298.6	39
61 x 0.5	0.2	0.6	19.4	445.4	39
5 x 0.75	0.2	0.6	6.8	58.6	26
6 x 0.75	0.2	0.6	7.5	70.7	26
7 x 0.75	0.2	0.6	8.1	81.9	26
8 x 0.75	0.2	0.6	8.9	92.3	26
10 x 0.75	0.2	0.6	9.6	107.5	26
12 x 0.75	0.2	0.6	9.9	103.6	26
14 x 0.75	0.2	0.6	10.6	127.0	26

No. of Cores X Cross Section	Max. Dia of Conductor Strand	Insulation Thickness (Nominal)	Finished Cable Dia (Nominal)	Approx. Weight	Max. Electrical Resistance at 20°C
	mm	mm	mm	kg/km	ohms/km
16 x 0.75	0.2	0.6	11.2	141.8	26
18 x 0.75	0.2	0.6	11.9	160.1	26
20 x 0.75	0.2	0.6	12.6	179.5	26
24 x 0.75	0.2	0.6	14.5	237.7	26
27 x 0.75	0.2	0.6	15.2	261.2	26
37 x 0.75	0.2	0.6	17.2	334.4	26
61 x 0.75	0.2	0.6	20.9	493.8	26
5 x 1.0	0.2	0.6	7.2	63.5	19.5
6 x 1.0	0.2	0.6	8.0	72.3	19:5
7 x 1.0	0.2	0.6	8.6	83.6	19.5
8 x 1.0	0.2	0.6	9.4	99.9	19.5
10 x 1.0	0.2	0.6	10.4	122.3	19.5
12 x 1.0	0.2	0.6	10.7	129.4	19.5
14 x 1.0	0.2	0.6	11.3	144.3	19.5
16 x 1.0	0.2	0.6	12.0	162.8	19.5
18 x 1.0	0.2	0.6	12.7	182.3	19.5
20 x 1.0	0.2	0.6	13.5	206.0	19.5
24 x 1.0	0.2	0.6	14.7	244.3	19.5
27 x 1.0	0.2	0.6	15.8	282.2	19.5
37 x 1.0	0.2	0.6	18.4	382.7	19.5
61 x 1.0	0.2	0.6	22.2	557.1	19.5

Control Cable

PVC Insulated and Sheathed Flexible Control Cables

No. Of Cores X Cores Section	Max. Dia Of Conductor Strands	Thickness of Insulation Nominal	Finished Cable Dia Nominal	Approx. Net weight	Max. Electrical Resistance at 20°C
Sq mm	mm	mm	mm	kg/km	ohms/km
5 x 1.5	0.2	0.6	8.2	86.0	13.3
6 x 1.5	0.2	0.6	8.9	99.5	13.3
7 x 1.5	0.2	0.6	9.8	118.6	13.3
8 x 1.5	0.2	0.6	10.6	137.0	13.3
10 x 1.5	0.2	0.6	11.7	164.7	13.3
12 x 1.5	0.2	0.6	12.1	175.5	13.3
14 x 1.5	0.2	0.6	12.9	198.1	13.3
16 x 1.5	0.2	0.6	13.6	219.1	13.3
18 x 1.5	0.2	0.6	14.5	247.7	13.3
20 x 1.5	0.2	0.6	15.2	271.2	13.3
24 x 1.5	0.2	0.6	19.0	360.2	13.3
27 x 1.5	0.2	0.6	20.2	418.1	13.3
37 x 1.5	0.2	0.6	25.3	471.2	13.3
61 x 1.5	0.2	0.6	10.2	733.6	13.3
5 x 2.5	0.2	0.6	12.0	137.6	7.98
6 x 2.5	0.2	0.6	12.1	182.8	7.98
7 x 2.5	0.2	0.6	13.2	185.5	7.98
8 x 2.5	0.2	0.6	15.1	217.0	7.98
10 x 2.5	0.2	0.6	15.2	277.7	7.98
12 x 2.5	0.2	0.6	16.1	281.2	7.98
14 x 2.5	0.2	0.6	16.8	313.0	7.98
16 x 2.5	0.2	0.6	18.1	393.0	7.98
18 x 2.5	0.2	0.6	18.2	390.3	7.98
20 x 2.5	0.2	0.6	20.7	394.4	7.98
24 x 2.5	0.2	0.6	19.5	504.4	7.98
27 x 2.5	0.2	0.6	21.2	528.0	7.98
37 x 2.5	0.2	0.6	23.5	644.3	7.98
61 x 2.5	0.2	0.6	32.0	1177.5	7.98

Braided Cable

Multi Core Flexible Braided Cables

Specifications

Core Colors	: Up to 4 cores. Black with white numbering + yellow/green
Sheath Colors	: Gray, black and white
Conductor	: Annealed bare copper as per IS: 8130
Insulating PVC	: Type A conforming to IS: 5831
Shielding	: Aluminum mylar tape is wrapped on the laid up cores. Identification nos. are marked on the cores.
Braiding	: Annealed tinned copper wire braiding
PVC Sheath	: Type ST-1 conforming to IS: 5831 HR, FR and FRLS sheathing can be provided if required
Rated Voltage	: 300/500 V
Test Voltage	: AC 2000 V
Min. Bending Radius	: 6 times the overall diameter of cable
Tensile Strength	: 12.50 N per sq mm of PVC insulation and sheath
Max. Working Temperature	: 70°C; also available for 85°C and 105°C
Max. Short Circuit Temperature	: 160°C
Usage	: Suitable for interconnection of electrical measuring devices to instrumental panel or instrument. Also for measuring, monitoring and control in machine tool manufacturing in plant engineering, in places where interference field can distort a signal transmission or where interference pulses arising in the mains must be confined.

No. of Cores X Cross Section	Dia of Conductor Strands	Finished Cable Dia Nominal	Approx. Weight	Max. Electrical Resistance at 20°C
sq mm	mm	mm	kg/km	ohm/km
2 x 0.5	0.2	8.3	129.0	39
3 x 0.5	0.2	8.6	150.0	39
4 x 0.5	0.2	9.4	170.0	39
5 x 0.5	0.2	10.1	199.0	39
7 x 0.5	0.2	11.0	235.0	39
12 x 0.5	0.2	12.1	320.0	39
19 x 0.5	0.2	13.0	428.0	39
24 x 0.5	0.2	14.7	503.0	39
2 x 0.75	0.2	8.7	143.0	26
3 x 0.75	0.2	9.0	155.0	26
4 x 0.75	0.2	9.9	190.0	26
5 x 0.75	0.2	10.8	228.0	26
7 x 0.75	0.2	13.0	323.0	26
12 x 0.75	0.2	15.8	410.0	26
19 x 0.75	0.2	17.9	560.0	26
24 x 0.75	0.2	22.8	730.0	26
2 x 1.0	0.2	9.4	150.0	19.5
3 x 1.0	0.2	9.8	163.0	19.5
4 x 1.0	0.2	10.8	200.0	19.5
5 x 1.0	0.2	12.1	239.0	19.5
7 x 1.0	0.2	14.5	289.0	19.5
12 x 1.0	0.2	17.4	464.0	19.5
19 x 1.0	0.2	20.7	628.0	19.5

No. of Cores X Cross Section Strands	Dia of Conductor Nominal	Finished Cable Dia	Approx. Weight	Max. Electrical Resistance at 20° C
Sq mm	mm	mm	kg/km	ohms/km
2 x 1.5	0.2	10.2	162.0	13.3
3 x 1.5	0.2	10.9	187.0	13.3
4 x 1.5	0.2	12.20	240.0	13.3
5 x 1.5	0.2	13.30	289.0	13.3
7 x 1.5	0.2	16.00	383.0	13.3
12 x 1 .5	0.2	19.60	592.0	13.3
19 x 1 .5	0.2	23.40	806.0	13.3
2 x 2.5	0.2	11.5	272.0	7.98
3 x 2.5	0.2	12.2	298.0	7.98
4 x 2.5	0.2	13.4	345.0	7.98
5 x 2.5	0.2	14.9	427.0	7.98
7 x 2.5	0.2	17.9	561.0	7.98
12 x 2.5	0.2	21.9	857.0	7.98
19 x 2.5	0.2	26.1	1355.0	7.98

Instrumentation Cable

Shielded/Unarmoured/Armoured/Frls/Nonfrls

Specification : Generally to BS: 5308 Part 1 (PVC & polyethylene insulation)

Application : Cables designed for the local inter connection of ground, sea, and airborne instruments and electronic equipments. It has excellent characteristics to external noise pickups and heavy attenuation to it during transmission of very low level electrical signals. These cables can be manufactured in pair and multi pairs & triad with different size for conductors.

Construction		Technical Data	
Conductor	Plain annealed and tinned copper wire in accordance with BS:6360 & IS: 8130 sizes: 0.50 sq mm to 1.50 sq mm	Grade Temperature range Conductor resistance at 20°C	BS: 6360 -30°C to + 70°C As per IS: 8130
Insulation	The insulation PVC complies with BS & IS standards	Working voltage Insulation resistance Capacitance	300/500 V 36.7 M ohm -km min 250 nF/km max
Color Code	As per BS: 5308 Pt-2 & IS : 694	Color coding	as per IS & BS standards
Shielding	No. of cores laid up in concentric layers and shielded with aluminum screen and a tinned copper drain wire of size 0.5 mm	Capacitance core to screen L/R ratio (max)	450 nf /km max 25 micro Henry/ohms
Inner Coating	Extruded PVC as per IS: 1554 & BS: 7655	Min bending radius	12 x cable dia
Armour	Galvanized steel wires or strip as per IS:1554 & BS: 7655		
Printing	Cable size, standard no., type, year of manufacture, sequential marking and other details on request		

NOTE: Alteration from standards can be done as per customer requirement. The actual product may differ from the given picture in construction/color.

Signal, Communication & Multipair Light Current Control Cables

Shielded/Un-shielded, Armoured, Frls/Non-frls

Specification : Generally to BS: 5308 Part 1 (PVC & polyethylene insulation)

Application : Cables designed for the local inter connection of ground, sea, and airborne instruments and electronic equipments. It has excellent characteristics to external noise pickups and heavy attenuation to it during transmission of very low level electrical signals. These cables can be manufactured in pair and multi pairs & triad with different size for conductors.

Construction		Technical Data	
Conductor	Plain annealed and tinned copper wire in accordance with BS:6360 & IS: 8130 sizes: 0.50 sq mm to 1.50 sq mm	Grade Temperature range Conductor resistance at 20°C	BS: 6360 -30°C to + 70°C As per IS: 8130
Insulation	The insulation PVC complies with BS & IS standards	Working voltage Insulation resistance Capacitance	300/500 V 36.7 M ohm -km min 250 nF/km max
Color Code	As per BS: 5308 Pt-2 & IS : 694	Color coding	as per IS & BS standards
Shielding	No. of cores laid up in concentric layers and shielded with aluminum screen and a tinned copper drain wire of size 0.5 mm	Capacitance core to screen L/R ratio (max)	450 nf /km max 25 micro Henry/ohms
Inner Coating	Extruded PVC as per IS: 1554 & BS: 7655	Min bending radius	12 x cable dia
Armor	Galvanized steel wires or strip as per IS:1554 & BS: 7655		
Printing	Cable size, standard no., type, year of manufacture, sequential marking and other details on request		

Networking Data Cable: CAT - 5E, CAT - 6

Applications

This cable is used for inter-connection for the transmission and data processing of electronic equipment.

Colour Code		
No of pairs	A - Wire	B - Wire
1	white	blue
2	white	orange
3	white	green
4	white	brown

Construction	
Conductor	Solid annealed plain copper wire
Insulation	PE/PP as per TIA/EIA - 568 B2, color code as given in table
Assembly	Cores twisted into pairs and pairs are stranded into a single unit to form a cable.
Sheath	Gray colored PVC as per IEC 189-2

Technical Data		
Specification	IEC 189-2	
Temperature Range Stationary Flexing	 -30°C to + 70°C -5°C to +50°C	
Conductor Dia (mm)	0.4	0.5
Max Conductor Resistance at 20°C /km	153.0	97.38
Test Voltage kv (DC)/1 minute	1.5	
Mutual Capacitance at 1 kHz (nF/km)	Ind. max 120	
Capacitance unbalance between pair to pair at 1 kHz (PF/500 mtr)	Ind. max 400	

Note: Tinned copper conductor can be supplied on demand. The actual color of the product may differ from the given picture.

Thermocouple Extension Type Compensating Cable

Applications

Can be used for instrumentation/process control in chemical and petrochemical industries and are required to transfer reference junction to the control room.

Construction		Technical Data	
Conductor	Solid Type of J (Iron/Constanant) K (chromel/alumel) T (copper/ constanant) E (copper/constanant) Type S&R (copper/alloy #11) As per spec ANSI MC 96.1 IN 16 AWG (1.29 mm) for single pair & 20 AWG (0.81 mm) for multi pair cables	Temperature Range EX type JX type KX type TX type Conductor loop Resistance at 20°C	 -18 to 204°C -18 to 204°C -18 to 204°C -59 to 93°C As per specifications ANSI MC 96.1
Insulation	PVC Type T11 as per BS: 7655 Thickness should be minimum 0.38 mm	Min insulation Resistance	100 Mega ohms/km
Color code	Ex type: chromel (+) purple & constanant (-) red JX type iron (+) white & constanant (-) red KX type: chromel (+) yellow & alumel (-) red TX type: copper(+) blue & constanant (-) red	Mutual capacitance Core to core Core to screen	 250 nF/km max 450 nF/km max
Shielding	Each twisted pair screened with aluminum Mylar and a drain wire of size 0.5 sq mm for maximum electrostatic noise and cross talk rejection	Inductance (max) Thermal EMF test	0.9 Micro Henry/km as per ANSi MC 96.1
Inner coating	Extruded PVC type TMI of BS:7655 Armour galvanized steel round wire as per BS: 1442	Working voltage	300/500 volts
Sheath	Extruded PVC type TMI of BS:7655 The color of the sheath shall be purple, black, yellow & blue respectively for type EX, JX, KX, and TX.	RMS test voltage Core to core and core to screen	1000V RMS for 1 minute
Printing	Instrumentation cable shielded #PRX size Type of conductor 300/500 volts year of manufacture	Minimum bending Radius	12 x cable diameter

Note: Sheath material should be FR/FRLS/Zero Halogen as per requirement. The actual color of the product may differ in construction/color from the given picture.

Co-axial Cables: RG Series

Applications
Used for high frequency equipments and systems for transmission and reception.

Construction

Conductor	Solid/stranded, plain/tinned copper silver plated copper/copper covered steel wires
Insulation	Solid/foam Polyethylene/ETFE/PTFE/FEP
Screening	As per particular cable type plain/tinned/silver plated copper wire braiding, aluminum/bonded polyester with aluminum/aluminum wire braiding
Jacket	Specially formulated PVC/FR or FRLS PVC as per specification and customer requirement.

CO-AXIAL CABLES - 50 OHMS

UR M TYPE	MIL-C-17 F& RG SERIES	IEC	JIS	JSS WRA/ WRC	SHIELDING BRAID	OVERALL DIA. MM	MAX R.F. VOLTAGE KV PEAK	NOMINAL ATTENUATION DB/100 M	NOMINAL CAPACITANCE pF/M
43	-	50-3-4	-	-	PC	5.0	2.6	19	100
67	213/U	50-7-2	8D-2V	05	PC	10.3	6.5	9	97
74	218/U	50-17-2	-	10	PC	22.1	15.0	5	97
76	58C/U	50-3-1	3D-2V	02	PC	5.0	2.6	22	100
116	174/U	-	1.5D-2V01		PC	2.8	1.2	43	97
911	-	50-7-3	-	-	2 x PC	11.0	6.5	10	100
112	214/U	50- 7 -6	8D-2W	06	2 x PC	10.8	6.5	11	97
115	-	-	-	-	PC + PC	7.2	2.6	19	100

COAXIAL CABLES -75 OHMS

57	11A/U	75-7-5	7C-2V	15	PC	10.3	5.0	11	67
65	-	75-7-4	-	-	PC	10.3	5.0	9	67
70	-	-	-	-	PC	5.8	1.8	22	67
77	164/U	75-17-2	-	-	PC	22.0	12.5	5	67
90	59B/U	75-4-4	3C-2V	12	PC	6.0	2.6	16	69
117	-	-	-	-	PC	6.0	2.6	20	67
60	216/U	75-7-3	7C-2W	17	2 x SC	11.0	5.0	11	67

Note: The actual color of the product may differ from the color in the given picture.

HO7V-R Single Core Cables

450/750 V Insulated Single Core Cables with Copper Conductor

Standards

IEC: 60227-3
BS: 6004

Construction

Conductor : Stranded copper
Insulation : PVC

Application

In dry rooms, switch and distribution boards, for laying in conduit on and under plaster and on insulation supports above plaster.

Specifications

Max. Operating Temperature: 70°C
Short Circuit Temperature: 160°C

Colour code

Red, yellow, Blue, Black, Green/Yellow

Nominal Cross Section sq mm	Overall Diamete mm approx.	Weight kg/km approx.	Conductor DC Resistance at 20°C max. ohm/km	Current Carrying Capacity in Ground (A)	Air (A)
1.5	3	20.6	12.1	16	25
2.5	3.6	31.5	7.41	21	34
4	4.12	46.6	4.61	27	45
6	4.75	66.3	3.08	35	57
10	6	109	1.83	48	78
16	7.1	166	1.15	65	104
25	8.4	264	0.727	88	137
35	9.6	354	0.524	110	168
50	11.2	475	0.387	140	210
70	12.6	682	0.268	175	260
95	15	931	0.193	210	310
120	17	1171	0.153	250	365

HO5VV-F Flexible Cords

300/500 V PVC Insulated Multi Core Cables with Flexible Conductor

Standards

IEC: 60227-5
BS: 6500

Construction

Conductor : Flexible Copper
Insulation : PVC
Outer Sheath : PVC

Application

For household appliances working under humid and medium mechanical stress.

Specifications

Max. Operating Temperature: 70°C
Short Circuit Temperature: 160°C

No. of Cores x sq mm	Overall Diameter mm approx.	Weight kg/km approx.	Conductor DC Resistance at 20 °C max ohms/km	Current Carrying Capacity in Air (A)
2 x 0.75	6	57	26	13
2 x 1	6.4	65	19.5	16
2 x 1.5	7.4	83	13.3	20
2 x 2.5	9	130	7.98	27
2 x 4	11.2	170	4.95	34
3 x 0.75	6.4	70	26	13
3 x 1	7	80	19.5	16
3 x 1.5	8.3	110	13.3	20
3 x 2.5	9.8	160	7.98	27
3 x 4	12.1	252	4.95	34
4 x·0.75	6.9	85	26	13
4 x 1	7.6	100	19.5	16
4 x 1.5	9	131	13.3	20
4 x 2.5	10.7	200	7.98	27
4 x 4	13.3	310	4.95	34
5 x 0.75	8.6	112	26	13
5 x I	9.1	131	19.5	16
5 x 1.5	10.8	188	13.3	20
5 x 2.5	12.7	272	7.98	27
5 x 4	14.7	388	4.95	34

H05V-U H07V-U

450/750 V PVC Insulated Non-sheathed Single Core Cables with Solid Conductors

Standards

IEC: 60227-3
BS: 6004

Construction

Conductor : Solid copper
1nsulation : PVC

Application

In dry rooms, switch and distribution boards, for laying in conduit on and under plaster and on insulating supports above plaster.

Specifications

Max. Operating Temperature: 70°C
Short Circuit Temperature: Cross section < 300 sq mm 160 °C

Nominal Cross Section sq mm	Overall Diameter mm approx.	Weight kg/km approx.	Conductor DC Resistance at 20°C max. ohm/km	Current Carrying Capacity in Ground (A)	Air (A)
H05V-U 300/500 V					
0.5	2	9	36	-	-
0.75	2.2	11	24.5	-	16
1	2.4	14	18.1	11	19
H07V-U 450/750 V					
1.5	2.8	20	12.1	16	25
2.5	3.4	31	7.41	21	34
4	3.8	45	4.61	27	45
6	4.4	66	3.08	35	57
10	5.5	106	1.83	48	78

Heat Resistant PVC Insulated Panel Wires

Application

These cables are intended for use in fixed installations such as power, lighting, appliances and switchgear & control panel wiring.

Harmonised Code

- 0.5 sq mm to 1.0 sq mm wire H05V2-K
- 1.5 sq mm & 300 sq mm stranded conductor wire H07V2-K

Construction

Reference: 2491 X HR
Conductor: Flexible plain copper class 5 to BS: 6360
(Tinned copper conductor available on request)
Insulation: PVC Type TI 3 to BS7655

Standard Colors

Color : Red, yellow, blue, black, green, yellow/green, grey, white, orange, brown, violet, pink, turquoise. other colors available on request

Technical Data

Max. Operating Temperature : 105°C
Rated Voltage : 600/1000V
Standards : BS: 6231

Conductor				Radial Thickness of Insulation mm	Approx. Overall Diameter mm	Approx. Net Weight kg/km	Current Carrying Capacity A
Nominal Cross-Sectional Area sq mm	Number of Strands	Diameter of Strand	Resistance at 20°C ohms/km				
0.5	16	0.20	39.00	0.6	2.1	9	8
0.75	24	0.20	26.00	0.6	2.3	12	10
1.0	32	0.20	19.50	0.6	2.8	15	12
1.5	22	0.30	13.30	0.7	3.1	21	16
2.5	36	0.30	7.98	0.8	3.6	33	21
4.0	56	0.30	4.95	0.8	4.1	49	28
6.0	84	0.30	3.30	0.8	5.1	70	36
10.0	80	0.40	1.91	1.0	6.8	116	50
16.0	126	0.40	1.21	1.0	8.0	180	68
25.0	196	0.40	0.78	1.2	9.6	280	89
35.0	276	0.40	0.56	1.2	10.8	380	110
50.0	396	0.40	0.39	1.4	12.5	510	134
70.0	360	0.50	0.21	1.6	17.5	990	207
120.0	608	0.50	0.16	1.6	19.5	1190	239

Heat Resistant Multi Core PVC Insulated & Sheathed Flexible Cables

Multi Core Flexible Cables

Application

General purpose indoors or outdoors in dry or damp situations.
Portable tools, washing machines, vacuum cleaners, lawn mowers and light domestic applications.

Harmonised Code

H05Y2Y2-F

Construction

Reference	: 0.5 sq mm to 4 sq mm - 309-Y
Conductor	: Flexible plain copper class 5 to BS: 6360
Insulation	: PYC Type TI 3 to BS: 7655
Lay-up	: Cores are twisted
Sheath	: PYC Type TM 3 to BS: 7655

Color Coding

Cores :
2 core - brown, blue
3 core - brown, blue, green/yellow
4 core - brown, blue, black, green/yellow
5 core - brown, blue, black, Black, green/yellow

As per new Harmonised Code
2 core - brown, blue
3 core - brown, blue, green/yellow
4 core - brown, black, grey, green/yellow
5 core - brown, black, grey, blue, green/yellow

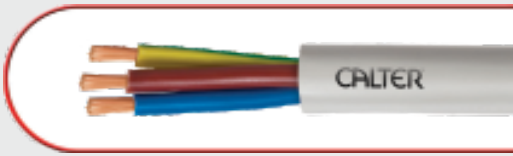
Sheath

White, black, grey
other colors available on request

Technical Data

Max. Operating Temperature	: 105°C
Rated Voltage	: 0.5 sq mm to 4 sq mm - 300/500V 6.0 sq mm to 25 sq mm - 600/1000V
Standards	: BS: 6141

Heat Resistant Multicore PVC Insulated & Sheathed Flexible Cables



No. of Cores	Nominal Cross-Sectional Area sq mm	Number of Strands	Diameter of Strand	DC Resistance at 20°C ohms/km	Radial Thickness of Insulation mm	Thickness of Sheath mm	Max. Overall Diameter mm	Approx. Net Weight kg/km	Current Carrying Capacity A
2	0.5	16	0.20	39.00	0.6	0.8	6.8	52	6
2	0.75	24	0.20	26.00	0.6	0.8	7.2	63	9
2	1.0	32	0.20	19.50	0.6	0.8	8.0	73	14
2	1.5	48	0.20	13.30	0.7	0.8	8.6	95	18
2	2.5	80	0.20	7.98	0.8	1.0	10.6	145	24
2	4.0	56	0.30	4.95	0.8	1.1	11.8	190	32
2	6.0	84	0.30	3.30	0.8	1.2	13.1	256	42
2	10.0	80	0.40	1.91	1.0	1.4	16.1	397	55
3	0.5	16	0.20	39.00	0.6	0.8	7.2	62	6
3	0.75	24	0.20	26.00	0.6	0.8	7.5	74	9
3	1.0	32	0.20	19.50	0.6	0.8	8.4	86	14
3	1.5	48	0.20	13.30	0.7	0.9	9.4	120	18
3	2.5	80	0.20	7.98	0.8	1.1	11.4	180	24
3	4.0	56	0.30	4.95	0.8	1.2	12.6	236	32
3	6.0	84	0.30	3.30	0.8	1.4	14.2	344	42
3	10.0	80	0.40	1.91	1.0	1.4	17.1	489	55
4	0.5	16	0.20	39.00	0.6	0.8	7.9	72	6
4	0.75	24	0.20	26.00	0.6	0.8	8.3	83	9
4	1.0	32	0.20	19.50	0.6	0.9	9.0	101	14
4	1.5	48	0.20	13.30	0.7	1.0	10.5	141	18
4	2.5	80	0.20	7.98	0.8	1.1	12.5	214	24
4	4.0	56	0.30	4.95	0.8	1.4	14.0	286	32
4	6.0	84	0.30	3.30	0.8	1.4	15.5	411	42
4	10.0	80	0.40	1.91	1.0	1.4	18.6	637	55
5	0.5	16	0.20	39.00	0.6	0.9	8.6	89	6
5	0.75	24	0.20	26.00	0.6	0.9	9.2	113	9
5	1.0	32	0.20	19.50	0.6	0.9	9.6	130	14
5	1.5	48	0.20	13.30	0.7	1.0	11.2	171	18
5	2.5	80	0.20	7.98	0.8	1.2	13.4	265	24
5	4.0	56	0.30	4.95	0.8	1.4	15.4	353	32

Bare Copper & Yellow/green Earthing Conductor

Application

These cables are intended for use in electrical installations for earthing purpose

Construction

Conductor: Stranded plain copper class 2 to BS: 6360
Insulation: PVC Type TI 1 to BS: 7655 for Yellow/Green earth wire only

Packaging

- All sizes can be supplied in non-returnable ply/wooden reels of 500 mtr and 1000 mtr
- Customised lengths available on request

Technical Data

Max. Operating Temperature : 70°C
Rated Voltage : 450/750V
Standards : BS: 6004

Bare Copper

Conductor			
Nominal Cross-Sectional Area sq mm	Number of Strands	Diameter of Strand	Resistance at 20°C ohms/km
16.0	7	1.70	1.15
25.0	7	2.14	0.73
35.0	7	2.52	0.52
50.0	19	1.78	0.39
70.0	19	2.14	0.27
95.0	19	2.52	0.19
120.0	37	2.04	0.15

Yellow/green Earth Wire

Conductor				Radial Thickness of Insulation mm	Approx. Overall Diameter mm	Approx. Net Weight kg/km	Current Carrying Capacity A
Nominal Cross-Sectional Area sq mm	Number of Strands	Diameter of Strand	Resistance at 20°C ohms/km				
10.0	7	1.35	1.83	1.0	6.1	113	50
16.0	7	1.70	1.15	1.0	7.1	171	68
25.0	7	2.14	0.73	1.2	8.9	268	89
35.0	7	2.52	0.52	1.2	10.0	363	110
50.0	19	1.78	0.39	1.4	11.7	484	134
70.0	19	2.14	0.27	1.4	13.5	685	171
95.0	19	2.52	0.19	1.6	15.8	945	207
120.0	37	2.04	0.15	1.6	17.5	1180	239

Power and Signaling Cables, XLPE Insulated, PVC Sheathed

0.6/1 KV XLPE Insulated Low Voltage Power Cables

Construction

Conductor : Solid or stranded copper
Insulation : XLPE
Filler : PVC
Outer Sheath : PVC

Application

Where mechanical damage is unexpected in doors, underground, in cable ducts and industrial plants to be power cables.

Specifications

Max. Operating Temperature: 90°C
Short Circuit Temperature: 200°C
Min. Bending Radius: 15 x dia

Number of Conductors per Nominal Cross Section	Class of Conductor	Insulation Thickness Nominal	Sheath Thickness Nominal	Overall Diameter Nominal	Max Conductor Resistance at 20°C	Indicative Cable Weight
n x sq mm		mm	mm	mm	ohms/km	kg/km
1 x 1.5	1	0.7	1.4	5.9	12.1	50
1 x 2.5	1	0.7	1.4	6.2	7.41	60
1 x 4	1	0.7	1.4	6.7	4.61	75
1 x 6	2	0.7	1.4	7.6	3.08	100
1 x 10	2	0.7	1.4	8.6	1.83	150
1 x 16	2	0.7	1.4	9.2	1.15	210
1 x 25	2	0.9	1.4	10.8	0.727	300
1 x 35	2	0.9	1.4	11.7	0.524	400
1 x 50	2	1	1.4	13.1	0.367	525
1 x 70	2	1.1	1.4	15	0.268	735
1 x 95	2	1.1	1.5	17	0.193	990
2 x 1.5	1	0.7	1.8	10.1	12.1	130
2 x 2.5	1	0.7	1.8	10.9	7.41	160
2 x 4	1	0.7	1.8	11.8	4.61	210
2 x 6	2	0.7	1.8	13.5	3.08	290
2 x 10	2	0.7	1.8	14.7	1.63	420
2 x 16	2	0.7	1.8	16.6	1.15	575
2 x 25	2	0.9	1.8	19.8	0.727	850
2 x 35	2	0.9	1.8	21.6	0.524	1100
3 x 1.5	1	0.7	1.8	10.6	12.1	150
3 x 2.5	1	0.7	1.8	11.4	7.41	190
3 x 4.0	1	0.7	1.8	12.3	4.61	250
3 x 6.0	2	0.7	1.8	14.2	3.08	350
3 x 10.0	2	0.7	1.8	15.7	1.63	500
3 x 16.0	2	0.7	1.8	17.3	1.15	730
3 x 25.0	2	0.9	1.8	21.0	0.727	1050
3 x 35.0	2	0.9	1.8	22.9	0.524	1400
4 x 1.5	1	0.7	1.8	11.3	12.1	180
4 x 2.5	1	0.7	1.8	12.2	7.41	220
4 x 4.0	1	0.7	1.8	13.3	4.61	300
4 x 6.0	2	0.7	1.8	15.0	3.08	420
4 x 10.0	2	0.7	1.8	17.25	1.63	630
4 x 16.0	2	0.7	1.8	18.8	1.15	900
4 x 25.0	2	0.9	1.8	23.0	0.727	1350
4 x 35.0	2	0.9	1.8	25.1	0.524	1750

SOLAR CABLE

Application

CALTER' PV Cables is used for photovoltaic systems, This cable links photovoltaic panels and inverters.
It is used for fixed installations outdoors & indoors, and equipment with high mechanical requirements and extreme weather conditions.

Construction

Conductor : Electrolytic Flexible Tinned Copper Class - 5 according to IEC 60228
Insulation : special polyolefin Elastomer-Cross Linked, Halogen Free
Sheath : special polyolefin Elastomer-Cross Linked, Halogen Free (Red/Black)

Techical Data

Halogen free	:	IEC 60754-1
Rated Voltage Uo/U (Um)	:	0.6 / 1 kV
Operating Temperature range	:	-40 C to +90 C
Max. Conductor temperature in service	:	120 C
Short-circuit max. conductor temperature	:	250 C
Gases Corrosivity	:	IEC 60754-2
Smoke density	:	IEC 61034-2
Weather resistance	:	Excellent
UV Resistant	:	Yes
Flame retardent	:	IEC 60332 - 1

Nominal Cross Sectional Area SQ MM	No of Strands	Diameter of Strand mm	Resistance at 20°C ohms/km	Nominal insulation thickness mm	Nominal Sheath thickness mm	Nominal Overall Diameter mm	Current Carrying Capacity A
1.50	30	0.25	13.70	1.14	0.82	5.40	30
2.50	50	0.25	8.21	1.14	0.82	5.80	41
4.00	56	0.30	5.09	1.14	0.82	6.40	55
6.00	84	0.30	3.39	1.14	0.82	7.00	70
10.0	80	0.40	1.95	1.52	0.82	8.60	98
16.0	126	0.40	1.24	1.52	0.82	9.80	132
25.0	196	0.40	0.795	1.52	0.82	11.10	176
35.0	276	0.40	0.565	1.52	0.82	12.30	218

SURFACE WIRES LSZH

Application

CALTER' Surface Wires LSZH are used for fixed wiring and mains cable.
Used for mains connections under heavy current loads

Construction

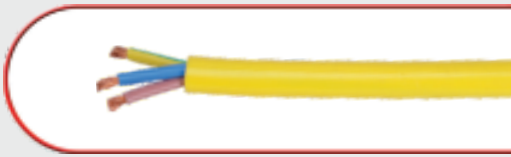
Conductor : Electrolytic Stranded plain Copper Class - 2 according to IEC 60228
Insulation : XLPE
Sheath : special polyolefin thermoplastic-Cross Linked, LSZH

Techical Data

Halogen free	:	IEC 60754-1
Rated Voltage Uo/U (Um)	:	0.6 / 1 kV
Operating Temperature range	:	-40 C to +90 C
Max. Conductor temperature in service	:	120 C
Short-circuit max. conductor temperature	:	250 C
Gases Corrosivity	:	IEC 60754-2
Smoke density	:	IEC 61034-2
Weather resistance	:	Excellent
UV Resistant	:	Yes
Flame retardent	:	IEC 60332 - 1

Nominal Cross Sectional Area SQ MM	No of Strands	No of Strands mm	Resistance at 20°C ohms/km	Nominal insulation thickness mm	Nominal Sheath thickness mm	Nominal Overall Diameter mm	Current Carrying Capacity A
1.50	30	0.25	13.70	1.14	0.82	5.40	30
2.50	50	0.25	8.21	1.14	0.82	5.80	41
4.00	56	0.30	5.09	1.14	0.82	6.40	55
6.00	84	0.30	3.39	1.14	0.82	7.00	70
10.0	80	0.40	1.95	1.52	0.82	8.60	98
16.0	126	0.40	1.24	1.52	0.82	9.80	132
25.0	196	0.40	0.795	1.52	0.82	11.10	176
35.0	276	0.40	0.565	1.52	0.82	12.30	218

HO7BQ-F CABLE



Application

CALTER' TPU Cables is a extreme mechanical, abrasion, tear, notch and wear resistant cable. Applicable where high wear, friction resistance & extreme bending is required. The cable is particulary suitable for food & wine industry as the polyurethane is microbe & hydrolysis resistant. Also used in Wind mills,Marine & submersible pumps

Construction

Conductor : Electrolytic Flexible plain Copper Class - 5 according to IEC 60228
Insulation : Special EPR
Sheath : PUR Halogen free Polyurethane compound type ether grade

Colour Coding

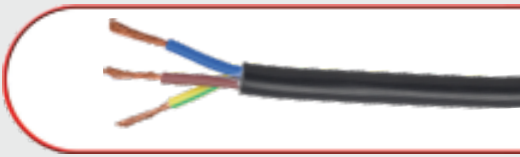
2 core - brown, blue
3 core - brown, blue, green/yellow
4 core - brown, blue, black, green/yellow
5 core - brown, blue, black, Black, green/yellow
Sheath Colour : Yellow/Orange

Techical Data

Halogen free	:	IEC 60754-1
Rated Voltage Uo/U (Um)	:	0.6 / 1 kV
Operating Temperature range	:	-40 C to +90 C
Max. Conductor temperature in service	:	90 C
Short-circuit max. conductor temperature	:	250 C
Gases Corrosivity	:	IEC 60754-2
Smoke density	:	IEC 61034-2
Weather resistance	:	Excellent
UV Resistant	:	Yes
Flame retardent	:	IEC 60332 - 1
Mechanical,Abrasion,tear,notch,pressure resistant	:	Excellent
Oil & chemical resistant	:	Excellent

Nominal Cross Sectional Area	No of Cores	No of Strands	Diameter of Strand	Resistance at 20°C	Nominal insulation thickness	Nominal Sheath thickness	Nominal Overall Diameter
SQ MM			mm	ohms/km	mm	mm	mm
1.50	3	30	0.25	13.30	0.70	0.90	9.50
1.50	4	30	0.25	13.30	0.70	1.00	10.50
1.50	5	30	0.25	13.30	0.70	1.00	11.50
2.50	3	50	0.25	7.98	0.80	1.00	11.00
2.50	4	50	0.25	7.98	0.80	1.10	12.50
2.50	5	50	0.25	7.98	0.80	1.20	13.50
4.00	3	56	0.30	4.95	0.80	1.20	13.00
4.00	4	56	0.30	4.95	0.80	1.40	14.00
4.00	5	56	0.30	4.95	0.80	1.40	16.00

HO7RN-F CABLE



Application

CALTER' RUBBER Cables is a extreme weather, Oil & Grease, water resistant cable.
Applicable for industrial and outdoor hanging and & extreme flexibility is required. The cable is particularly suitable for heavy industry,Oil & chemical industries as the rubber is Oil & Grease resistant, Fire resistant, Halogen free also used in turbines,Marine & submersible pumps

Construction

Conductor : Electrolytic Flexible plain Copper Class - 5 according to IEC 60228
Insulation : special formulated thermoplastic rubber
Sheath : Special formulated thermoplastic rubber compound

Colour Coding

2 core - brown, blue
3 core - brown, blue, green/yellow
4 core - brown, blue, black, green/yellow
5 core - brown, blue, black, Black, green/yellow
Sheath Colour: Black

Techical Data

Halogen free	: IEC 60754-1
Rated Voltage Uo/U (Um)	: 450 / 750 V
Operating Temperature range	: -40 C to +90 C
Max. Conductor temperature in service	: 90 C
Short-circuit max. conductor temperature	: 200 C
Gases Corrosivity	: IEC 60754-2
Weather resistance	: Excellent
UV Resistant	: Yes
Flame retardent	: IEC 60332 - 1
Mechanical,Abrasion,tear,notch,pressure resistant	: Excellent
Oil & chemical resistant	: Excellent

Nominal Cross Sectional Area SQ MM	No of Cores	No of Strands	Diameter of Strand mm	Resistance at 20°C ohms/km	Nominal insulation thickness mm	Nominal Sheath thickness mm	Nominal Overall Diameter mm
1.50	2	30	0.25	13.30	0.80	1.20	9.10
1.50	3	30	0.25	13.30	0.80	1.30	9.80
1.50	4	30	0.25	13.30	0.80	1.40	10.85
1.50	5	30	0.25	13.30	0.80	1.50	11.90
2.50	3	50	0.25	7.98	0.90	1.35	10.85
2.50	4	50	0.25	7.98	0.90	1.40	11.65
2.50	5	50	0.25	7.98	0.90	1.50	12.80
4.00	3	56	0.30	4.95	1.00	1.35	12.55
4.00	4	56	0.30	4.95	1.00	1.40	13.45
4.00	5	56	0.30	4.95	1.00	1.50	16.50
6.00	3	84	0.30	3.30	1.10	1.40	13.50
6.00	4	84	0.30	3.30	1.10	1.45	16.00
6.00	5	84	0.30	3.30	1.10	1.60	18.00
10.00	4	140	0.30	1.91	1.20	2.00	21.30
16.00	4	226	0.30	1.21	1.40	2.20	24.20
25.00	4	354	0.30	0.780	1.60	2.40	28.00
35.00	4	494	0.30	0.554	1.80	2.60	33.00
50.00	4	396	0.40	0.386	1.80	3.20	38.00

HO7RN-F CABLE

Application

CALTER' RUBBER Cables is a extreme weather, Oil & Grease, water resistant cable. Applicable for industrial and outdoor hanging and & extreme flexibility is required. The cable is particulary suitable for heavy industry,Oil & chemical industries as the rubber is Oil & Grease resistant, Fire resistant, Halogen free also used in turbines,Marine & submersible pumps

Construction

Conductor : Electrolytic Flexible Copper Class - 5 according to IEC 60228 (BARE & TINNED)
Insulation : Special formulated thermoplastic rubber
Sheath : Special formulated thermoplastic rubber compound

Colour Coding

RED, YELLOW, BLUE, BLACK, GREEN, GREY, BROWN, SPECIAL COLOURS AND DUAL COLOURS WITH LINING AVAILABLE

Techical Data

Halogen free	:	IEC 60754-1
Rated Voltage Uo/U (Um)	:	600 / 1000 V
Operating Temperature range	:	-20 C to +90 C
Max. Conductor temperature in service	:	90 C
Short-circuit max. conductor temperature	:	200 C
Gases Corrosivity	:	IEC 60754-2
Weather resistance	:	Excellent
UV Resistant	:	Yes
Flame retardent	:	IEC 60332 - 1
Mechanical,Abrasion,tear,notch,pressure resistant	:	Excellent
Oil & chemical resistant	:	Excellent

Nominal Cross Sectional Area SQ MM	No of Strands	Diameter of Strand mm	Bare copper Resistance at 20°C ohms/km	Tinned copper Resistance at 20°C ohms/km	Nominal Overall Diameter mm	Nominal Weight (Kg/Km)
1.00	32	0.20	19.50	20.00	4.50	35.00
1.50	30	0.25	13.30	13.70	4.80	40.70
2.50	50	0.25	7.98	8.21	5.00	52.90
4.00	56	0.30	4.95	5.09	6.90	72.70
6.00	84	0.30	3.30	3.39	7.10	104.00
10.0	80	0.40	1.91	1.95	8.10	152.00
16.0	126	0.40	1.21	1.24	9.20	217.00
25.0	196	0.40	0.780	0.795	10.90	322.00
35.0	276	0.40	0.554	0.565	12.30	430.00
50.0	396	0.40	0.386	0.393	14.30	596.00
70.0	360	0.50	0.272	0.277	16.60	807.00
95.0	476	0.50	0.206	0.210	19.10	1054.00
120.0	608	0.50	0.161	0.164	21.20	1345.00
150.0	756	0.50	0.129	0.132	23.40	1648.00
185.0	925	0.50	0.106	0.108	25.60	1992.00
240.0	1221	0.50	0.0801	0.0817	28.60	2567.00

PVC & XLPE Insulated Low Voltage Control Cable

Control and Auxiliary Cables 600/1000 V as BS: 5467, BS: 6346, IEC: 60502(1) Manufacturing & Construction Details

Conductors

The conductors are bunched with seven wire strands, made from high conductivity plain annealed copper wires, aluminum wires and meet the requirements of BS: 6370 specification for conductors in insulated cables and cords, IEC: 228 specification and IS: 8130.

Insulation

According its particular standard specification, a cable will be insulated with either, XLPE (cross ¬linked polyethylene) or PVC (polyvinyl chloride) PVC is suitable for a maximum continuous operating temperature of 70° C & XLPE - 90° C.

Armour

The armour is single layer of galvanised steel wires. The direction lay of the armour is left hand and size of the armour - wire is specified in the cable standard specification.

Core Identification

Core identification is as follows unless otherwise specified

No. of cores	Core Identification
Two core	: Red & Black
Three core	: Red Yellow & Blue
Four core	: Red Yellow Blue & Black

Auxiliary Cables

Five and more white cores with number printing in black.

Fillers

Wherever necessary, non-hygroscopic polypropylene fillers are applied in the interstices of multi core cables in PVC insulated unarmored control and auxiliary cables, below the outer sheath.
during laying up. A PVC inner covering is included

Bedding

The bedding normally consist of a layer extruded PVC.

Finish

The standard finish of all cables consists of an extruded black PVC over-sheath, the external surface of which is embossed with the appropriate legend. The over sheath PVC grade is usually Type TM 1 or Type 9 or BS: 7655; although other grades, e.g. Type 85C Hard grade St2 for cable conforming to IEC: 60502 standard PVC can be supplied when specified.

PVC is intrinsically flame retardant and all cables described in this catalogue conform to IEC: 332 Part 1.
On special request, electric cables can be tested under fire conditions. PVC with high oxygen index, specially formulated for enhanced fire performance can be supplied if required.

PVC Insulated Power & Copper Control Cable

Application

The power cables are used for underground as well as over head transmission of power in power plants, industries, projects and all other electrical installations.

Features

Manufactured from bright annealed 99.97% pure bare copper and aluminum conductors .Insulated with PVC compound Taped/extruded inner sheath Round steel wire/flat galvanised steel strip armored. Inner and outer sheaths can be PVC, HR PVC, FRLS, HR-FRLS or FR depending upon the application and requirement of customers.

Specifications

Working Voltage : Up to 1100 V.
Temperature Range : -15° C to + 70° C or +85° C in HR PVC.
Power Cable Sizes : 1.50 sq mm to 400.00 sq mm in 2, 3, 31/2&4 core
Copper Control Cable Sizes : 1.50, 2.50 sq mm up to 24 cores.
Color Code
2 core - red & black
3 core - red, yellow, blue
3 1/2 core - red, yellow, blue, & black (for neutral)
4 core - red, yellow, blue & black
5 core - red, yellow, blue, black & gray
6 core & above - adjacent cores are blue for references and ye llow for direction in each lay black outer sheath.
Specification : IS: 1554 (Part 1)
Packing : 500/1000 meters on drums

XLPE INSULATED POWER & COPPER CONTROL CABLE

Application

The XLPE (Cross Link Poly Ethylene) power cables are used for underground as well as overhead transmission of power in power plants, industries, projects and all other electrical installations.
temperature 90° C Short circuit temperature 250° C

Features

Manufactured from bright annealed 99.97% pure bare copper & aluminum conductors.
Insulated with XLPE compound.
Taped extruded inner sheath.
Round steel wire/flat galvanised steel strip armored.
Outer sheaths can be PVC, HR PVC, FRLS or FR depending upon the application and requirement of customers.

Technical advantages of XLPE Insulation

Higher current rating Higher short circuit rating (approx. 1.2 times that of PVC) Thermosetting in nature Higher insulation resistance - 1000 times more than PVC cables Higher resistance to moisture Better resistance to surge currents Low dielectric losses Better resistance to chemicals and corrosion Longer service life Comparatively higher cable operating

Specifications

Working Voltage : Up to 1100 V.
Temperature Range : -15° C to +90° C
Power Cable Sizes : 1.50 sq mm to 400.00 sq mm in 2, 3, 3 1/2 & 4 core
Copper Control Cable Sizes : 1.50, 2.50 sq mm up to 24 cores.
Color Code
2 core - red & black
3 core - red, yellow, blue
3 1/2 core - red, yellow, blue, & black (for neutral)
4 core - red, yellow, blue & black
5 core - red, yellow, blue, black & grey
6 core & above - Adjacent cores are blue for reference and yellow for direction in each lay black outer sheath.
Specification : IS: 7098 (Part 1)
Packing : 500/1000 meters on drums

Crimping Tools

India's 1st CALTER® TOOLS

Genuine Service Centre

- Repairs
- Service Contracts
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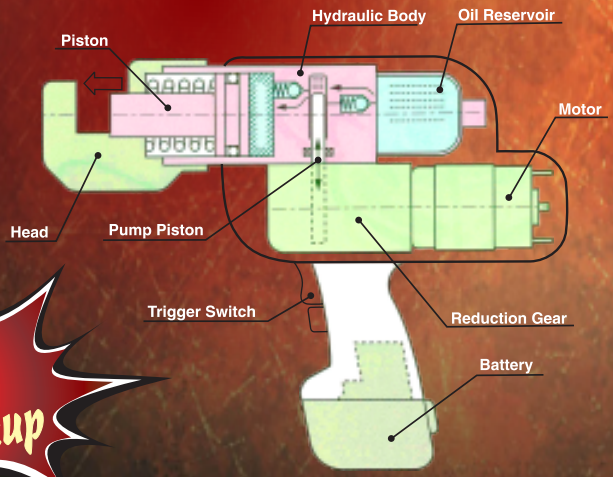


Free Tool Checkup

All makes / All types

Contact No. +91-22-61532425 email: tools@calter.com

Mechanical Multi Crimping Tool CMMT 007

Features

Ratchet mechanism
Release after perfect crimp
Quick interchangeable dies
Storage systems in handle

Specifications

Range
0.5 to 6 sq mm for insulated cable lugs
0.5 to 10 sq mm for non-insulated cable lugs
0.5 to 10 sq mm for end sleeves
Lenth: 220 mm
Weight: 600 g
Crimping Profile: Indent/Oval/Trapezold crimp

Mechanical Hand Crimping Tool CMNI 105006

Features

Ratchet mechanism
Compact, pocket-size design
Ergonomic handles for low effort indent crimping
Ratchet action to ensure full crimp cycle
Connector & non-insulated terminal

Specifications

Range: 1.5 to 6 sq mm for non-insulated terminals
Lenth: 198 mm
Weight: 350 g
Crimping Profile: Indent crimp

Mechanical Hand Crimping Tool CMNI 005016

Features

Ratchet mechanism
Professional crimping tool for reliable performance
Ergonomic handles for low effort indent crimping
Ratchet action ensures full crimp cycle with safety release
Minimum set of 80,000 cycles

Specifications

Range: 0.5 to 16 sq mm for non- insulated terminals
Length: 225 mm
Weight: 540 g
Crimping profile: Indent crimp

Mechanical Hand Crimping Tool CMI 152546

Features

Ratchet Mechanism
The dies are color marked for inspection and correct use of the tool.
Ergonomic handles allow two-hand operation for perfect crimp.
Low effort oval crimping.
Ratchet action ensures full crimp cycles.

Specifications

Range: 1.5, 2.5, 4-6 sq mm for insulated terminals
Length: 225 mm.
Weight: 540 g
Crimping profile: Oval crimp

Mechanical Hand Crimping Tool CMOB 154863

Features

Compact, pocket-size design
Ergonomic handles for low effort roll crimping
Ratchet action ensures full crimp cycles with safety release.
Minimum 80,000 cycles
Factory set with a precise eccentric cam adjustment function

Specifications

Range: 1.5, 4.8, 6.3 sq mm for open barrel tab terminals
Length: 210 mm
Weight: 600 g
Crimping profile: Roll crimp

Mechanical Hand Crimping Tool CMES 050006

Features

Compact, pocket-size design
Ergonomic handles for loe effort trapezoid crimping
Ratchet action ensures full crimp cycles with safety release.
Minimum 80000 cycles
Factory set with a precise eccentric cam adjustment function

Specifications

Range: 0.5- 6 sq mm for end sleeves
Length: 215 mm
Weight: 470 g
Crimping profile: Trapezoid crimp

Mechanical Hand Crimping Tool CM 4 ES - 050006

Features

Self adjusting tool with single die to crimp all terminals within its range
Side entry for easy access within confined spaces
Compact, pocket-size design
Ratchet action ensures full crimp cycle with safety release
Factory set with a precise eccentric cam adjustment function.

Specifications

Range: 0.5 - 6.0 mm for end sleeves
Length: 180 mm
Weight: 360 g
Crimping profile: Square crimp

Mechanical Hand Crimping Tool CM 6 ES - 050006

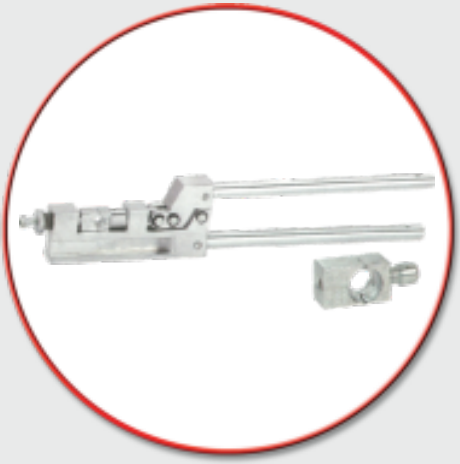
Features

Self adjusting tool with single die to crimp all terminals within its range
Side entry for easy access within confined spaces
Compact, pocket-size design
Ratchet action ensures full crimp cycle with safety release
Factory set with a precise eccentric cam adjustment function

Specifications

Range: 0.5 - 6.0 mm for end sleeves
Length: 180 mm
Weight: 360 g
Crimping profile: Hex crimp

Mechanical Crimping Tool (CBRD-010095)



Features

Changeable dies
Precision crimps
For insulated / non insulated cable terminals

Specifications

Dies: 10 mm2 to 95 mm2 (7 Sets)
Weight: 5.5 kg
Packing: Paper Box
Crimping Profile: Hexagonal

Mechanical Crimping Tool (CBRD-010185)

Features

Changeable dies
Precision crimps
For insulated / non insulated cable terminals
With extra handles for higher leverage

Specifications

Dies: 10 mm2 to 185 mm2 (10 Sets)
Weight: 7.5 kg
Packing: Paper Box
Crimping Profile: Hexagonal

Mechanical Crimping Tool (CBRD-010240) - Dieless

Features

Adjustable dies / Precision crimps
For non insulated cable terminals
With extendable handles

Specifications

Adjustable screw to suit terminal size
Weight: 3.5 kg
Packing: Paper box
Crimping profile: Indent crimp

Mechanical Crimping Tool (CMLT-010185)

Features

Changeable dies / Precision crimps
For insulated / non insulated cable terminals

Specifications

Dies: 10 mm2 to 185 mm2 (10 Sets)
Weight: 4.8 kg
Packing: Paper box
Crimping profile: Hexagonal

Mechanical Crimping Tool (CMLT-025400)

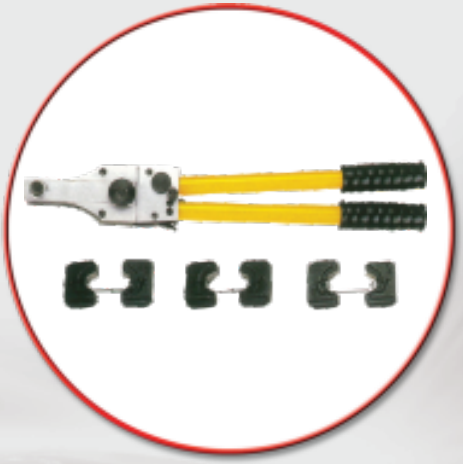
Features

Changeable dies / Precision crimps
For insulated / Non insulated cable terminals
Extra handles for higher leverage

Specifications

Dies: 10 mm2 to 185 mm2 (10 Sets)
Weight: 4.8 kg
Packing: Steel case
Crimping Profile: Hexagonal

Mechanical Crimping Tool (CMGP-016240)



Features

Gear powered mechanism
Changeable dies / Precision crimps
For insulated / Non insulated cable terminals

Specifications

Dies: 16 mm2 to 240 mm2 (10 Sets)
Weight: 4.8 kg
Packing: Steel case
Crimping Profile: Hexagonal

Mechanical Crimping Tool (CMGP-025400)

Features

Gear powered mechanism
Changeable dies / Precision crimps
For insulated / Non insulated cable terminals

Specifications

Dies 25 mm2 to 400 mm2 (11Sets)
Weight: 5.2 kg
Packing: Steel case
Crimping profile: Hexagonal

Mechanical Amourd Cable Cutter (CARC-075630)

Features

Heavy-duty ratchet movement.
Telescopic handles for higher leverage.
Suitable for LT/HT armored cable.
Specially designed forged blade.

Specifications

Range: Armored cable up to 75mm diameter.
Length: approx-450-600mm.
Weight: approx-6.500 Kg
Don't cut mild steel or steel rod

Mechanical Hand Crimping Tool CMRD 006050

Features

Powerful Mechanical Crimping
Rotatable dies for selection of proper size
Eliminates loss of dies

Specifications

Range: 6 to 50 sq mm for Cu/Al terminals
Length: 400 mm
Weight: 1.4 Kg
Crimping profile: Hexagonal

Mechanical Hand Crimping Tool CMRD 010120

Features

Powerful Mechanical Crimping
Rotatable dies for selection of proper size
Eliminates loss of dies

Specifications

Range: 10 to 120 sq mm for Cu/Al terminals
Length: 650 mm
Weight: 3.8 Kg
Crimping profile: Hexagonal

Mechanical Hand Crimping Tool CMLH 010150

Features

Flip top crimp head
Powerful mechanical crimping
350 degree rotatable head
Suitable for LT/HT joints
Telescopic handles for higher leverage

Specifications

Range: 10-150 mm2 Cu/Al terminals/connectors
Length: 600 mm
Weight: 2.8 Kg
Crimping profile: Hexagonal

Mechanical Hand Crimping Tool CMLH 025300

Features

Flip top crimp head
Powerful mechanical crimping
350 degree rotatable head
Suitable for LT/HT joints
Telescopic handles for higher leverage

Specifications

Range: 25 to 300 mm2 for Cu/Al terminals/connectors
Length: 700 mm
Weight: 6 Kg
Crimping profile: Hexagonal

Mechanical Hand Cutters
CCR 032240
Ratchet Cable Cutter

Features

Heavy-duty ratchet movement
Simple, one hand operation
Compact, light weight
Specially designed blade for smooth cutting

Specifications

Range: Up to 240 sq mm (32 mm dia) for Cu/Al terminals
Length: 260 mm
Weight: 560 g

Not for cutting steel or steel wire armoured cables.

Mechanical Hand Cutters
CCR 052400
Ratchet Cable Cutter

Features

Heavy-duty ratchet movement
Simple, one hand operation
Compact, light weight
Specially designed blade for smooth cutting

Specifications

Range: Up to 400 sq mm (52 mm dia) for Cu/Al terminals
Length: 290 mm
Weight: 750 g

Not for cutting steel or steel wire armoured cables.

Mechanical Hand Cutters
CCLH 025120, CCLH 032300, CCLH 055500

Features

Compact and light weight
Long handles higher leverage
For cutting Cu/Al unarmoured cables

Specifications

Model	Range	Length	Weight
CCLH 025120	up to 125 sq mm	300 mm	700 g
CCLH 032300	up to 250 sq mm	530 mm	1.2 Kg
CCLH 055500	up to 500 sq mm	770 mm	3 Kg

Not for cutting steel or steel wire armoured cables.

Mechanical Hand Cutters
CCLH 032240 - ST

Features

Heavy-duty, easy movement
Compact and light weight
Telescopic handles for higher leverage

Specifications

Range: Up to 240 sq mm (32 mm dia) for Cu/Al cables
Length: up to 530 mm
Weight: 2.3 Kg

Not for cutting steel or steel wire armoured cables.

Cable Knife
CKN-050180

Features

High quality carbon steel for long life
Straight shape with firm grip handle
Transparent protective shell
Suitable for removing insulation of sector and round cable cores

Specifications

Blade lenght: 50 mm
Total length: 180 mm
Weight: 75 g

Heavy Duty Cable stripper
CSC - 006025

Features

Suitable for stripping insulation
Stripping thickness can be adjusted

Specifications

Suitable for cable dia 6mm-25mm
Strippable thickness: Up to 5mm
Size: 140x42x38 mm
Weight: 0.1 kg

Cable Stripper for RG Cable
CSRG 585962

Features

Compact light weight
Packet size design
Specially for RG cables

Specifications

Range: RG 58, 59, 62 - 3 & 4 core
Length: 100 mm
Weight: 40 g

Cable Stripper & Cutter for Special Cables
CSC-050008

Features

Compact light weight
Packet size design
Specially for optic fiber cables

Specifications

Range: 0.2 to 8 mm, UTP & 8TP
Length: 200 mm
Weight: 0.30kg

Cable Cutter & Stripper
CSC 008006

Features

Duck-mouth style automatic cutter and stripper
For stripping PVC insulation of wires
0.08 - 6 mm dia
Plastic jaws and adjustable length
Shock-resistant fiber glass plastic body

Specifications

Stripping range: 0.8-6 mm diameter
Length: 170 mm
Weight: 20 g

Ratchet Wheel Type Stripper
CPG 025100

Features

For stripping of cables over 25 mm dia
Various insulation layers can be stripped
Suitable for vertical and round cutting
Cutting depth adjustable

Specifications

Length: 170 mm
Weight: 15 g

Cable Preparation Tool CPT 015040

Features

For stripping XLPE insulation/semi conductive screen of HV cable cores - 15 to 40 mm dia
Specially designed adjustable blade for different stripping thickness
Conductor untouched by blade while stripping
Sharpening and replacement of blade possible

Specifications

Length: 245 mm Weight: 630 g

Cable Preparation Tool CPT 030065

Features

For stripping XLPE insulation/semi conductive screen of HV cable cores - 30 to 65 mm dia
Specially designed adjustable blade for different stripping thickness
Conductor untouched by blade while stripping
Sharpening and replacement of blade possible

Specifications

Length: 290 mm Weight: 830 g

Cable Preparation Tool CPT 040090

Features

For stripping XLPE insulation/semi conductive screen of HV cable cores - 40 to 90 mm dia
Specially designed adjustable blade for different stripping thickness
Conductor untouched by blade while stripping
Sharpening and replacement of blade possible

Specifications

Length: 510 mm Weight: 2.5 kg

Cable Polishing Machine
CCPM - 113366

Features

For polishing HT cable core insulation
Polishing belt fits circular cables arc closely
Eliminates laborious manual polishimg
Specification

Specifications

Size of polishing belt - 30mm x 535mm.
Motor: 220V AC
Total weight: 2.1 Kg
Supplied with belt: 1pc each of 40, 60, 80,100 & 120 grade

Armored Cable Cutter
CARC-120220

Features

Suitable for cutting steel wire armored cable up to 120 mm diameter.
Dual bearing support for increased durability of blade.
Powerful motor designed for on-site job application.
Control knob for regulating speed of blade for various applications.

Specifications

Cutting speed 30-75 mtr / min
Tool length 550 mm.
Tool Weight 6.350 Kg
Packing Carrying case

Electric Harnessing Machine
CEHM 005016

Features

An ideal electrical crimping machine
For insulated, non-insulated terminals and end sleeves
High speed operation with precision crimps
Table mounted; supplied with foot switch
Supplied with 7sets of interchangeable crimping dies
Very useful for large quantity terminal crimping

Specifications

Range 0.5 to 16 sq mm
Cable Cutting: Up to 7 mm dia
Output: 1.7 KN (170 kg)
Crimping Cycle: 1.5 to 2 secs
Power Supply: AC 240 V
Power Consumption: 90 W
Dimensions: 325 x 265 x 150 mm
Weight: 12 kg

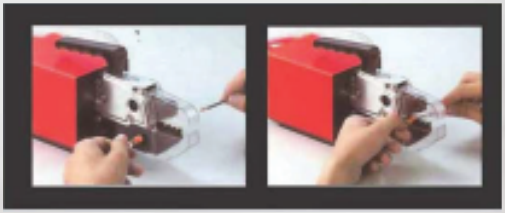
Pneumatic Harnessing Machine
CNHM 005010

Features

An ideal Pneumatic crimping machine
For insulated, non-insulated terminals and end sleeves
High speed and quality in crimping
Table mounted; supplied with foot switch
Supplied with 4 sets of interchangeable crimping dies
Very useful for large quantity terminal crimping

Specifications

Range: 0.5 to 10sq mm
Output force - 14kn
Operating air pressure: 0.4 - 1MPa (4 kg/cm2-10 kg/cm2)
Crimping cycle: 1.5 to 2 secs
Dimensions: 260 x 120 x 140mm
Weight: 4 kg



Battery Powered Crimping Tool (Mini) CBM-016240

Features

Light weight & slim design.
Flip-on type crimp-head
180 degree rotation.
Built-in safety valve for high pressure.
Auto-Retract

Specifications

Crimping force 50KN, (5ton)
Crimps per charge -170 no. @Cu-150mm2
Crimping cycle 3s-6s depend on size of terminal.
Battery: 3.0Ah 18v Li-ion
Charging time of battery 1/2 hours.

Accessories

Hexagonal dies: 16 to 240 mm2
Battery: 1pc, charger 1pc
Packing: steel case

Hand Hydraulic Crimping Tool (Mini) CHM 010150

Features

Light waight and slim design
Flip-on head provides easy entry and removal of terminal
Spring-loaded pump handles allow single hand operation
Special tool for LT joints and panel boards
Accepts BEKU type dies (square type)

Specifications

Range: 10-150 mm2
Crimp force: 5 ton
Length: 375mm
Weight: 2.2 kg
Packing: Plastic case
Crimping profile: Hexagonal

Multi Functional Battery Tool
CBUN 016300 (6 Ton)

Features

For crimping, cutting & hole punching
Flip-top style head, 360 degree rotation
2-stage hydraulic system
Auto-Retract

Specifications

Range: Up to 300 sq mm for Cu/Al
Crimping force: 60 KN (6ton)
Cable Cutting: Up to 40 mm dia
Hole Punching: 22.5 - 61.5 mm dia
Crimp Profile: Hexagonal
Battery: 18V, 3.0 Ah Li-ion
Charge Time: 2-2.5 hrs
Weight: 4.5 kg
Packing: Metal case

Supplied with
Battery: 1 pc
Charger: 1pc
Adapter for Crimping
Crimping Dies: 16-300 sq mm

Cable Cutting Blade: 1 pair

Adapter for Punching
Round Punches: 22.5, 28.3, 34.6, 43.2, 49.6, 61.5 mm
Mild Steel: thickness upto 3 mm
Stainless Steel: thickness upto 2 mm

Multi Futional Hand Hydraulic Tool CHUN 016300 (6 Ton)

Features

For crimping, cutting & hole punching
Flip-top style head, 360 degree rotation
2-stage hydraulic system
Manual retraction possible

Specifications

Range: Up to 300 sq mm for Cu/Al
Crimping force: 60 KN (6ton)
Cable Cutting: Up to 40 mm dia
Hole Punching: 22.5 - 61.5 mm dia
Crimp Profile: Hexagonal
Weight: 5 kg
Packing: Metal case

Supplied with
Crimping adapter: 1 pc
Crimping Dies: 16-300 sq mm
Cable Cutting Blade: 1 set
Punching adapter: 1 pc
Round Punches: 22.5, 28.3, 34.6, 43.2, 49.6, 61.5 mm
Mild Steel: thickness upto 3 mm
Stainless Steel: thickness upto 2 mm

Battery Crimping Tools
CBE 016400 (6 Ton)

Features

Flip-top style head, 340 degree rotation
2-stage hydraulic system
Auto-Retract

Specifications

Crimping Force: 60 KN (6 ton)
Crimping Cycle: 3 to 6 secs
Battery: 18V.3.0Ah Li-ion
Battery Capacity: 200 crimps @150 mm2 Cu
Charge Time: 1/2 hrs
Weight: 4.5 kg

Supplied with
Battery/Charger
Crimping Dies: 16-400 mm2

Hand Hydrauli Tools
CHE 016400 (6 Ton)

Features

Flip-top style head, 340degree rotation
Dual speed action
Built-in safty valve for high pressure
Manual retraction knob

Specifications

Range: 16 to 400 sq mm for Cu/Al
Crimping Force: 60 KN (6 ton)
Stroke: 18 mm
Crimping Cycle: 3 to 6 secs
Crimping Profile: Hexagonal
Weight: 3.5 kg
Packing: Metal case

Supplied with
Crimping Dies: 16-400 mm2

Battery Powered Cable Cutter CBC 045400 (6 Ton)

Features

Flip-top style head, 340degree rotation
2-stage hydraulic system
Auto-Retract

Specifications

Cutting force: 60 KN (6ton)
Stroke: 50 mm
Cutting capacity: ACSR, Cu/Al of 45 mm dia
Cuts / charge: 120 cuts
Cutting cycle: 8 to 20 secs
Battery voltage: 18V, 3.0Ah Li-ion
Charge time: 1/2 hrs
Weight: 6 kg
Packing: Metal case

Supplied with
Battery: 1 pc
Charger: 1 pc

Hydraulic Cable Cutter CHC 045400 (6 Ton)

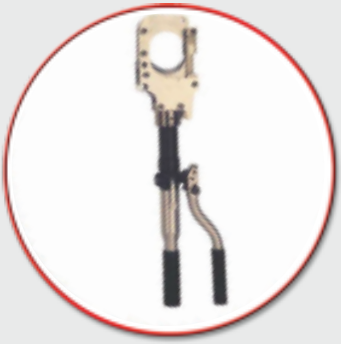
Features

Flip-top style head, 340degree rotation
2-stage hydraulic system
Manual retraction possible

Specifications

Cutting Force: 60 KN (6ton)
Stroke: 50 mm
Cutting capacity: ACSR, Cu/Al of 45 mm dia
Cutting Cycle: 8 to 20 secs
Length: 580 mm
Weight: 3.5 kg
Packing: Metal case

Hydraulic Cable Cutter CHC 085800 (6 Ton)



Features

Flip-top style head, 340 degree rotation
2-stage hydraulic system
Manual retraction possible

Specifications

Cutting Force: 60 kN (6ton)
Stroke: 90 mm
Cutting Capacity: Cu/Al of 85 mm dia
Cutting Cycle: 8 to 20 secs
Length: 700 mm
Weight: 7 kg
Packing: Metal case

Not for cutting steel or steel wire armoured cables

Remote Cutting Head CRCH 045400 (6 Ton)

Specifications

Cutting capacity: ACSR, Cu/Al of 45 mm dia
Cutting force: 60 kN (6ton)
Stroke: 52 mm
Length: 350 mm
Weight: 4.2 kg

Not for cutting steel or steel wire armoured cables

Scissor Type Cutting Head CRCH 050500 (12 ton)

Specifications

Cutting capacity: Cu/Al up to 50 mm dia telephone cable
Cutting Force: 120 kN (12ton)
Stroke: 50 mm
Length: 350 mm
Weight: 3.5 kg

Not for cutting steel or steel wire armoured cables

Battery Operated Tools
CBE-050400 (12 Ton)

Features

C-type head, 360 degree rotation
2-stage hydraulic system
Auto-Retract

Specifications

Crimping range: 50 to 400 sq mm for Al/Cu
Crimping force: 130 kN (12ton)
Jaw opening: 42 mm
Crimping Cycle: 8 to 14 secs
Crimping Profile: Hexagonal
Crimps / Charge: 150 crimp @ 150 sq mm
Battery: 18V, 3.0Ah Li-ion
Charge Time: 1/2 hrs
Weight: 6.8 kg
Packing: Metal case

Supplied with
Battery: 1 pc
Charger: 1 pc
Crimping Dies: 50-400 sq mm

Hand Hydraulic Tools
CHE-050400 (12 Ton)

Features

C-type head, 340degree rotation
2-stage hydraulic system
Manual retraction knob

Specifications

Crimping range: 50 to 400 sq mm for Al/Cu
Crimping force: 130 KN
Jaw opening: 42 mm
Crimping cycle: 8 to 14 secs
Crimping profile: Hexagonal
Weight: 6.8 kg
Packing: Metal case

Supplied with
Crimping dies: 50-400 sq mm

Foot pump with Split Unit CFYQ-016400 Trolly Mounted

Features

Flap type head
2-stage hydraulic system
Manual retraction button

Specifications

Crimping range: 16 to 400 sq mm for Al/Cu
Crimping force: 130 kN
Crimping stroke: 22 mm
Crimping profile: Hexagonal
Weight: 15kg
Packing: metal case

Supplied with dies

16,25,35,50,70,95,120,
150,185,240,300,400 mm^2

Hydraulic foot pump & split unit CFYQ-050630

Features

German type head
2-stage hydraulic system
Manual retraction button

Specifications

Crimping range: 25 to 630 sq mm for Al/Cu
Crimping force: 250 kN
Crimping stroke: 25 mm
Crimping profile: Hexagonal
Weight: 17kg
Packing: metal case

Supplied with dies

300,400,500,630 mm^2

Remote Crimping Head CRH 035300 (6 Ton)

Features

Flie-type open head
Compact, light weight design
Suitable for connecting O.H. conductors
Operated by separate hydraulic pump

Specifications

Crimping range: Up to 300 sq mm
Crimping force: 60 kN (6ton)
Crimping profile: Hexagonal
Weight: 3.5 kg
Packing: Metal case

Remote Crimping Head CRH 050400 (12 Ton)

Features

C-type open head
Compact, light weight design
Suitable for connecting O.H. conductors
Operated by separate hydraulic pump

Specifications

Range: 50 to 400 sq mm
Crimping force: 130 kN (12ton)
Crimping profile: Hexagonal
Weight: 5 kg
Packing: Metal case

Hydraulic Hand Pump CHP IND 700

Features

Ideal for remote crimping, cutting and punching
Compact and lightweight
Two stage pump for rapid advance of dies
Strong knob type release valve
Supplied with 2mtr high pressure hose and coupler plug

Specifications

Maximum output pressure: 700 kg/cm2 (700 bars)
Oil displacement low pressure: 13 cc
Oil displacement high pressure: 2.3 cc
Oil capacity: 1800 cc
Lenght: 510 mm
Weight: 11 kg

Hydraulic Hand Pump CHP IMP 700

Features

Ideal for remote crimping, cutting and punching
Compact and lightweight
Two stage pump for rapid advance of dies
Knob type release valve
Supplied with 2mtr high pressure hose and coupler plug

Specifications

Maximum output pressure: 700 kg/cm2 (700 bars)
Oil displacement low pressure: 15 cc
Oil displacement high pressure: 2.8 cc
Oil capacity: 1600 cc
Lenght: 495 mm
Weight: 8.5 kg

Hydraulic Foot Pump
CFP IND 700

Features

Foot operated
Two stage pump for rapid advance of dies
Strong knob type release valve
Sefety valve to prevent overload
Supplied with 2 mtr high pressure hose and coupler

Specifications

Maximum output pressure: 700 kg (700 bars)
Oil displacement low pressure: 15 cc
Oil displacement high pressure: 2.8 cc
Oil capacity: 1500 cc
Lenght: 450 mm
Weight: 10 kg

Hydraulic Foot Pump
CFP - GRM700

Features

Dual speed pressure (high/low)
External pressure adjustment from 6k - 10k psi
Foot operated release valve
Sefety valve to prevent overload
Supplied with 2 m high pressure hose and coupler

Specifications

Maximum Output Pressure: 10000 psi (700 bars)
Oil Displacement Low Pressure: 15 cc
Oil Displacement High Pressure: 2.8 cc
Oil Capacity: 1500 cc
Lenght: 500 m
Weight: 11 kg

Heavy Duty Crimping Head CJ 25-R 150630 (25 Ton)

Features

Lightweight design
Split Hydraulic crimping head
Side coupler
Operates with any hydraulic pump
Suitable for all types of cable joints

Specifications

Crimping range: 150 to 630 sq mm for Cu/Al
Crimping force: 250 KN
Stroke: 26 mm
Oil capacity: 85 cc
Crimping profile: Hex crimp
Weight: 7 kg
Packing: Metal case

Heavy Duty Crimping Head CJ 25-G 150630 (25 Ton)

Features

German design Ultra lightweight
Pin-type head easy to replase dise
Quick cupler with base style
Operates with any hydraulic pump
Suitable for all types of cable joints

Specifications

Crimping reange: 150 to 630 sq mm for Cu/Al
Crimping force: 250 KN
Stroke: 26 mm
Oil capacity: 80 cc
Crimping profile: Hexagonal
Weight: 5.5 kg
Packing: Metal case / canvas bag

Heavy Duty Crimping Head CJ 45-G 401000 (45 Ton)

Features

German design Ultra lightweight
Pin-type head easy to replase dise
Quick cupler with side style
Operates with any hydraulic pump
Suitable for all types of cable joints

Specifications

Crimping reange: 400 to 1000 sq mm for Cu/Al
Crimping force: 450 kN (45ton)
Stroke: 24 mm
Oil capacity: 150 cc
Weight: 10.5 kg
Packing: Metal case / canvas bag

Heavy Duty Crimping Head CJ 50-F 401000 (45 Ton)

Features

Flip-on type table base, lightwait design
Split Hydraulic crimping head
Side coupler
Operates with any hydraulic pump
Specially for transformer cable joints

Specifications

Range: 400 to 1000 sq mm for Cu/Al
Crimping Force: 500 KN
Stroke: 25 mm
Oil Capacity: 170 cc
Crimping Profile: Hex crimp
Weight: 20 kg
Packing: Metal case

Electric Pump Mini
CEPP 220700

Features

Compact, portable design suitable for heavy-duty crimping
Two stage pumping
Push button advance and retraction
Oprate with single hose only
Wired remote control
Supplied with high pressure hose

Specifications

Pressure: 700 kg/cm2 (700 bars)
Rated output: 450W
Motor voltage: 220V/380V
Weight: 15 kg

Electric Pump
CEPP 220700 (25 Ton)

Features

Compact, portable design suitable for heavy-duty crimping
Two stage pumping
Push button advance and retraction
Oprate with single hose only
Visible oil level
Wired remote control
Supplied with high pressure hose

Specifications

Pressure: 700 kg/cm2 (700 bars)
Motor voltage: 220V/380V
Weight: 30 kg

Transmission Engine Driven Pump CTPP - ENG 700

Features

Double acting engine driven hydraulic pump
Auto operation for automatic compression
Suitable for double acting presses for transmission line use
Builds pressure up to 700 bars
Push button control of fluid flow
Smooth compression without pulsation
Remotr control operation with manual override

Specifications

Reservoir Capacity: 10 ltr
Oil Delivery at 0-22 bars: 7.5 ltr/min
Oil Delivery at 22-700 bars: 1.2 ltr/min
Weight: 58 kg

Note: Hydraulic hose sold separately.

High Pressure Crimping Jack CTCJ 100 Ton

Features

Compression head for full tension, transmission and substation connection
External double acting 700 bar hydraulic pump required
Dies, exclusive to this model, are sold separately

Specifications

Stroke: 23 mm
Oil volume required: 310 cc
Capacity: 100 Ton
Weight: 33 kg

Note: Dies are sold separately.

Bus Bar Cutter
CBBC 012200

Features

Compact design for anywhere use
Ideal for cutting copper and aluminum bus bars
Operates with hand pump or electric pump
Precise, scrap-less cutting using low energy

Specifications

Max thickness: Up to 12 mm
Sheet width: Up to 200 mm
Cutting froce: 20ton
Height: 430 mm
Weight: 32.5 kg

Bus Bar Punch
CBBP 010020

Features

Compact design for anywhere use
Ideal for punching copper and aluminum up to 12 mm thickness
Operates with hand pump or electric pump

Specifications

Max thickness: 12 mm
Punching capacity: Up to 20.5 mm dia holes
Weight: 30 kg

Supply with

Round punches: 3/8 (10.5 dia), (13.8 dia), 5/8 (17 dia), 3/4 (20.5 dia)

Bus Bar Bender
CBBB 012200

Features

Compact design for anywhere use
Ideal for bending Cu/Al up to 90 degrees
Indicator for 45 degree/90 degree bend
Operates with hand pump or electric pump

Specifications

Max thickness: Up to 12 mm
Sheet width: Up to 200 mm
Bending force: 20 ton
Height: 370 mm
Weight: 25 kg

Multi functional bus bar unite
CEMF 012150

3in1
- CUTTING
- PUNCHING
- BENDING

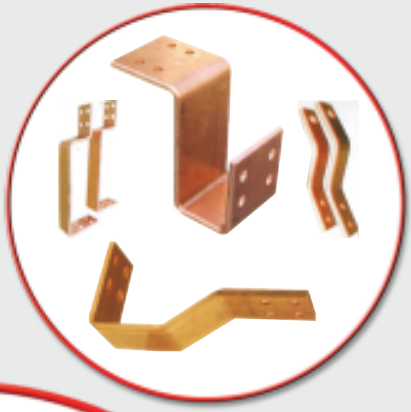
Features

Three station operation - compact power pack
For cutting, punching and bending for Cu/Al bus bar
Dual speed action - fast/slow

Specifications

Cutting width of bus bar: 150 mm max
Punching thickness of bus bar: 12 mm max
Bending: Up to 90 degree

Supplied with
Cutting tool
Bending tool
Punching tool with dies as below
3/8" (10.5 dia), ½" (13.8 dia),
5/8" (17 dia), 3/4" (20.5 dia)



Cutting

Punching

Bending

Hydraulic Hole Punching Tool

Round
Hole Punching Tool

Square
Hole Punching Tool

Hand Hydrauli Tools
CHCT-010300

Features

C-type open head
Compact, light weight design
Built-in safty valve for high pressure
Manual retraction knob

Specifications

Range: 10 to 300 sq mm for Cu/Al
Crimping Force:100 KN (10 ton)
Stroke: 22 mm
Crimping Profile: Hexagonal
Weight: 3.5 kg
Packing: Plastic case

Supplied with
Crimping Dies: 10-300 sq mm2

Manual Hole Punching Tool
CMSB 022060

Features

Heavy duty punches up to 3 mm thickness
For mild steel & stainless steel sheets
High abrasion resistance for perfect alignment

Specifications

Round Hole: Up to 61.5 mm dia
Weight: 5.5 kg
Packing: Plastic case

Supplied with
Round Punch: 22.5, 28.3, 34.6, 43.2, 49.6, 61.5 mm dia
Draw stud & spacer

Hydraulicl Hole Punching Tool
CHSB 022060 (15 Ton)

Features

Heavy duty punches up to 3 mm thickness
For mild steel & stainless steel sheets
High abrasion resistance for fiberglass ans plastic
Self centering punch for perfect alignment

Specifications

Punching force: 15ton
Stroke: 25 mm
Weight: 16.5 kg
Packing: Metal case

Supplied with
Round punch: 22.5, 28.3, 34.6, 43.2, 49.6, 61.5 mm dia
Squre punch: 32x32 mm
Draw stud & spacer

Hydraulic hole punching tool (Mini)
CHSB-225615 – (6 Ton)

Features

Heavy duty punches up to 3mm thickness.
Lightweight design for portability & fast operation.
Simplify access to work in cramped place.
Self centering punch for perfect alignment.

Specifications

Punching force: 6 ton
Stroke: 22 mm
Weight: 2.8 Kg
Packing: Plastic box

Supplied with
Round Punches & dies -22.5, 28.3, 34.6, 43.2, 49.6, 61.5 mm diameter.
Draw stud: 7/16 x 3/4 inches -- 1 pc
Draw stud: ¾ x ¾ — inches -- 1 pc
Spacer : 1 pc

Hydraulic Pipe Bender
CHPB 010075

Features

Sutable for water pipes, carbon steel pipes, thick wall conduit pipe
Up to 90 degree bending

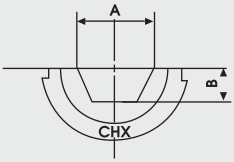
Specifications

Output: 18ton
Diameter of pipe: Up to 75 mm
Thickness of pipe: Up to 5 mm
Weight: 125 kg

Supplied with
Pipe Moulds: ½", ¾", 1, 1.¼, 1½, 2½", 3"

Compression Dies

Compression Dies U Type (12 Ton)
Haxagonal dies for copper/aluminium terminals



Dia No.	A	B	C
Cu 10	6.2	2.2	9
Cu16	7.1	2.6	14
Cu 25	8.8	3.2	14
Cu 35	10.6	3.8	14
Cu 50	12.4	4.7	16
Cu 70	14.6	5.7	18
Cu 95	17.4	6.3	16
Cu 120	19.4	7.1	14
Cu 150	21.2	7.8	13
Cu 185	24	8.6	12
Cu 240	26.5	9.7	10
Cu 300	30	11	9
Cu 400	34.8	12.8	9

Compression Dies Alcan Type (100 Ton)
Haxagonal dies for aluminium/steel sleeves

Conductor ACSR		Alcan Dia Nos.			
Code	Dia mm	Alum	A/F mm	Steel	A/F mm
WOLF	18.13	A-B	28.2	S-8	12.7
HORSE	13.95	A-9	23.3	S-9	15.2
PANTHER	21.00	A-9)	32.3	S-9	15.2
KEZIAH	19.53	A-9	32.3	S-9	15.2
BEAR	23.45	A-9	32.3	S-10	16.1
LYNX	19.53	A-9	32.3	S-10	16.1
GOAT	25.97	A-10	36.2	S-10	16.1
ZEBRA	28.62	A-11	40.2	S-12	16.1
DINOSAUR	35.56	A-13	49.7	S-12	20.2
CENTIPEDE	26.49	A-10	36.2	NA	NA
BULL	38	A-13	49.7	NA	NA

Hydraulic Hand Pump/Jack
CSYQ 400630

Hand Pump

Ideal for remote crimping, cutting and punching
Compact and lightweight
Two stage pump for rapid advance of dies
Strong knob type release valve
Supplied with 2mtr high pressure hose and coupler plug

Specifications

Maximum output pressure: 700 kg/cm2 (700 bars)
Oil displacement low pressure: 13 cc
Oil displacement high pressure: 2.3 cc
Oil capacity: 1800 cc
Lenght: 510 mm
Weight: 11 kg

Crimp-Jack

German design Ultra lightweight
U-type head with locking pin Easy to replace dies
Quick coupler with base style
Operates with any hydraulic pump
Suitable for all types of cable joints

Specifications

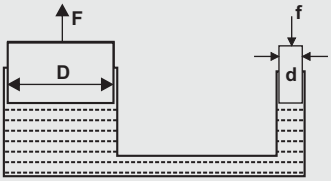
Crimping range: 150 to 630 sq mm for Cu/Al
Crimping force: 250 KN
Stroke: 26 mm
Oil capacity: 80 cc
Crimping profile: Hexagonal
Weight: 5.5 kg
Packing: Metal case / canvas bag

Hydraulic crimping tools: principle of operation

Principle of operation of hydraulic crimping tools is based on **Pascal's Law of Transmissibility of Fluid Pressure which States that "an incremental pressure in a fluid is transmitted throughout volume of the liquid uniformly"**. A hydraulic Crimping tool in an elementary form is made of a cylinder and piston with a large diameter (D) and a cylinder and piston with a very small diameter (d) Fluid is pumped from the small cylinder drawn from a sump to the large cylinder. When fluid is continuously pumped from the small cylinder to the large cylinder fluid pressure increases steadily and causes the piston in the large cylinder to move forward which, in turn keeps pushing the movable half of the crimping die attached to it. When a force (F) is exerted on the Cu/Al sleeve enclosing the conductor, resistance offered by the sleeve to deformation by compression causes fluid pressure to build up continuously. The pressure developed (p) is =F /A where,

F=Force exerted by the fluid on the piston of the large cylinder

A=Area of piston of the large cylinder



The force and consequently the hydraulic fluid pressure rise incrementally as the compression operation advances. As the fluid pressure is the same in both cylinders by " Pascal's Law ", the force (f) exerted by piston of the small cylinder is several times smaller than force (F) developed.

Therefore, p= f/a =F/A

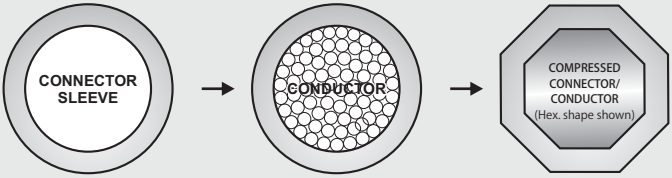
where,

f= force exerted by the fluid on the piston of the small cylinder

a- =area of piston of the small cylinder

With a small force developed in the small cylinder, a large force (F) is overcome .The large force is due to resistance Offered by metal (Cu/Al) to deformation by

3 STAGES OF COMPRESSION (CRIMPING)

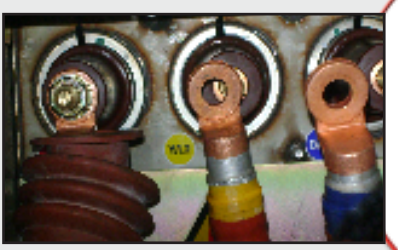


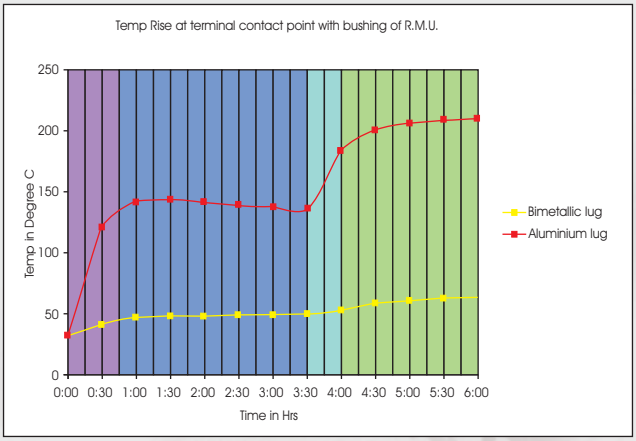
Crimp Terminals

Bimetallic Terminals (Lugs)

Bimetallic terminals for connecting power cables with aluminium conductors to copper terminals and bus bars on equipments are made by STI. A bimetallic terminal consists of copper palm integrated to an aluminium barrel by process of friction welding. Aluminium conductors of a power cable is connected to bimetallic terminal inside the aluminium barrel and secured by compression (crimping) tools. Friction welding done in special machines ensures a positive bond of the two metals at the interface by fusion. The copper palm can be connected either to bushing of equipments or to a copper bus bar by means of high tensile bolts to recommended torque. Bimetallic terminals eliminate burn out of copper terminals crimped to aluminium conductors. They are standard connectors for connecting cables with aluminium conductors to bushing of Ring Main Units (RMUs) and to copper bus bars. Bimetallic terminals eliminate burnout of terminals occurring due to following methods of connection:

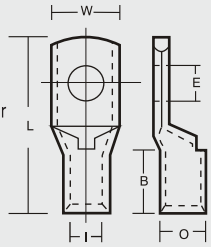
- Copper terminals crimped to aluminium conductors.
- Alumiium terminals crimped to aluminium conductors and connected to copper





Tubular Cable Lugs (BS 4579)

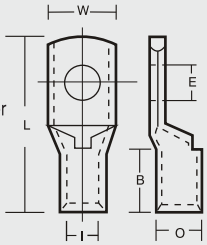
- Electrolytic high conductivity copper
- Electro tinned plated
- With / without inspection hole



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm				
		E	B	W	I	O	L
CCT-438	1.5	M 4	5.5	8	1.8	3.7	17
CCT-538	1.5	M 5	-	8	-	-	17
CCT-539	1.5	M 6	-	10	-	-	19
CCT-388	2.5	M 4	8	8	2.4	4.0	21.5
CCT-540	2.5	M 5	-	10	-	-	21.5
CCT-436	2.5	M 5	-	8	-	-	21.5
CCT-541	2.5	M 6	-	10	-	-	24
CCT-389	4	M 5	8	10	3.1	4.8	21
CCT-543	4	M 6	-	10	-	-	21
CCT-404	4	M 5	-	9	-	-	21
CCT-424	4	M 8	-	12	-	-	26.5
CCT-390	6	M 5	10	10	3.8	5.5	23
CCT-444	6	M 6	-	10	-	-	23
CCT-544	6	M 6	-	12	-	-	27
CCT-545	6	M 8	-	12	-	-	27
CCT-423	6	M 10	-	16.8	-	-	32
CCT-405	10	M 5	10	12	4.5	6.2	25.5
CCT-353	10	M 6	-	12	-	-	25.5
CCT-547	10	M 8	-	12	-	-	27.5
CCT-447	10	M 10	-	19	-	-	32
CCT-430	10	M 12	-	19	-	-	36
CCT-429	16	M 5	13	12	5.4	7.1	31
CCT-354	16	M 6	-	12	-	-	31
CCT-549	16	M 8	-	12	-	-	31
CCT-440	16	M 10	-	19	-	-	35
CCT-401	16	M 12	-	19	-	-	39
CCT-550	20	M 8	13	12	6.0	7.7	32.5
CCT-355	25	M 6	14	13	6.8	8.8	33
CCT-551	25	M 8	-	16	-	-	33
CCT-552	25	M 10	-	16	-	-	36.5
CCT-402	25	M 12	-	18	-	-	40
CCT-542	35	M 6	14	15	8.2	10.6	36
CCT-403	35	M 6	-	15	-	-	38
CCT-356	35	M 8	-	15	-	-	36
CCT-301	35	M 8	-	15	-	-	38
CCT-399	35	M 10	-	15	-	-	40
CTT-544	35	M 10	-	18	-	-	39
CCT-406	35	M 10	-	18	-	-	41
CCT-419	35	M 12	-	20	-	-	42

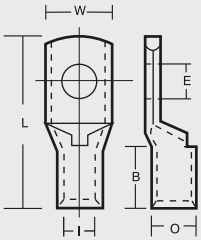
Tubular Cable Lugs (BS 4579)

- Electrolytic high conductivity copper
- Electro tinned plated
- With / without inspection hole



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm				
		E	B	W	I	O	L
CCT-452	50	M 6	18	18	9.5	12.4	45
CCT-357	50	M 8	-	18	-	-	45
CCT-556	50	M 10	-	18	-	-	45
CCT-408	50	M 12	-	20	-	-	45
CCT-439	70	M 6	20	21	11.2	14.7	52
CCT-557	70	M 8	-	21	-	-	52
CCT-358	70	M 10	-	21	-	-	52
CCT-559	70	M 12	-	21	-	-	52
CCT-407	70	M 14	-	28	-	-	55
CCT-437	70	M 16	-	28	-	-	55
CCT-305	95	M 8	22	25.0	13.5	17.4	57
CCT-359	95	M 10	-	25.0	-	-	57
CCT-561	95	M 12	-	25.0	-	-	57
CCT-461	95	M 14	-	28.0	-	-	67
CCT-340	95	M 16	-	28.0	-	-	60
CCT-445	120	M 8	24	28.0	15.0	19.4	63
CCT-408	120	M 10	-	28.0	-	-	63
CCT-241	120	M 12	-	28.0	-	-	63
CCT-439	120	M 14	-	28.0	-	-	63
CCT-546	120	M 16	-	28.0	-	-	63
CCT-436	150	M 8	29	30.0	16.5	21.2	71
CCT-409	150	M 10	-	30.0	-	-	71
CCT-242	150	M 12	-	30.0	-	-	71
CCT-418	150	M 14	-	30.0	-	-	71
CCT-564	150	M 16	-	30.0	-	-	71
CCT-449	150	M 20	-	34.0-	-		71
CCT-420	185	M 10	34	34.0	18.5	23.5	79
CCT-304	185	M 12	-	34.0	-	-	79
CCT-410	185	M 14	-	34.0	-	-	79
CCT-243	185	M 16	-	34.0	-	-	79
CCT-451	185	M 20	-	34.0	-	-	79
CCT-352	240	M 10	39	38.0	21.0	26.5	93
CCT-302	240	M 12	-	38.0	-	-	93
CCT-442	240	M 14	-	38.0	-	-	93
CCT-244	240	M 16	-	38.0	-	-	93
CCT-567	240	M 20	-	38.0	-	-	93
CCT-311	300	M 12	44	43.0	23.5	30.0	101
CCT-499	300	M 14	-	43.0	-	-	101
CCT-254	300	M 16	-	43.0	23.5	30.0	101
CCT-569	300	M 20	-	43.0	-	-	101

Tubular Cable Lugs (BS 4579)



- Electrolytic high conductivity copper
- Electro tinned plated
- With / without inspection hole

Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm				
		E	B	W	I	O	L
CCT- 417	400	-	47	50.1	26.8	34.8	116
CCT-252	400	M 12	-	50.1	-	-	116
CCT-457	400	M 14	-	50.1	-	-	116
CCT-456	400	M 14	-	50.1	-	-	114
CCT-246	400	M 16	-	50.1	-	-	116
CCT-339	400	M 16	-	50.1	-	-	105
CCT-257	400	M 20	-	50.1	-	-	105
CCT-571	400	M 20	-	50.1	-	-	116
CCT-459	500	-	52	56.0	30.0	39.0	126
CCT-573	500	M 20	52	59.5	31.7	41.4	126
CCT-337	500	M 20	52	56.0	30.0	39.0	126
CCT-247	500	M 20	52	56.0	30.0	39.0	126
CCT-259	630	M 16	59	65.0	35.0	45.0	146
CCT-248	630	M 20	-	65.0	-	-	146
CCT-361	630	-	-	65.0	-	-	146
CCT-308	630	M 20	70	59.0	34.0	40.2	146
CCT-341	630	-	-	59.0	-	-	146
CCT-249	630	-	-	59.6	-	-	146
CCT-599	800	-	78	72.9	39.0	50.6	171
CCT-590	1000	-	90	80.8	43.0	56.2	202

Without Inspection Hole

CCT - W

With Tongue Type

CCT - T

With Nylon Sleeve

CCT - N

With 45º Angle

CCT - 45

With 90º Angle

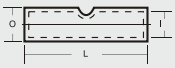
CCT - 90

With Easy Entry

CCT - EE

Compression Joint (BS 4579) Non Tension Proof for Copper Conductor

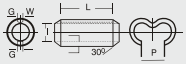
- Electrolytic high conductivity copper
- Electro tinned plated
- With inspection hole



Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
CTL-1.5	1.5	1.8	3.7	15
CTL-2.5	2.5	2.4	4.0	18
CTL-44	3.1	4.8	19	
CTL-66	3.8	5.5	20	
CTL-10	10	4.5	6.2	23
CTL-16	16	5.4	7.1	25
CTL-20	20	6.0	7.7	35
CTL-25	25	6.8	8.8	35
CTL-35	35	8.2	10.6	38
CTL-50	50	9.5	12.4	42
CTL-70	70	11.2	14.7	47
CTL-95	95	13.5	17.4	47
CTL-120	120	15.0	19.4	65
CTL-150	150	16.5	21.2	65
CTL-185	185	18.5	23.5	67
CTL-240	240	21.0	26.5	80
CTL-300	300	23.5	30.0	89
CTL-400	400	26.8	34.8	100
CTL-500	500	30.0	39.0	115
CTL-630	630	35.0	45.0	115
CTL-800	800	39.0	50.6	230
CTL-1000	1000	43.0	56.2	230

Weak Back Ferrules (BS 1977) Soldering Type

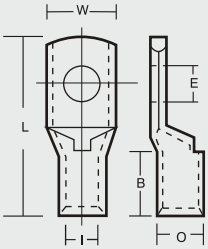
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Dimensions mm						
		I	C	G	L	T	P	W
CWB-6	6	3.0	4.6	2.0	20.0	0.8	3.0	-
CWB-10	10	4.4	6.0	2.0	25.0	0.8	4.0	-
CWB-16	16	5.5	7.5	2.0	25.0	1.0	5.0	1.5
CWB-25	25	7.0	9.0	2.0	30.0	1.0	7.0	1.5
CWB-35	35	8.0	10.4	2.0	35.0	1.2	8.0	1.5
CWB-50	50	9.5	11.9	2.0	40.0	1.2	9.0	1.5
CWB-70	70	12.0	14.6	3.0	45.0	1.4	12.0	3.0
CWB-95	95	13.5	16.3	3.0	50.0	1.4	13.0	3.0
CWB-120	120	15.5	18.7	4.0	55.0	1.6	15.0	3.0
CWB-150	150	17.0	20.6	4.0	60.0	1.8	16.0	3.0
CWB-185	185	18.5	22.9	4.0	65.0	2.2	18.0	5.0
CWB-225	225	20.5	24.9	5.0	75.0	2.2	20.0	5.0
CWB-240	240	22.0	26.4	5.0	80.0	2.2	21.0	5.0
CWB-300	300	24.0	29.6	5.0	85.0	2.8	23.0	5.0
CWB-400	400	28.5	34.7	7.0	95.0	3.1	27.0	5.0
CWB-500	500	30.5	37.5	7.0	105.0	3.5	30.0	5.0
CWB-625	625	34.9	42.5	8.0	115.0	4.0	33.0	5.0

Tubular Cable Lugs
Regular Series

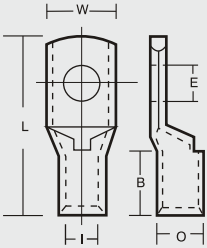
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Stud Hole E	I	O	L
CET 1.5-4	1.5	M 4	2.3	3.5	18
CET 1.5-5	1.5	M 5	2.3	3.5	18
CET 1.5-6	1.5	M 6	2.3	3.5	18
CET 2.5-4	2.5	M 4	2.8	4	19
CET 2.5-5	2.5	M 5	2.8	4	19
CET 2.5-6	2.5	M 6	2.8	4	19
CET 2.5-8	2.5	M 8	2.8	4	19
CET 4-4	4	M 4	3.1	4.8	20
CET 4-5	4	M 5	3.1	4.8	20
CET 4-6	4	M 6	3.1	4.8	20
CET 4-8	4	M 8	3.1	4.8	20
CET 6-4	6	M 4	3.8	5.5	23
CET 6-5	6	M 5	3.8	5.5	23
CET 6-6	6	M 6	3.8	5.5	23
CET 6-8	6	M 8	3.8	5.5	23
CET 6-10	6	M 10	3.8	5.5	23
CET 10-5	10	M 5	4.8	6.8	24.5
CET 10-6	10	M 6	4.8	6.8	24.5
CET 10-8	10	M 8	4.8	6.8	24.5
CET 10-10	10	M 10	4.8	6.8	24.5
CET 10-12	10	M 12	4.8	6.8	24.5
CET 16-5	16	M 5	5.5	7.5	29.5
CET 16-6	16	M 6	5.5	7.5	29.5
CET 16-8	16	M 8	5.5	7.5	29.5
CET 16-0	16	M 10	5.5	7.5	29.5
CET 16-12	16	M 12	5.5	7.5	29.5
CET 16-14	16	M 14	5.5	7.5	29.5
CET 20-8	20	M 8	6.8	8.5	32
CET 25-6	25	M 6	7	9	32.5
CET 25-8	25	M 8	7	9	32.5
CET 25-10	25	M 10	7	9	32.5
CET 25-12	25	M 12	7	9	32.5
CET 35-6	35	M 6	8.3	10.5	37.5
CET 35-8	35	M 8	8.3	10.5	37.5
CET 35-10	35	M 10	8.3	10.5	37.5
CET 35-12	35	M 12	8.3	10.5	37.5
CET 35-14	35	M 14	8.3	10.5	37.5
CET 50-6	50	M 6	9.8	12.5	44.5
CET 50-8	50	M 8	9.8	12.5	44.5
CET 50-10	50	M 10	9.8	12.5	44.5
CET 50-12	50	M 12	9.8	12.5	44.5
CET 50-14	50	M 14	9.8	12.5	44.5
CET 70-6	70	M 6	11.8	14.5	48
CET 70-8	70	M 8	11.8	14.5	48
CET 70-10	70	M 10	11.8	14.5	48
CET 70-12	70	M 12	11.8	14.5	48
CET 70-14	70	M 14	11.8	14.5	48
CET 70-16	70	M 16	11.8	14.5	48
CET 95-6	95	M 6	13.8	17.5	54
CET 95-8	95	M 8	13.8	17.5	54
CET 95-10	95	M 10	13.8	17.5	54
CET 95-12	95	M 12	13.8	17.5	54
CET 95-14	95	M 14	13.8	17.5	54
CET 95-16	95	M 16	13.8	17.5	54
CET 95-20	95	M 20	13.8	17.5	54
CET 120-8	120	M 8	15.5	19.5	61
CET 120-10	120	M 10	15.5	19.5	61
CET 120-12	120	M 12	15.5	19.5	61
CET 120-14	120	M 14	15.5	19.5	61
CET 120-16	120	M 16	15.5	19.5	61
CET 120-20	120	M 20	15.5	19.5	61

Tubular Cable Lugs
Regular Series

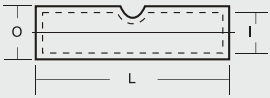
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Stud Hole E	I	O	L
CET 150-8	150	M 8	16.5	21	68
CET 150-10	150	M 10	16.5	21	68
CET 150-12	150	M 12	16.5	21	68
CET 150-14	150	M 14	16.5	21	68
CET 150-16	150	M 16	16.5	21	68
CET 150-20	150	M 20	16.5	21	68
CET 185-10	185	M 10	18.8	23.5	76
CET 185-12	185	M 12	18.8	23.5	76
CET 185-14	185	M 14	18.8	23.5	76
CET 185-16	185	M 16	18.8	23.5	76
CET 185-20	185	M 20	18.8	23.5	76
CET 240-10	240	M 10	21	26	88.5
CET 240-12	240	M 12	21	26	88.5
CET 240-14	240	M 14	21	26	88.5
CET 240-16	240	M 16	21	26	88.5
CET 240-20	240	M 20	21	26	88.5
CET 300-12	300	M 12	24	30	99
CET 300-14	300	M 14	24	30	99
CET 300-16	300	M 16	24	30	99
CET 300-18	300	M 18	24	30	99
CET 300-20	300	M 20	24	30	99
CET 400-12	400	M 12	27	34	110.5
CET 400-14	400	M 14	27	34	110.5
CET 400-16	400	M 16	27	34	110.5
CET 400-20	400	M 20	27	34	110.5
CET 500-16	500	M 16	30	38	121
CET 500-20	500	M 20	30	38	121
CET 630-16	630	M 16	35	45	135.5
CET 630-20	630	M 20	35	45	135.5
CET 800	800	-	39	50	170
CET 1000	1000	-	44	56	200

Compression Joint
Regular Series

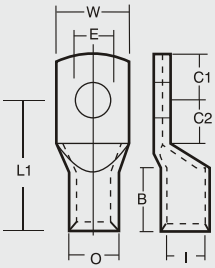
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	I	O	L
CEC 1.5	1.5	2.3	3.5	20
CEC 2.5	2.5	2.8	4	20
CEC 4	4	3.1	4.5	20
CEC 6	6	4.1	5.5	25
CEC 10	10	4.5	6.1	30
CEC 16	16	5.5	7.1	35
CEC 25	25	6.8	8.7	40
CEC 35	35	8.5	10.6	45
CEC 50	50	9.8	12.3	48
CEC 70	70	11.7	14.5	52
CEC 95	95	14	17	57
CEC 120	120	15.6	19	62
CEC 150	150	16.9	20.5	68
CEC 185	185	19.3	23.5	72
CEC 240	240	21.5	26.3	80
CEC 300	300	24.2	30	85
CEC 400	400	27.2	34	90
CEC 500	500	30.2	38	100
CEC 630	630	35.5	43.8	100

Tubular Cable Lugs: DIN 46235

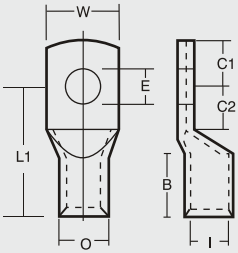
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm							
		E	I	B	W	E	O	C1	C2	L1
CD 6-5	6	M 5	3.8	10	8.5	5.3	5.5	6.5	7.5	24
CD 6-6	6	M 6			8.5	6.4		7.5	8	
CD 6-8	6	M 8			13	8.4		10	10	
CD 10-5	10	M 5	4.5	10	9	5.3	6	7	8.5	27
CD 10-6	10	M 6			9	6.4		7.5	8.5	
CD 10-8	10	M 8			13	8.4		10	10	
CD 16-6	16	M 6	5.5	20	13	6.4	8.5	7.5	8	36
CD 16-8	16	M 8			13	8.4		10	10	
CD 16-10	16	M 10			17	10.5		12	12	
CD 16-12	16	M 12			18	13		13	13	
CD 25-6	25	M 6	7	20	14	6.4	10	7.5	8	38
CD 25-8	25	M 8			16	8.4		10	10	
CD 25-10	25	M 10			17	10.5		12	12	
CD 25-12	25	M 12			19	13		13	13	
CD 35-6	35	M 6	8.2	20	17	6.4	12.5	7.5	8	42
CD 35-8	35	M 8			17	8.4		10	10	
CD 35-10	35	M 10			19	10.5		12	12	
CD 35-12	35	M 12			21	13		13	13	
CD 35-14	35	M 14			21	15		14.5	14.5	
CD 50-8	50	M 8	10	28	20	8.4	14.5	10	10	52
CD 50-10	50	M 10			22	10.5		12	12	
CD 50-12	50	M 12			24	13		13	13	
CD 50-14	50	M 14			24	15		14.5	14.5	
CD 50-16	50	M 16			28	17		16	16	
CD 70-8	70	M 8	11.5	28	24	8.4	16.5	10	10	55
CD 70-10	70	M 10			24	10.5		12	12	
CD 70-12	70	M 12			24	13		13	13	
CD 70-14	70	M 14			24	15		14.5	14.5	
CD 70-16	70	M 16			30	17		16	16	
CD 95-8	95	M 8	13.5	35	28	8.4	19	12	12	65
CD 95-10	95	M 10			28	10.5		12	12	
CD 95-12	95	M 12			28	13		13	13	
CD 95-14	95	M 14			28	15		14.5	14.5	
CD 95-16	95	M 16			32	17		16	16	
CD 120-10	120	M 10	15.5	35	32	10.5	21	15	16	70
CD 120-12	120	M 12			32	13		16	17	
CD 120-14	120	M 14			32	15		18	18	
CD 120-16	120	M 16			32	17		19	20	
CD 120-20	120	M 20			38	21		21	22	

Tubular Cable Lugs: DIN 46235

- Electrolytic high conductivity copper
- Electro tinned plated



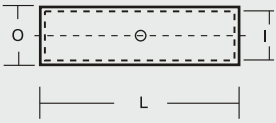
Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm							
		E	I	B	W	E	O	C1	C2	L1
CD 150-10	150	M 10	17	35	34	10.5	23.5	15	16	78
CD 150-12	150	M 12			34	13		16	17	
CD 150-14	150	M 14			34	15		19	20	
CD 150-16	150	M 16			34	17		19	20	
CD 150-20	150	M 20			40	21		21	22	
CD 185-10	185	M 10	19	40	37	10.5	25.5	15	16	82
CD 185-12	185	M 12			37	13		16	17	
CD 185-14	185	M 14			37	15		19	20	
CD 185-16	185	M 16			37	17		19	20	
CD 185-20	185	M 20			40	21		21	22	
CD 240-12	240	M 12	21.5	40	42	13	29	16	17	92
CD 240-14	240	M 14			42	15		19	20	
CD 240-16	240	M 16			42	17		19	20	
CD 240-20	240	M 20			45	21		21	22	
CD 300-14	300	M 14	24.5	50	48	15	32	19	22	100
CD 300-16	300	M 16			48	17		19	22	
CD 300-20	300	M 20			48	21		22	22	
CD 400-14	400	M 14	27.5	70	55	15	38.5	25	25	115
CD 400-16	400	M 16			55	17		25	25	
CD 400-20	400	M 20			55	21		25	25	
CD 500-16	500	M 16	31	70	60	17	42	25	25	125
CD 500-20	500	M 20			60	21		25	25	
CD 625-16	625	M 16	34.5	80	60	17	44	25	25	135
CD 625-20	625	M 20			60	21		25	25	
CD 800-16	800	M 16	40	100	75	17	52	30	30	165
CD 800-20	800	M 20			75	21		30	30	

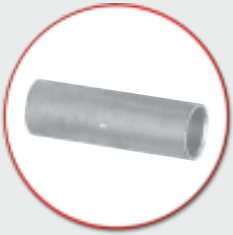
45˚ Angle Type CD - 45

90˚ Angle Type CD - 90

Connectors Non Tension DIN 46267 Part 1

- Electrolytic high conductivity copper
- Electro tinned plated

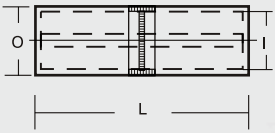




Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
CD 6	6	3.8	5.5	30
CD 10	10	4.5	6	30
CD 16	16	5.5	8.5	50
CD 25	25	7	10	50
CD 35	35	8.2	12.5	50
CD 50	50	10	14.5	56
CD 70	70	11.5	16.5	56
CD 95	95	13.5	19	70
CD 120	120	15.5	21	70
CD 150	150	17	23.5	80
CD 185	185	19	25.5	85
CD 240	240	21.5	29	90
CD 300	300	24.5	32	100
CD 400	400	27.5	38.5	150
CD 500	500	31	42	160
CD 625	625	34.5	44	160
CD 800	800	40	52	200
CD 1000	1000	44	58	200

Butt Connectors Non Tension with Barrier: DIN 46267

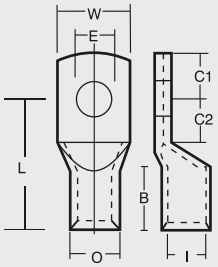
- Electrolytic high conductivity copper
- Electro tinned plated
- Leak Proof Against Oil



Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
CB 16	16	5.5	8.5	50
CB 25	25	7	10	50
CB 35	35	8.2	12.5	50
CB 50	50	10	14.5	56
CB 70	70	11.5	16.5	56
CB 95	95	13.5	19	70
CB 120	120	15.5	21	70
CB 150	150	17	23.5	80
CB 185	185	19	25.5	85
CB 240	240	21.5	29	90
CB 300	300	24.5	32	100
CB 400	400	27.5	38.5	150
CB 500	500	31	42	160
CB 625	625	34.5	44	160

Tubular Cable Lugs
Standard Type - Euro Series

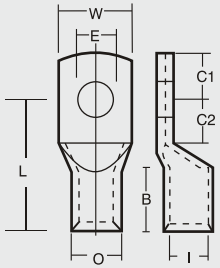
- Electrolytic high conductivity copper
- Electro tinned plated
- With/without inspection hole



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm								
			E	I	B	W	E	O	C1	C2	L
CS 6-5	6	M 5	3.5	9	10	5.5	6.5	6.5	7.5	21
CS 6-6	6	M 6			12	6.5		6.5	7.5	21
CS 6-8	6	M 8			15	8.5		10	10	23
CS 6-10	6	M 10			17	10.5		12	12	25
CS 6-12	6	M 12			19	13		13	13	28
CS 10-5	10	M 5	4.5	10	12	5.5	7	6.5	7.5	22
CS 10-6	10	M 6			12	6.5		6.5	7.5	22
CS 10-8	10	M 8			15	8.5		10	10	25
CS 10-10	10	M 10			17	10.5		12	12	27
CS 10-12	10	M 12			19	13		13	13	29
CS 16-5	16	M 5	5.5	13	12	5.5	8.5	5.5	6.5	26
CS 16-6	16	M 6			12	6.5		6.25	7.5	27
CS 16-8	16	M 8			15	8.5		8.5	9.5	29
CS 16-10	16	M 10			17	10.5		10.5	11.5	31
CS 16-12	16	M 12			19	13		12	13	33
CS 25-5	25	M 5	7	15	14	5.5	10	7.5	7.5	30
CS 25-6	25	M 6			14	6.5		7.5	7.5	30
CS 25-8	25	M 8			16	8.5		10	10	32
CS 25-10	25	M 10			18	10.5		12	12	34
CS 25-12	25	M 12			19	13		13	13	35
CS 25-14	25	M 14			21	15		14.5	14.5	38
CS 35-6	35	M 6	8.5	17	17	6.5	12	7.5	7.5	32
CS 35-8	35	M 8			17	8.5		10	10	34
CS 35-10	35	M 10			19	10.5		12	12	37
CS 35-12	35	M 12			21	13		13	13	38
CS 35-14	35	M 14			21	15		14.5	14.5	40
CS 35-16	35	M 16			26	17		16	16	42
CS 50-6	50	M 6	10	19	20	6.5	14	10	10	37
CS 50-8	50	M 8			20	8.5		10	10	37
CS 50-10	50	M 10			20	10.5		12	12	39
CS 50-12	50	M 12			23	13		13	13	43
CS 50-14	50	M 14			23	15		14.5	14.5	45
CS 50-16	50	M 16			28	17		16	16	46
CS 50-20	50	M 20			30	21		19	19	48
CS 70-6	70	M 6	12	21	20	6.5	16.5	10	10	43
CS 70-8	70	M 8			23	8.5		10	10	43
CS 70-10	70	M 10			23	10.5		12	12	44
CS 70-12	70	M 12			23	13		13	13	46
CS 70-14	70	M 14			23	15		14.5	14.5	48
CS 70-16	70	M 16			28	17		16	16	50
CS 70-20	70	M 20			30	21		19	19	53

Tubular Cable Lugs
Standard Type

- Electrolytic high conductivity copper
- Electro tinned plated
- With/without inspection hole



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm								
		E	I	B	W	E	O	C1	C2	L
CS 95-8	95	M 8	13.5	25	26	8.5	18	12	12	48
CS 95-10	95	M 10			26	10.5		12	12	48
CS 95-12	95	M 12			26	13		13	13	49
CS 95-14	95	M 14			26	15		14.5	14.5	51
CS 95-16	95	M 16			28	17		16	16	54
CS 95-20	95	M 20			36	21		22	22	60
CS 120-8	120	M 8	15	26	28	8.5	19.5	14	14	51
CS 120-10	120	M 10			28	10.5		14	14	51
CS 120-12	120	M 12			28	13		14	14	51
CS 120-14	120	M 14			28	15		15	15	52
CS 120-16	120	M 16			30	17		16	16	54
CS 120-20	120	M 20			36	21		22	22	63
CS 150-8	150	M 8	16.5	30	31	8.5	21	14	14	56
CS 150-10	150	M 10			31	10.5		14	14	56
CS 150-12	150	M 12			31	13		15	15	57
CS 150-14	150	M 14			31	15		15	15	57
CS 150-16	150	M 16			31	17		16	16	58
CS 150-20	150	M 20			36	21		22	22	66
CS 185-10	185	M 10	19	30	35	10.5	24	18	18	65
CS 185-12	185	M 12			35	13		18	18	65
CS 185-14	185	M 14			35	15		18	18	65
CS 185-16	185	M 16			35	17		18	18	65
CS 185-20	185	M 20			39	21		22	22	69
CS 240-10	240	M 10	21	35	39	10.5	26	21.5	19	72
CS 240-12	240	M 12			39	13		21.5	19	72
CS 240-14	240	M 14			39	15		21.5	19	72
CS 240-16	240	M 16			39	17		21.5	19	72
CS 240-20	240	M 20			39	21		21.5	19	72
CS 300-12	300	M 12	23.5	44	43	13	29.5	24	24	87
CS 300-14	300	M 14			43	15		24	24	87
CS 300-16	300	M 16			43	17		24	24	87
CS 300-20	300	M 20			43	21		24	24	87
CS 400-12	400	M 12	27	44	49	13	34	24	24	90
CS 400-14	400	M 14			49	15		24	24	90
CS 400-16	400	M 16			49	17		24	24	90
CS 400-20	400	M 20			49	21		24	24	90

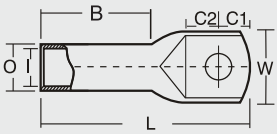
CS - 45

CS - 90

CS - EE

Tubular Cable Connector
MV Series

- Electrolytic high conductivity copper
- Electro tinned plated

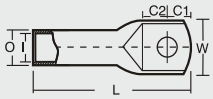


Product Ref	Conductor Size mm2	Stud Hole	Dimension						
		E	B	W	I	O	C1	C2	L
CMV 25-8	25	8.4	20	18	6.8	9	10	11	45
CMV 35-10	35	10.5	22	19	8.2	11	11	11	48
CMV 50-10	50	10.5	25	20	9.5	13	12	13	55
CMV 70-10	70	10.5	28	21	11.2	15	12	13	60
CMV 95-12	95	13	34	25	13.5	17.8	13	13	70
CMV 120-12	120	13	35	28	14.5	19.5	13	13	75
CMV 150-12	150	13	35	30	16.5	22	16	16	83
CMV 185-12	185	13	41	35	18	24	17	17	90
CMV 240-16	240	17	44	39	21	27.5	20	21	100
CMV 300-16	300	17	53	44	24	31	20	21	110
CMV 400-20	400	21	60	50	26.5	35	25	26	130
CMV 500-20	500	21	67	56	29.5	39	25	26	140
CMV 630-20	630	21	76	64.5	33	43	25	26	150
CMV 800-20	800	21	90	72.9	39	50.6	30	30	182
CMV 1000-20	1000	21	100	80.8	43	56.2	35	35	202

Heavy Duty Copper Terminal Long Barrel

Without Inspection Hole

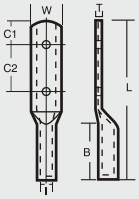
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm					
			C2	C1	W	I	O	L
CLB-16	M 10	10.5	11	10	15	5.4	7.5	46
CLB-25	M 10	10.5	11	10	18	6.8	9.0	51
CLB-35	M 12	13.2	14	12	19	8.2	11.0	53
CLB-50	M 12	13.2	14	12	20	9.5	13.0	55
CLB-70	M 12	13.2	14	12	21	11.2	15.0	70
CLB-95	M 12	13.2	14	12	25	13.5	17.8	78
CLB-120	M 12	13.2	14	12	28	15.0	19.5	82
CLB-150	M 12	13.2	16	14	30	16.5	21.5	98
CLB-185	M 12	13.2	16	16	35	18.5	24.0	101
CLB-240	M 12	13.2	18	16	38	21.0	26.5	101
CLB-300	M 12	13.2	20	16	44	23.5	30.5	106
CLB-400	M 16	17.0	22	19	50.1	28.5	37.0	140
CLB-424	M 16	17.0	22	19	56	30.0	39.0	147
CLB-630	M 16	17.0	22	19	62	35.0	45.0	159

Tubular Cable Lugs Long Palm with Two Holes

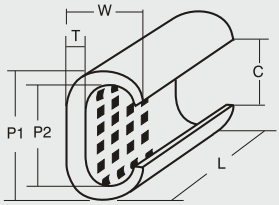
- Electrolytic high conductivity copper
- Electro tinned plated
- With / without inspection hole



Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm						
			C2	C1	L	T	B	I	W
CLP-25	25	M12	44.5	16	119	3	28	6.8	21
CLP-35	35	M12	44.5	16	120	3	28	8.2	21
CLP-50	50	M12	44.5	16	124	3.3	36	9.5	21
CLP-70	70	M12	44.5	16	128	3.5	38	11.2	21.5
CLP-95	95	M12	44.5	16	130	3.9	38	13.5	25.5
CLP-120	120	M12	44.5	16	132	4.4	40	15	28
CLP-150	150	M12	44.5	16	138	4.7	40	16.5	31
CLP-185	185	M12	44.5	16	147	5.0	50	18.5	34
CLP-240	240	M12	44.5	16	136	5.5	43	21	39
CLP-300	300	M12	44.5	16	141	6.5	47	23.5	43.5
CLP-400	400	M12	44.5	16	146	8	50	26.8	50
CLP-500	500	M12	44.5	16	156	9	60	30	56
CLP-630	630	M12	44.5	16	166	10	65	39	65

C Clamp

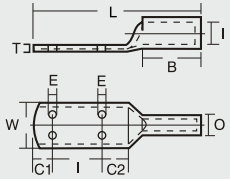
- Electrolytic high conductivity copper
- Electro tinned plated



Connector Size	Dimensions mm					
	P1	P2	W	L	T	C
CC - 11	9.5	6.3	6.2	12	1.6	4.0
CC - 16	11.8	7.8	7.8	13	2.0	5.0
CC - 20	12.8	8.4	9.7	13	2.9	5.1
CC - 26	14.7	10.2	10.9	16	3.2	6.5
CC - 44	19.0	13.4	14.4	20	4.0	8.5
CC - 60	21.0	15.4	15.1	22	4.0	9.7
CC - 76	24.4	17.3	17.6	22	5.0	10.8
CC - 98	27.8	20.8	18.8	25	5.0	13.8
CC -122	29.8	22.1	21.2	26	5.5	13.5
CC -154	34.0	25.7	24.4	28	6.0	17.0
CC -190	37.0	28.5	25.4	35	6.0	17.4
CC -240	40.0	30.2	28.5	40	7.0	19.0
CC -288	44.5	34.7	31.1	45	7.0	22.3
CC -365	47.5	37.7	34.0	50	7.0	24.8
CC -450	57.0	42.5	41.0	60	10.0	28.0
CC -560	62.0	46.0	45.0	65	11.0	31.0
CC -700	68.0	51.0	49.5	70	12.0	34.0

Tubular Cable Lugs Standard Type Four Hole

- Electrolytic high conductivity copper
- Electro tinned plated
- With inspection hole

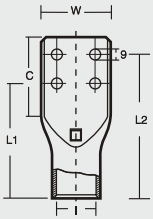


Product Ref.	Conductor Section mm²	Dimensions mm								
		I	B	W	E	O	C1	C2	L	T
CST4-300	300	23.5	42	58	8.5	30	16.3	16.3	115	6.5
CST4-400	400	26.8	44	58	8.5	34.8	16.3	16.3	120	8
CST4-500	500	30	48	56	8.5	39			124	
CST4-630	630	35	56	65	8.5	45	20.3	20.3	144	10

Transformer Lugs Four Holes

- Electrolytic high conductivity copper
- Electro tinned plated
- With/without inspection hole

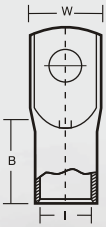
The CHVT Lugs are made from pure electrolytic copper tube, annealed and tin plated.
The four hole stud fixing, in accordance with ESI specifications, ensures compatibility with most transformer fixing arrangements.



Product Ref.	Dimensions mm				
	I	W	C	L1	L2
CTL-4H60	23.7	61	60	93	118
CTL-4H80	27	61	60	94	119
CTL-4H100	30.3	61	60	99	124
CTL-4H120	33.4	61	60	104	129
CTL-4H160	38	61	60	118	143

Narrow Palm Lugs

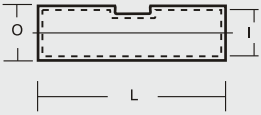
- Electrolytic high conductivity copper
- Electro tinned plated
- With/without inspection hole



Product Ref.	Dimensions mm		
	I	B	W
CNPL35-6	9.3	14	15
CNPL50-8	9.5	22	15
CNPL70-8	11.2	24	17
CNPL95-10	13.5	27	19
CNPL120-10	15	30	19
CNPL150-10	16.5	30	19
CNPL185-12	19.2	34	31
CNPL300-12	21.1	44	31

Butt Connectors Standard Type

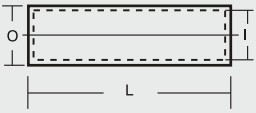
- Electrolytic high conductivity copper
- Electro tinned plated
- With inspection hole



Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
BC- 0.75	0.75	1.3	2.8	20
BC - 1.5	1.5	1.8	3.3	25
BC - 2.5	2.5	2.3	4.2	25
BC - 4	4	3	5	25
BC - 6	6	3.5	6.5	25
BC - 10	10	4.5	7	30
BC - 16	16	5.5	8.5	35
BC - 25	25	7	10	40
BC - 35	35	8.5	12	45
BC - 50	50	10	14	50
BC - 70	70	12	16.5	55
BC - 95	95	13.5	18	60
BC - 120	120	15	19.5	65
BC - 150	150	16.5	21	70
BC - 185	185	19	24	75
BC - 240	240	21	26	85
BC - 300	300	23.5	29.5	100
BC - 400	400	27	34	100

Butt Connectors Standard Type For Solid Conductors

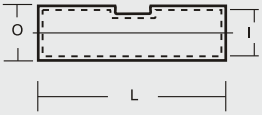
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Wire	Dimensions mm		
			I	O	L
BS - 1.5 / 2.5	1.5 / 2.5	1.38 / 1.78	1.9	3.9	25
BS - 4	4	2.25	2.4	4.4	25
BS - 6	6	2.75	3	5	25
BS - 10	10	3.55	4	6	25
BS - 16	16	4.50	5	8	35
BS - 25	25	5.65	6.2	10	40
BS - 35	35	6.70	7	10	40
BS - 50	50	8.00	8.5	12	70

Tubular Cable Connector MV Series

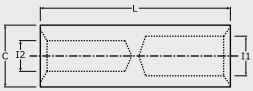
- Electrolytic high conductivity copper
- Electro tinned plated
- With inspection hole



Product Ref.	Conduct of Size	Dimensions		
		I	O	L
CMV 25	25	6.8	9	35
CMV 35	35	8.2	11	40
CMV 50	50	9.5	13	45
CMV 70	70	11.2	15	50
CMV 95	95	13.5	17.8	60
CMV 120	120	14.5	19.5	65
CMV 150	150	16.5	22	70
CMV 185	185	18	24	75
CMV 240	240	21	27.5	90
CMV 300	300	24	31	100
CMV 400	400	26.5	35	120
CMV 500	500	29.5	39	130
CMV 630	630	33	43	140
CMV 800	800	39	50.6	180
CMV 1000	1000	43	56.2	180

Copper Blocked Cnnector MV Series

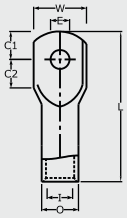
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref	Dimension			
	I1	I2	O	L
CMVBC 120/120	14.5	14.5	20.5	80
CMVBC 150/120	16.5	14.5	22	90
CMVBC 150/150	16.5	16.5	22	90
CMVBC 185/120	18	14.5	24	100
CMVBC 185/150	18	16.5	24	100
CMVBC 185/185	18	18	24	100
CMVBC 240/120	21.5	14.5	27.5	115
CMVBC 240/150	21.5	16.5	27.5	115
CMVBC 240/185	21.5	18	27.5	115
CMVBC 240/240	21.5	21.5	27.5	115
CMVBC 300/120	24.5	14.5	31	120
CMVBC 300/150	24.5	16.5	31	120
CMVBC 300/185	24.5	18	31	120
CMVBC 300/240	24.5	21.5	31	120
CMVBC 300/300	24.5	24.5	31	120
CMVBC 400/240	26	21.5	37	165
CMVBC 400/300	26	24.5	37	165

High Voltage Copper Terminals 33Kv

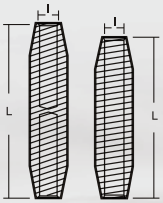
- Electrolytic high conductivity copper
- Electro tinned plated
- Copper finish on request



Product Ref	Conductor mm2 Size	Stud Hole E	W	I	O	C1	C2	L
CHVT 25-10	25	10.5	18	6.8	11	10	11	51
CHVT 25-12	25	13	21			10	11	51
CHVT 35-10	35	10.5	19	8.2	12.5	10	11	53
CHVT 35-12	35	13	19			10	11	53
CHVT 50-10	50	10.5	20	9	14	12	14	55
CHVT 50-12	50	13	20			12	14	55
CHVT 70-10	70	10.5	23	11.2	16	12	14	70
CHVT 70-12	70	13	23			12	14	70
CHVT 95-10	95	10.5	25	13.5	18	12	14	78
CHVT 95-12	95	13	25			12	14	78
CHVT 95-16	95	17	29			12	14	78
CHVT 120-12	120	13	31	15	21.5	12	14	82
CHVT 120-14	120	15	31			12	14	82
CHVT 120-16	120	17	31			12	14	82
CHVT 150-12	150	13	34	16.5	23	14	16	98
CHVT 150-14	150	15	34			14	16	98
CHVT 150-16	150	17	34			14	16	98
CHVT 185-12	185	13	37	17.5	24.5	16	16	101
CHVT 185-14	185	15	37			16	16	101
CHVT 185-16	185	17	37			16	16	101
CHVT 240-12	240	13	43	19.5	27	16	18	101
CHVT 240-16	240	17	43			16	18	101
CHVT 240-20	240	21	43			16	18	101
CHVT 300-12	300	13	46	23.5	32	16	20	112
CHVT 300-16	300	17	46			16	20	112
CHVT 300-20	300	21	46			16	20	112
CHVT 400-12	400	13	51	27	37	24	27	140
CHVT 400-16	400	17	51			24	27	140
CHVT 400-20	400	21	51			24	27	140
CHVT 500-12	500	13	56	30.5	42	24	27	147
CHVT 500-16	500	17	56			24	27	147
CHVT 500-20	500	21	56			24	27	147
CHVT 630-12	630	13	64	35	47	24	27	159
CHVT 630-16	630	17	64			24	27	159
CHVT 630-20	630	21	64			24	27	159

High Voltage Copper Through Connectors 33Kv

- Electrolytic high conductivity copper
- Electro tinned plated
- Copper finish on request

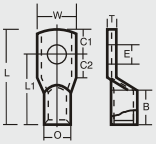


CCBC CCTC

Product Ref.	Dimensions mm I	L
CCBC / CCTC 25	6.8	60
CCBC / CCTC 35	8.2	60
CCBC / CCTC 50	8.7	60
CCBC / CCTC 50L	9.5	60
CCBC / CCTC 70	11	70
CCBC / CCTC 95	12	80
CCBC / CCTC 95L	13.5	80
CCBC / CCTC 150	15	80
CCBC / CCTC 150L	16.5	80
CCBC / CCTC 185	17	100
CCBC / CCTC 240	19.2	100
CCBC / CCTC 300	21.5	100
CCBC / CCTC 300L	23.7	100
CCBC / CCTC 400	27	120
CCBC / CCTC 500	30.3	118
CCBC / CCTC 630	33.4	130

Tubular Cable Lugs Soldering Type (BSS: 91)

- Electrolytic high conductivity copper
- Electro tinned plated

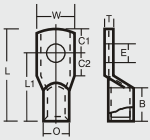


Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm								
		E	B	W	E	O	C1	C2	L1	L	T
ST 15-4.5	15	M4.5	10	9	5.1	6.2	5	6	19	24	1.4
ST 30-6	30	M6	13	12	6.5	8.0	6	10	27	33	1.6
ST 60-10	60	M10	14	17	10.8	11.3	9	13	35	44	1.8
ST 60-8	60	M8	14	17	8.2	11.3	9	13	35	44	1.8
ST 100-10	100	M10	19	21	10.8	13.9	13	14	42	55	2.0
ST 150-12	150	M12	22	25	13	17.1	14	16	48	62	2.8
ST 200-12	200	M12	29	29	13	19.9	17	21	61	78	3.2
ST 300-14	300	M14	32	36	15	24.2	20	21	66	86	3.6
ST 300-10	300	M10	32	36	10.8	24.2	20	21	66	86	3.6
ST 400-14	400	M14	38	41	15	27.8	24	24	76	100	4
ST 500-18	500	M18	44	46	19.5	31.4	27	24	84	111	5.2

Tubular Cable Lugs Soldering Type (BSS: 91)

As per cable size

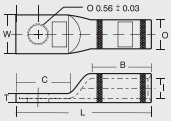
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm								
		E	B	W	E	O	C1	C2	L1	L	T
ST 6-4.5	6	M 4.5	10	9	5.5	6	5	6	19	24	1.6
ST 16-6	16	M 6	13	11	6.6	8	6	7	25	31	2
ST 25-13	25	M 8	13	14	9	10	10	12	31	41	2.4
ST 35-16	35	M 8	16	17	9	12	10	12	36	46	2.4
ST 70-10	70	M 10	19	23	11	16.6	13	14	42	55	4.6
ST 95-12	95	M 12	22	28	14	19.5	14	16	48	62	5.2
ST 120-12	120	M 12	29	32	14	22.5	18	20	60	78	5.8
ST 185-12	185	M 12	32	40	14	27.8	20	21	66	86	7.2
ST 240-16	240	M 16	38	45	18	31	24	24	76	100	7.2
ST 300-16	300	M 16	44	49	18	34.2	27	24	84	111	8.1
ST 500-20	500	M 20	48	59	22	40.9	30	25	91	121	9.2
ST 625-24	625	M 24	56	67	26	46.1	34	29	105	139	9.6
ST 625	625		56	67	--	46.1	34	29	105	139	9.6

Compression Terminal Copper Short Barrel One Hole (AWG)

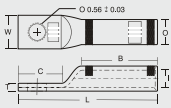
- ETP copper alloy c11000 per ASTM SPEC B188 copper tube
- Electro tinned plated



Product Ref.	Conductor Size	Colour Code	Dimensions inches						
			O	I	B	W	T	C	L
CAT 1000-1	1000 MCM	WHITE	1.504	1.170	1.88	2.16	0.32	2.12	4.90
CAT 750 -1	750 MCM	BLACK	1.302	1.030	1.44	1.88	0.27	1.94	4.04
CAT 500 -1	500 MCM	BROWN	1.064	0.830	1.32	1.54	0.23	1.30	3.18
CAT 350 -1	350 MCM	RED	0.877	0.700	0.94	1.27	0.18	1.08	2.50
CAT 250 -1	250 MCM	YELLOW	0.753	0.594	0.88	1.11	0.16	1.08	2.40
CAT 4/0 -1	4 / 0 STR	PURPLE	0.691	0.545	0.75	1.02	0.14	1.08	2.20
CAT 3/0 -1	3 / 0 STR	ORANGE	0.618	0.487	0.75	0.91	0.13	1.08	2.20
CAT 2/0 -1	2 / 0 STR	BLACK	0.563	0.446	0.72	0.83	0.12	0.83	1.90
CAT 1/0 -1	1 / 0 STR	PINK	0.515	0.391	0.72	0.88	0.09	1.08	2.06
CAT 1/0 -1	1 / 0 STR	PINK	0.515	0.391	0.72	0.74	0.12	0.70	1.70
CAT 1 -1	1 STR	GREEN	0.462	0.354	0.72	0.68	0.10	0.56	1.56
CAT 2 -1	2 STR	BROWN	0.418	0.307	0.72	0.61	0.11	0.70	1.66
CAT 3 -1	3 STR	WHITE	0.377	0.284	0.72	0.57	0.09	0.70	1.64
CAT 4 -1	4 STR	GRAY	0.340	0.248	0.72	0.50	0.09	0.56	1.50
CAT 6 -1	6 STR	BLUE	0.292	0.195	0.72	0.45	0.08	0.56	1.50

Compression Terminal Copper Long Barrel One Hole (AWG)

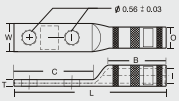
- ETP copper alloy c11000 per ASTM SPEC B188 copper tube
- Electro tinned plated



Product Ref.	Conductor Size	Colour Code	Dimensions inches						
			O	I	B	W	T	C	L
CAT 1000-2	1000 MCM	WHITE	1.504	1.170	2.94	2.17	0.32	2.12	6.00
CAT 750 -2	750 MCM	BLACK	1.302	1.030	2.81	1.89	0.27	1.94	5.44
CAT 600 -2	600 MCM	GREEN	1.185	0.920	2.63	1.69	0.27	1.75	5.15
CAT 500 -2	500 MCM	BROWN	1.064	0.830	2.19	1.54	0.23	1.30	4.20
CAT 350 -2	500 MCM	BROWN	1.064	0.830	2.19	1.52	0.23	1.50	4.36
CAT 400 -2	400 MCM	BLUE	0.953	0.758	2.06	1.38	0.19	1.50	4.20
CAT 350 -2	350 MCM	RED	0.877	0.700	1.94	1.28	0.18	1.12	3.65
CAT 300 -2	300 MCM	WHITE	0.815	0.649	2.00	1.19	0.16	1.12	3.56
CAT 250 -2	250 MCM	YELLOW	0.753	0.594	1.63	1.09	0.16	1.12	3.18
CAT 4/0 -2	4 / 0 STR	PURPLE	0.691	0.545	1.63	1.00	0.14	1.08	3.00
CAT 3/0 -2	3 / 0 STR	ORANGE	0.618	0.487	1.50	0.91	0.13	1.08	2.87
CAT 2/0 -2	2 / 0 STR	BLACK	0.563	0.446	1.53	0.82	0.12	0.88	2.72
CAT 1/0 -2	1 / 0 STR	PINK	0.515	0.391	1.41	0.75	0.11	1.08	2.71
CAT 1/0 -2	1 / 0 STR	PINK	0.515	0.391	1.41	0.74	0.12	0.75	2.42
CAT 1 -2	1 STR	GREEN	0.462	0.354	1.41	0.68	0.10	0.75	2.42
CAT 2 -2	2 STR	BROWN	0.416	0.307	1.28	0.60	0.11	0.75	2.25
CAT 3 -2	3 STR	WHITE	0.377	0.284	1.22	0.57	0.09	0.70	2.25
CAT 4 -2	4 STR	GRAY	0.340	0.248	1.16	0.50	0.09	0.56	1.92
CAT 6 -2	6 STR	BLUE	0.292	0.195	1.16	0.45	0.08	0.56	1.92
CAT 4 -2	4 STR	GRAY	0.340	0.248	1.16	0.50	0.09	0.88	2.25

Compression Terminal Copper Long Barrel Two Hole (AWG)

- ETP copper alloy c11000 per ASTM SPEC B188 copper tube
- Electro tinned plated



Product Ref.	Conductor Size	Colour Code	Dimensions inches						
			O	I	B	W	T	C	L
CAT 1000-3	1000 MCM	WHITE	1.504	1.170	2.94	2.16	0.32	3.00	6.84
CAT 750 -3	750 MCM	BLACK	1.302	1.030	2.81	1.88	0.27	3.00	6.46
CAT 600 -3	600 MCM	GREEN	1.185	0.920	2.83	1.71	0.27	3.00	6.20
CAT 500 -3	500 MCM	BROWN	1.064	0.830	2.19	1.53	0.23	3.00	5.74
CAT 350 -3	350 MCM	RED	0.877	0.700	1.94	1.27	0.18	3.00	5.44
CAT 300 -3	300 STR	WHITE	0.815	0.649	2.00	1.18	0.16	3.00	5.44
CAT 250 -3	250 STR	YELLOW	0.753	0.594	1.83	1.09	0.16	3.00	5.04
CAT 4/0 -3	4 / 0 STR	PURPLE	0.691	0.545	1.83	1.00	0.14	3.00	5.00
CAT 3/0 -3	3 / 0 STR	ORANGE	0.618	0.487	1.50	0.90	0.12	3.00	4.84
CAT 2/0 -3	2 / 0 STR	BLACK	0.583	0.448	1.53	0.82	0.12	3.00	4.84
CAT 1/0 -3	1 / 0 STR	PINK	0.515	0.391	1.41	0.75	0.12	3.00	4.66
CAT 1 -3	1 STR	GREEN	0.462	0.354	1.41	0.80	0.09	3.00	4.66
CAT 2 -3	2 STR	BROWN	0.418	0.307	1.28	0.82	0.11	3.00	4.52
CAT 3 -3	3 STR	WHITE	0.371	0.289	1.22	0.83	0.11	3.00	4.44
CAT 4 -3	4 STR	GRAY	0.340	0.248	1.18	0.83	0.11	3.00	4.38

Copper Butt Splices Short Barrel (AWG)

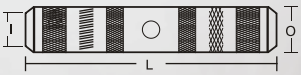
- ETP copper alloy c11000 per ASTM SPEC B188 copper tube
- Electro tinned plated

Product Ref.	Conductor Size	Colour Code	Die Index	Dimensions inches		
				O	I	L
CAS 1000-1	1000 MCM	WHITE	27	1.504	1.170	4.28
CAS 750 -1	750 MCM	BLACK	24	1.302	1.030	3.75
CAS 600 -1	600 MCM	GREEN	22 OR 472	1.185	0.920	3.25
CAS 500 -1	500 MCM	BROWN	20 OR 299	1.064	0.830	3.15
CAS 400 -1	400 MCM	BLUE	19 OR 470	0.953	0.758	2.75
CAS 350 -1	350 MCM	RED	18 OR 324	0.877	0.700	2.62
CAS 300 -1	300 MCM	WHITE	17 OR 298	0.815	0.649	2.50
CAS 250 -1	250 MCM	YELLOW	16	0.753	0.594	2.50
CAS 4/0 -1	4 / 0 STR	PURPLE	15	0.691	0.545	2.32
CAS 3/0 -1	3 / 0 STR	ORANGE	14	0.618	0.487	2.32
CAS 2/0 -1	2 / 0 STR	BLACK	13	0.563	0.446	2.18
CAS 1/0 -1	1 / 0 STR	PINK	12 OR 348	0.515	0.391	2.09
CAS 1 -1	1 STR	GREEN	11 OR 375	0.462	0.354	2.09
CAS 2 -1	2 STR	BROWN	10	0.416	0.307	2.09
CAS 3 -1	3 STR	WHITE	9	0.377	0.284	2.09
CAT 4 -1	4 STR	GRAY	8 OR 346	0.340	0.248	2.00
CAT 6 -1	6 STR	BLUE	7 OR 374	0.292	0.195	1.75

Copper Butt Splices Long Barrel (AWG)

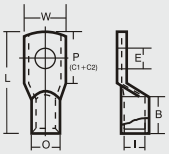
Product Ref.	Conductor Size	Colour Code	Die Index	Dimensions inches		
				O	I	L
CAS 1000-2	1000 MCM	WHITE	27	1.504	1.170	6.12
CAS 750 -2	750 MCM	BLACK	24	1.302	1.030	5.88
CAS 600 -2	600 MCM	GREEN	22 OR 472	1.185	0.920	5.50
CAS 500 -2	500 MCM	BROWN	20 OR 299	1.064	0.830	4.62
CAS 400 -2	400 MCM	BLUE	19 OR 470	0.953	0.758	4.38
CAS 350 -2	350 MCM	RED	18 OR 324	0.877	0.700	4.13
CAS 300 -2	300 MCM	WHITE	17 OR 298	0.815	0.649	4.13
CAS 250 -2	250 MCM	YELLOW	16	0.753	0.594	3.39
CAS 4/0 -2	4 / 0 STR	PURPLE	15	0.691	0.545	3.39
CAS 3/0 -2	3 / 0 STR	ORANGE	14	0.618	0.487	3.15
CAS 2/0 -2	2 / 0 STR	BLACK	13	0.563	0.446	3.15
CAS 1/0 -2	1 / 0 STR	PINK	12 OR 348	0.515	0.391	2.91
CAS 1 -2	1 STR	GREEN	11 OR 375	0.462	0.354	2.91
CAS 2 -2	2 STR	BROWN	10	0.416	0.307	2.65
CAS 3 -2	3 STR	WHITE	9	0.377	0.284	2.53
CAT 4 -2	4 STR	GRAY	8 OR 346	0.340	0.248	2.41
CAT 6 -6	6 STR	BLUE	7 OR 374	0.292	0.195	2.41

- ETP copper alloy c11000 per ASTM SPEC B188 copper tube
- Electro tinned plated



Russian (Gost Type) Tubular Cable Lugs

- Electrolytic high conductivity copper
- Electro tinned plated



CGR

CGR-L

Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm						
		E	I	O	W	B	P	L	L
CGR / CRG-CL 2.5-3-2.6	2.5	M3	2.6	5.0	7.0	10.0	57.2	27.2	20
CGR-2.5-4-2.6	2.5	M4	2.6	5.0	8.0	10.0	57.2	27.2	
CGR-2.5-5-2.6	2.5	M5	2.6	5.0	10.0	10.0	57.2	27.2	
CGR-2.5-6-2.6	2.5	M6	2.6	5.0	12.0	10.0	60.2	29.2	
CGR / CRG-CL 4-4-3	4	M4	3.0	5.0	8.0	12.0	65.2	31.2	30
CGR-4-5-3	4	M5	3.0	5.0	10.0	12.0	65.2	31.2	
CGR-4-6-3	4	M6	3.0	5.0	12.0	12.0	65.2	31.2	
CGR / CGR-CL 6-4-4	6	M4	4.0	6.0	8.0	12.0	65.2	31.2	30
CGR-6-5-4	6	M5	4.0	6.0	10.0	12.0	65.2	31.2	
CGR-6-6-4	6	M6	4.0	6.0	12.0	12.0	65.2	31.2	
CGR / CGR-CL 10-5-5	10	M5	5.0	8.0	11.0	14.0	81.7	39.2	30
CGR-10-6-5	10	M6	5.0	8.0	14.0	14.0	81.7	39.2	
CGR-10-8-5	10	M8	5.0	8.0	16.0	14.0	81.7	39.2	
CGR / CGR-CL 16-6-6	16	M6	6.0	9.0	14.0	14.0	81.5	39.2	30
CGR-16-8-6	16	M8	6.0	9.0	16.0	14.0	81.5	39.2	
CGR-25-6-7	25	M6	7.0	10.0	15.0	20.0	92.2	44.2	
CGR-25-8-7	25	M8	7.0	10.0	16.0	20.0	92.2	44.2	
CGR / CGR-CL 25-6-8	25	M6	8.0	11.0	16.0	20.0	102.2	49.2	40
CGR-25-8-8	25	M8	8.0	11.0	16.0	20.0	102.2	49.2	
CGR-25-10-8	25	M10	8.0	11.0	20.0	20.0	102.2	49.2	
CGR-35-8-9	35	M8	9.0	12.0	18.0	24.0	121.7	58.7	
CGR-35-10-9	35	M10	9.0	12.0	20.0	24.0	121.7	58.7	
CGR-35-12-9	35	M12	9.0	12.0	22.0	24.0	121.7	58.7	
CGR / CGR-CL 35-8-10	35	M8	10.0	13.0	20.0	24.0	128.2	61.7	50
CGR-35-10-10	35	M10	10.0	13.0	20.0	24.0	128.2	61.7	
CGR-35-12-10	35	M12	10.0	13.0	22.0	24.0	128.2	61.7	
CGR-50-8-11	50	M8	11.0	14.0	20.0	24.0	127.7	61.7	
CGR / CGR-CL 50-10-11	50	M10	11.0	14.0	22.0	24.0	127.7	61.7	50
CGR-50-12-11	50	M12	11.0	14.0	22.0	24.0	127.7	61.7	
CGR-50-8-12	50	M8	12.0	15.0	22.0	24.0	132.2	63.7	
CGR-50-10-12	50	M10	12.0	15.0	22.0	24.0	132.2	63.7	
CGR-50-12-12	50	M12	12.0	15.0	24.0	24.0	132.2	63.7	
CGR / CGR-CL 70-10-13	70	M10	13.0	16.0	24.0	26.0	132.2	63.7	53
CGR-70-12-13	70	M12	13.0	16.0	24.0	26.0	132.2	63.7	
CGR-95-10-15	95	M10	15.0	19.0	28.0	32.0	152.7	73.7	
CGR / CGR-CL 95-12-15	95	M12	15.0	19.0	28.0	32.0	152.7	73.7	67
CGR-95-10-16	95	M10	16.0	20.0	30.0	32.0	152.7	73.7	
CGR-95-12-16	95	M12	16.0	20.0	30.0	32.0	152.7	73.7	
CGR-120-12-17	120	M12	17.0	22.0	34.0	32.0	164.5	79.3	
CGR / CGR-CL 120-16-17	120	M16	17.0	22.0	34.0	32.0	164.5	79.3	67
CGR-120-12-18	120	M12	18.0	24.0	35.0	34.0	173.5	83.3	
CGR-120-16-18	120	M16	18.0	24.0	35.0	34.0	173.5	83.3	
CGR-150-12-19	150	M12	19.0	25.0	36.0	34.0	183.0	88.3	
CGR-150 / CGR-CL 16-19	150	M16	19.0	25.0	36.0	34.0	183.0	88.3	67
CGR-150-12-20	150	M12	20.0	26.0	38.0	34.0	183.0	88.3	
CGR-150-16-20	150	M16	20.0	26.0	38.0	34.0	183.0	88.3	
CGR / CGR-CL 185-12-21	185	M12	21.0	27.0	40.0	38.0	194.0	93.3	75
CGR-185-16-21	185	M16	21.0	27.0	40.0	38.0	194.0	93.3	
CGR-185-20-21	185	M20	21.0	27.0	40.0	38.0	194.0	93.3	
CGR-185-16-23	185	M16	23.0	30.0	40.0	38.0	215.0	103.3	
CGR-185-20-23	185	M20	23.0	30.0	48.0	38.0	215.0	103.3	
CGR-240-16-24	240	M16	24.0	32.0	48.0	38.0	215.0	103.3	
CGR / CGR-CL 240-20-24	240	M20	24.0	32.0	48.0	38.0	215.0	103.3	75

Copper Forged Lugs

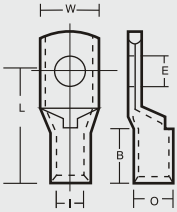
- Electrolytic high conductivity copper
- With/without electro tin plating

Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm			
		E	I	O	L1	W
CFC-16/8	16	M 8	5.5	8.5	36.0	20
CFC-16/10		M 10				
CFC-16/12		M 12				
CFC-25/8	25	M 8	7.0	10.0	38.5	20
CFC-25/10		M 10				24
CFC-25/12		M 12				20
CFC-35/8	35	M 8	8.2	12.5	40.0	25
CFC-35/10		M 10				
CFC-35/12		M 12				
CFC-50/8	50	M 8	10.0	14.5	48.0	25
CFC-50/10		M 10				
CFC-50/12		M 12				
CFC-70/10	70	M 10	11.5	16.5	49.0	25
CFC-70/12		M 12			53.0	30
CFC-70/16		M 16				
CFC-95/10	95	M 10	13.5	19.0	56.0	25
CFC-95/12		M 12				
CFC-120/12	120	M 12	15.5	21.0	62.0	30
CFC-120/16		M 16				
CFC-150/12	150	M 12	17.0	23.5	63.0	30
CFC-150/16		M 16				
CFC-185/12	185	M 12	19.0	25.5	69.0	30
CFC-185/16		M 16				
CFC-240/12	240	M 12	21.5	29.0	74.0	38
CFC-240/16		M 16				
CFC-240/20		M 20				
CFC-300/16	300	M 16	24.5	32.0	85.0	38
CFC-300/20		M 20				
CFC-400/16	400	M 16	26.0	38.5	106.0	38
CFC-400/20		M 20				
CFC-500/16	500	M 16	29.0	42.0	106.0	38
CFC-500/20		M 20				

Stainless Steel Tubular Cable Lugs

For food-industry compliant

- Material stainless steel V2a
- Heat resistant up to 400°C
- Ring type

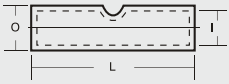


Product Ref.	Conductor Size mm²	Stud Hole E	I	O	L	B
CSST	0.5-1	M 4	1.6	3.2	13.0	6.0
CSST		M 5	1.6	3.2	14.0	6.0
CSST	1.5-2.5	M 4	3.0	5.0	17.0	8.0
CSST		M 5	3.0	5.0	17.0	8.0
CSST		M 6	3.0	5.0	19.0	8.0v
CSST	4 - 6	M 4	4.0	6.0	18.0	9.0
CSST		M 5	4.0	6.0	19.0	9.0
CSST		M 6	4.0	6.0	19.0	9.0
CSST	10	M 5	5.0	8.0	22.0	10.0
CSST		M 6	5.0	8.0	22.0	10.0
CSST		M 8	5.0	8.0	25.0	10.0
CSST	16	M 5	6.0	8.0	28.0	13.0
CSST		M 6	6.0	8.0	28.0	13.0
CSST		M 8	6.0	8.0	29.0	13.0
CSST	25	M 6	7.0	10.0	30.0	15.0
CSST		M 8	7.0	10.0	32.0	15.0
CSST	35	M 6	9.0	12.0	32.0	17.0
CSST		M 8	9.0	12.0	35.0	17.0
CSST	50	M 6	10.0	14.0	37.0	19.0
CSST		M 8	10.0	14.0	37.0	19.0
CSST		M 10	10.0	14.0	39.0	19.0
CSST		M 12	10.0	14.0	43.0	19.0
CSST	70	M 8	12.0	16.0	43.0	21.0
CSST		M 10	12.0	16.0	44.0	21.0
CSST		M 12	12.0	16.0	46.0	21.0
CSST		M 16	12.0	16.0	46.0	21.0
CSST	95	M 8	14.0	18.0	48.0	25.0
CSST		M 10	14.0	18.0	48.0	25.0
CSST		M 12	14.0	18.0	49.0	25.0

Acid and rust-resistant stainless steel tubular cable lugs and connectors, heat resistance to 400°C

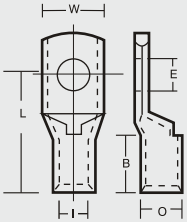
Stainless Steel Butt Connectors

- Material stainless steel V2a
- Heat resistant up to 400°C
- Ring type



Product Ref.	Conductor Size mm²	I	O	L
CSSC	0.5-1	1.6	3.2	25.0
CSSC	1.5-2.5	3.0	5.0	25.0
CSSC	4 - 6	4.0	6.0	25.0
CSSC	10	5.0	8.0	25.0
CSSC	16	6.0	8.0	30.0
CSSC	25	7.0	10.0	35.0
CSSC	35	9.0	12.0	40.0
CSSC	50	10.0	14.0	45.0
CSSC	70	12.0	16.0	50.0
CSSC	95	14.0	18.0	55.0

Nickel
Tubular Cable Lugs



Product Ref.	Conductor Size mm²	Stud Hole	I	O	L	E	B
CNPT	0.5-1	M 4	1.6	3.2	13.0	4.3	6.0
CNPT		M 5	1.6	3.2	14.0	5.3	6.0
CNPT	1.5-2.5	M 4	2.3	3.9	13.0	4.3	6.0
CNPT		M 5	2.3	3.9	14.0	5.5	6.0
CNPT		M 6	2.3	3.9	16.0	6.5	6.0
CNPT	4 - 6	M 4	3.6	5.6	18.0	4.3	9.0
CNPT		M 5	3.6	5.6	19.0	5.5	9.0
CNPT		M 6	3.6	5.6	19.0	6.5	9.0
CNPT	10	M 5	4.5	6.5	21.0	5.5	10.0
CNPT		M 6	4.5	6.5	22.0	6.5	10.0
CNPT	16	M 5	5.5	7.5	26.0	5.5	13.0
CNPT		M 6	5.5	7.5	27.0	6.5	13.0
CNPT		M 8	5.5	7.5	29.0	8.5	13.0
CNPT	25	M 6	7.0	10.0	30.0	6.5	15.0
CNPT		M 8	7.0	10.0	32.0	8.5	15.0
CNPT	35	M 6	8.5	12.0	32.0	6.5	17.0
CNPT		M 8	8.5	12.0	34.0	8.5	17.0
CNPT	50	M 8	10.0	14.0	37.0	8.5	19.0
CNPT		M 10	10.0	14.0	39.0	10.5	19.0
CNPT	70	M 10	12.0	16.5	44.0	10.5	21.0
CNPT		M 12	12.0	16.5	46.0	13.0	21.0
CNPT	95	M 10	13.5	18.0	48.0	10.5	25.0
CNPT		M 12	13.5	18.0	49.0	13.0	25.0

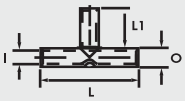
- Material high grade nickel
- Heat resistant up to 650 °C
- Ring type

Nickel tubular cable lugs and connectors, heat resistant to 650 °C.

- Most suitable for use in furnaces.
- It retain there conductivity and malfunctions are excluded.
- Reliable electrical connection in aggressive environments.

T - Connectors

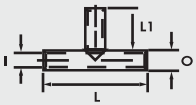
- Standard type
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Cross Section mm²	I	O	L	L1
CTC 1.5	1.5	1.8	3.3	30	12
CTC 2.5	2.5	2.3	4.2	30	12
CTC 4	4	3.0	5.0	30	12
CTC 6	6	4.0	6.0	35	14
CTC 10	10	4.5	7.0	35	14
CTC 16	16	5.5	8.5	50	21
CTC 25	25	7.0	10.0	55	23
CTC 35	35	8.5	12.0	70	30
CTC 50	50	10.0	14.0	80	34
CTC 70	70	12.0	16.5	85	35
CTC 95	95	13.5	18.0	90	36
CTC 120	120	15.0	19.5	95	38
CTC 150	150	16.5	21.0	110	44
CTC 185	185	19.0	24.0	115	45
CTC 240	240	21.0	26.0	130	52

T - Connectors

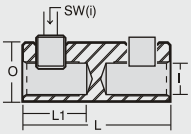
- Special type, for solid conductor
- Electrolytic high conductivity copper
- Electro tinned plated

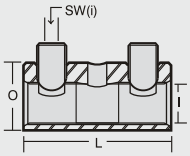


Product Ref.	Cross Section mm²	I	O	L	L1
CTCS 1.5	1.5	1.9	3.9	30	12
CTCS 2.5	2.5	1.9	3.9	30	12
CTCS 4	4	2.4	4.4	30	12
CTCS 6	6	3.0	5.0	30	12
CTCS 10	10	4.0	6.0	35	14
CTCS 16	16	5.0	8.0	35	14
CTCS 25	25	6.2	10.0	50	21
CTCS 35	35	7.0	10.0	55	23
CTCS 50	50	8.5	12.0	76	32

Screw Connectors For Shielded Copper Wires

- Material high resistant copper alloy
- with inspection hole
- Surface tinned plated
- Bolts stainless steel, tinned plated

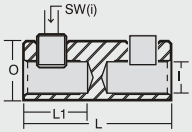


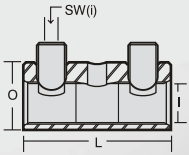


Product Ref.	Cross section mm2			Data on Bolts				
	rm	re	L	O	No	SW	Thread DIN 13	Md Nm
CSMC	6 - 25	6 - 35	40	14	2	4	M8 x 1	10

Screw Connectors For Street Lighting

- Material brass cuzn
- With inspection hole
- Surface tinned plated
- Bolts stainless steel, tinned plated



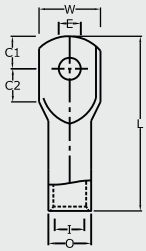


Product Ref.	Cross section mm2			Data on Bolts			
	rm	re	L	O	No	SW	Thread DIN 13
CSMC	2.5 - 10	2.5 - 16	30	10	2	2.5	M5 x 1.5
CSMC	2.5 - 10	2.5 - 16	30	10	2	2.5	M5 x 1.5

Aluminum Cable Lugs Standard Type

For Aluminum Conductors DIN: 48201 and Pre-rounded Sector Shaped Conductors

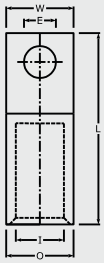
- Electrolytic high conductivity aluminum



Product Ref.	Conductor Size mm²	Stud Hole E	W	I	O	C1	C2	L
AD10-6	10	6.4	11	4.6	7	6.5	7.5	33
AD16-6	16	6.4	21	6	12	11	13	77
AD16-8	16	8.4	21			11	13	77
AD25-6	25	6.4	21	7	12	11	13	77
AD25-8	25	8.4	21			11	13	77
AD35-8	35	8.4	23	8	14	11	13	77
AD35-10	35	10.5	23			11	13	77
AD50-10	50	10.5	26	10	16	11	13	91
AD50-12	50	13	26			14	16	91
AD70-10	70	10.5	27	11.5	18.6	14	16	91
AD70-12	70	13	27			14	16	91
AD95-10	95	10.5	27	13.5	22	14	16	91
AD95-12	95	13	27			14	16	91
AD120-10	120	10.5	35	15	23	14	16	115
AD120-12	120	13	35			14	16	115
AD150-12	150	13	35	16.5	``	14	16	115
AD150-14	150	15	35			14	16	115
AD185-12	185	13	42	18.5	28.6	14	20	122
AD185-16	185	17	42			14	20	122
AD240-12	240	13	44	21	32	16	22	122
AD240-16	240	17	44			16	22	122
AD300-12	300	13	47	22.5	34	16	22	130
AD300-16	300	17	47			16	22	130
AD400-16	400	17	51	26	38	18	22	150

Aluminum Forged Lugs
DIN: 48201

- Electrolytic high conductivity aluminum
- Electro tinned plated

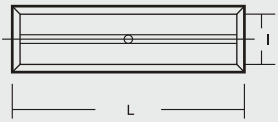


Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm			
		E	I	O	L	W
CAL-16/8	16	M 8	5.4	12	50.0	20
CAL-16/10		M 10				
CAL-25/8	25	M 8	6.8	12	50.0	20
CAL-25/10		M 10				25
CAL-25/12		M 12				25
CAL-35/8	35	M 8	8.0	14	62.0	25
CAL-35/10		M 10				
CAL-35/12		M 12				
CAL-50/8	50	M 8	9.8	16	62.0	25
CAL-50/10		M 10				
CAL-50/12		M 12				
CAL-70/8	70	M 8	11.2	18	72.0	25
CAL-70/10		M 10				
CAL-70/12		M 12				
CAL-95/8	95	M 8	13.2	22	75	25
CAL-95/10		M 10			75	25
CAL-95/12		M 12			75	25
CAL-95/16		M 16			80	30
CAL-120/10	120	M 10	14.7	22	80	30
CAL-120/12		M 12				
CAL-120/16		M16				
CAL-150/10	150	M 10	16.3	25	90	30
CAL-150/12		M 12				
CAL-150/16		M 16				
CAL-185/10	185	M 10	18.3	28	91	30
CAL-185/12		M 12				
CAL-185/16		M 16				
CAL-240/12	240	M 12	21.0	32	103	38
CAL-240/16		M 16				
CAL-240/20		M 20				
CAL-300/12	300	M 12	23.3	34	103	38
CAL-300/16		M 16				
CAL-300/20		M 20				
CAL-400/12	400	M 12	26.0	38	116	38
CAL-400/16		M 16				
CAL-400/20		M 20				
CAL-500/12	500	M 12	29.0	44	122	44
CAL-500/16		M 16				
CAL-500/20		M 20				
CAL-400A/16	400	M 16	28.0	42	116	38
CAL-400A/20		M 20				
CAL-500A/16	500	M 16	31.0	46	122	44
CAL-500A/20		M 20				

Aluminum Connectors Non Tension DIN: 46267

For Aluminum Conductors DIN: 48201 and Pre-rounded Sector Shaped Conductors

- Electrolytic high conductivity aluminum



Product Ref.	Conductor Size mm²		Dimension mm	
			I	L
AT 10	10	--	5	55
AT 16	16	25	5.5	55
AT 25	25	35	6.8	70
AT 35	35	50	8	85
AT 50	50	70	9.8	85
AT 70	70	95	11.2	105
AT 95	95	120	13.2	105
AT 120	120	150	14.7	105
AT 150	150	185	16.3	125
AT 185	185	240	18.3	125
AT 240	240	300	21	145
AT 300	300	--	23.3	145
AT 400	400	--	26	210
AT 500	500	--	29	210

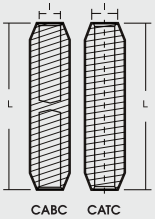
Core Sector Shaped Conductor

Angle 120 degrees

- Aluminum and copper

Aluminum Through Connectors

- Electrolytic high conductivity aluminum



Product Ref	Dimensions mm	
	I	L
CABC / CATC 16	5.5	90.5
CABC / CATC 25	6.5	90.5
CABC / CATC 35	8	90.5
CABC / CATC 50	9	106.5
CABC / CATC 70	11	106.5
CABC / CATC 95	12.5	106.5
CABC / CATC 120	13.7	133
CABC / CATC 150	15.5	133
CABC / CATC 185	17	143.5
CABC / CATC 240	19.5	143.5
CABC / CATC 300	22.5	144.5

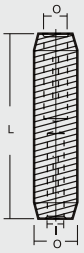
Aluminum Reducer Compression Connector Non Tension

- Electrolytic high conductivity aluminum

Product Ref.	Dimensions mm			
	I1	I2	L	O
CARC 50-25	9	6,5	106.5	20
CARC 50-35	9	8	106.5	20
CARC 70-35	11	8	106.5	20
CARC 70-50	11	9	106.5	20
CARC 95-50	12.5	9	109.4	20
CARC 95-70	12.5	11	106.5	20
CARC 120-70	13.7	11	133	25
CARC 120-95	13.7	12.5	133	25
CARC 150-70	15.5	11	133	25
CARC 150-95	15.5	12.5	134.4	25
CARC 150-120	15.5	13.7	133	25
CARC 185-120	17	13.7	143.5	32
CARC 185-150	17	15.5	143.5	32
CARC 240-150	19.5	15.5	145.6	32
CARC 240-185	19.5	17	143.5	32
CARC 300-185	22.5	17	144.5	34
CARC 300-240	22.5	19.5	144.5	34

Aluminum Reduction Compression Joint NT/FT

- Electrolytic high conductivity aluminum



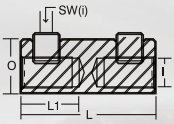
CANT CAFT

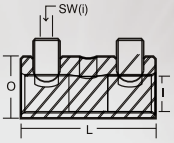
Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
CANT / CAFT-14	14	6.8	8.0	95
CANT / CAFT-16	16	6.8	9.8	95
CANT / CAFT-16	16	8.0	9.8	95
CANT / CAFT-18	18	6.8	11.2	100
CANT / CAFT-18	18	8.0	11.2	100
CANT / CAFT-18	18	9.8	11.2	100
CANT / CAFT-22	22	6.8	13.2	105
CANT / CAFT-22	22	8.0	13.2	105
CANT / CAFT-22	22	9.8	13.2	105
CANT / CAFT-22	22	11.2	13.2	105
CANT / CAFT-22	22	6.8	14.7	110
CANT / CAFT-22	22	8.0	14.7	110
CANT / CAFT-22	22	9.8	14.7	110
CANT / CAFT-22	22	11.2	14.7	110
CANT / CAFT-22	22	13.2	14.7	110
CANT / CAFT-25	25	6.8	16.3	110
CANT / CAFT-25	25	8.0	16.3	110
CANT / CAFT-25	25	9.8	16.3	110
CANT / CAFT-25	25	11.2	16.3	110
CANT / CAFT-25	25	13.2	16.3	110
CANT / CAFT-25	25	14.7	16.3	110
CANT / CAFT-28	28	6.8	18.3	130
CANT / CAFT-28	28	8.0	18.3	130
CANT / CAFT-28	28	9.8	18.3	130
CANT / CAFT-28	28	11.2	18.3	130
CANT / CAFT-28	28	13.2	18.3	130
CANT / CAFT-28	28	14.7	18.3	130
CANT / CAFT-28	28	16.3	18.3	130
CANT / CAFT-32	32	6.8	21.0	130
CANT / CAFT-32	32	8.0	21.0	130
CANT / CAFT-32	32	9.8	21.0	130
CANT / CAFT-32	32	11.2	21.0	130
CANT / CAFT-32	32	13.2	21.0	130
CANT / CAFT-32	32	14.7	21.0	130
CANT / CAFT-32	32	16.3	21.0	130
CANT / CAFT-32	32	18.3	21.0	130
CANT / CAFT-34	34	16.3	23.0	135
CANT / CANT-34	34	18.3	23.0	135
CANT / CAFT-34	34	21.0	23.0	135
CANT / CAFT-38	38	18.3	26.0	165
CANT / CAFT-38	38	21.0	26.0	165
CANT / CAFT-38	38	23.3	26.0	165

Aluminum Screw Connector

Cross Section mm2	Connector Barrel								Contact Screw					
					Dimentions (mm)									
	straight-through	with oil-stop	uncoated	tin-plated	O	I	L	L1	socket screw	shear-head screw removable	shear-head screw unremovable	number	SW(i) (DIN 475)	torque (Nm)
10 RE-70 RE	•		•		22	12.5	57				•	2	5	15
10 RM-70 RM		•	•		22	12.5	57	24	•			2	5	15
		•		•	22	12.5	57	24			•	2	5	15
16-50 RE	•		•		25	14.4	55		•			2	5	20
16-95 RM	•		•		25	14.4	55			•		2	5	20
050-70 SE/	•		•		25	14.4	55				•	2	5	20
95 SE (90)	•		•		25	14.4	92		•			4	5	20
35-70 SM/	•				25	14.4	92			•		4	5	20
95 SM(r)	•			•	25	14.4	55		•			2	5	20
	•			•	25	14.4	55			•		2	5	20
		•	•		25	14.4	55	22	•			2	5	20
		•	•		25	14.4	55	22		•		2	5	20
		•		•	25	14.4	55	22	•			2	5	20
		•		•	25	14.4	55	22		•		2	5	20
		•		•	25	14.4	55	22			•	2	5	20
35-150 RE	•		•		28	16.9	70		•			2	6	25
35-150 RE	•		•		28	16.9	70				•	2	6	25
050-120 SE/		•	•		28	16.9	70	31	•			2	6	25
150 SE(90)		•	•		28	16.9	70	31			•	2	6	25
		•		•	28	16.9	70	31	•			2	6	25
		•		•	28	16.9	70	31			•	2	6	25

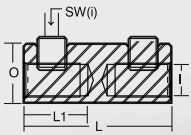
Introducing
Shear Head bolted connectors.
Supplied as per requirement.

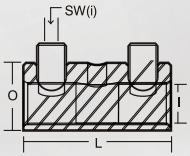




Aluminum Screw Connector Machined Components

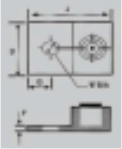
Cross Section mm2	Connector Barrel								Contact Screw					
					Dimentions (mm)									
	straight-through	with oil-stop	uncoated	tin-plated	O	I	L	L1	socket screw	shear-head screw removable	shear-head screw unremovable	number	SW(i) (DIN 475)	torque (Nm)
35-150 RE	•		•		32	19.6	80		•			2	6	25
35-185 RM	•		•		32	19.6	80			•		2	6	25
50-150 SE/185 SE(90)	•			•	32	19.6	80		•			2	6	25
35-150 SM/185 SM(r)	•			•	32	19.6	80			•		2	6	25
	•			•	32	19.6	80				•	2	6	25
		•	•		32	19.6	80	32.5	•			2	6	25
		•	•		32	19.6	80	32.5	•			4	6	25
		•	•		32	19.6	80	32.5		•		4	6	25
		•		•	32	19.6	80	32.5	•			2	6	25
		•		•	32	19.6	80	32.5		•		2	6	25
		•		•	32	19.6	80	32.5			•	2	6	25
	•		•		32	19.6	108		•			4	6	25
	•		•		32	19.6	108			•		4	6	25
70-150 RE 70-150 SE		•			32	19.6	80	32.5			•	2	6	25





Aluminum Single Barrel Connector, One Hole Mount

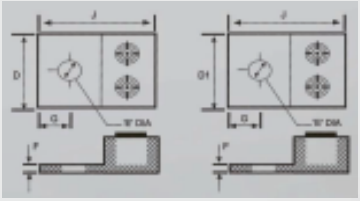
- Material Aluminium
- Surface eletro tinned plated
- Bolts aluminium



Product Ref.	Conductor Range (Al. or Cu.)		DIMENSIONS IN mm & (inches)				
	MAX	MIN.	J	D	G	E (Bolt Hole)	F
CSBC	4 STR	14 AWG	27.00 (1.10)	12.70 (0.50)	5.95 (0.23)	1/4	2.40(0.09)
CSBC	2 STR	14 AWG	29.40 (1.15)	12.70 (0.50)	7.55 (0.29)	1/4	2.75 (0.10)
CSBC	1/0 STR	14 AWG	37.10 (1.46)	15.90 (0.62)	11.10 (0.43)	1/4	4.70 (0.18)
CSBC	2/0 STR	14 AWG	37.10 (1.46)	15.90 (0.62)	11.10 (0.43)	1/4	4.70 (0.18)
CSBC	250 KCMIL	6 STR	50.60 (2.00)	21.75 (0.85)	12.75 (0.50)	5/16	6.40 (0.25)
CSBC	300 KCMIL	6 STR	50.60 (2.00)	21.75 (0.85)	11.90 (0.46)	5/16	6.40 (0.25)
CSBC	350 KCMIL	6 STR	57.15 (2.25)	28.60 (1.12)	12.70 (0.50)	3/8	6.40 (0.25)
CSBC	500 KCMIL	4 STR	71.50 (2.81)	38.10 (1.50)	19.05 (0.75)	3/8	8.00 (0.31)
CSBC	600 KCMIL	2 STR	81.00 (3.19)	38.10 (1.50)	20.60 (0.81)	3/8	11.10 (0.43)
CSBC	800 KCMIL	300 KCMIL	85.70 (3.37)	44.50 (1.75)	22.20 (0.87)	5/8	12.70 (0.50)
CSBC	1000 KCMIL	500 KCMIL	85.70 (3.37)	44.50 (1.75)	22.20 (0.87)	5/8	12.70 (0.50)

Aluminium Double Barrel Connector, One Hole Mount

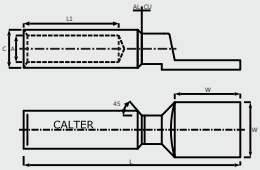
Material Aluminium
Surface eletro tinned plated
Bolts aluminium



Product Ref.	Conductor Range (Al. or Cu.)		DIMENSIONS IN mm & (inches)					
	MAX	MIN.	J	D	G	E (Bolt Hole)	F	D1
CDBC	1/0 STR	14 AWG	37.10 (1.46)	30.95 (1.22)	11.10 (0.43)	1/4	4.70 (0.18)	-
CDBC	2/0 STR	14 AWG	37.10 (1.46)	31.75 (1.25)	10.70 (0.42)	1/4	4.70 (0.18)	-
CDBC	250 KCMIL	6 STR	65.10 (2.56)	41.70 (1.64)	22.20 (0.87)	3/8	6.40 (0.25)	38.1 (1.50)
CDBC	350 KCMIL	6 STR	73.00 (2.87)	48.60 (1.91)	22.20 (0.87)	1/2	6.40 (0.25)	44.8 (1.76)
CDBC	600 KCMIL	2 STR	81.00 (3.19)	61.10 (2.40)	15.90 (0.62)	1/2	11.10 (0.43)	50.4 (1.98)
CDBC	800 KCMIL	300 KCMIL	85.70 (3.37)	80.90 (3.18)	22.20 (0.87)	5/8	12.70 (0.50)	50.4 (1.98)
CDBC	1000 KCMIL	500 KCMIL	85.70 (3.37)	80.90 (3.18)	22.20 (0.87)	5/8	12.70 (0.50)	-

Bi-Metallic Lugs

For cables with aluminium, compact round and pre-rounded sector shaped conductors.
Al. barrel friction welded to solid copper palm



Product Ref	Dimension mm				
	E	W	I	O	L
CBL 16	13/17	35	5.5	12	125
CBL 25	13/17	35	6.5	12	125
CBL 35	13/17	35	8.5	14	125
CBL 50	13/17	35	9.5	16	125
CBL 70	13/17	35	11.0	18	125
CBL 95	13/17	35	12.5	22	125
CBL 120	13/17	35	13.7	23	135
CBL 150	13/17	35	15.5	25	135
CBL 185	13/17	35	17.0	28	135
CBL 240	13/17	35	19.5	32	135
CBL 300	13/17	35	22.5	34	145
CBL 400	13/17	35	25.0	38	155
CBL 500	**	60x60	28.5	44	200
CBL 630		60x60	31.7	44	200
CBL 800		80x80	35.7	50	260
CBL 1000		80x80	42.0	58	260

Note: Dimension 'O' can be to local standards/Customer Specification
*1-hole to customer specification
**2-holes/4-holes to customer specification

Made to order

Bi Metallic Connectors

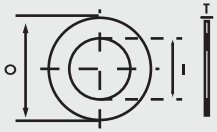
Compression Joints Aluminum with Copper Connecting Pin

Product Ref.	Dimension mm		
	I	O	L
CBC 16	5.5	8	82
CBC 25	6.5	8	82
CBC 35	8.0	8	82
CBC 50	9	12	97
CBC 70	11	12	97
CBC 95	12.5	12	97
CBC 120	13.7	14	125
CBC 150	15.5	14	125
CBC 185	17	14	125
CBC 240	19.5	14	125

Bi Metallic Washers

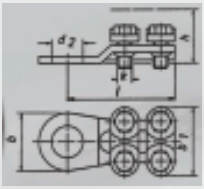
- Material Aluminium 99.5, Copper plated one side

Product Ref.	Bolt Size	I	O	T
CBW	M 8	8.5	18.0	1.0
CBW	M 10	11.0	22.0	2.0
CBW	M 12	13.0	28.0	2.0
CBW	M 14	15.0	28.0	2.0
CBW	M 16	17.0	35.0	2.0



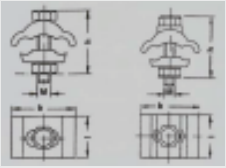
Mechanical Cable Lugs

- Material copper alloy
- Surface tinned plated
- 4 Screws



Product Ref.	Cross Section mm²	B1	H	I	K
CMST	16 - 25	22.50	16	36.0	M5
CMST		22.50	16	37.0	M5
CMST	25 - 35	24.00	16	38.5	M5
CMST		24.00	16	42.0	M5
CMST		24.00	16	42.0	M5
CMST	35 - 50	28.00	19	46.0	M6
CMST		28.00	19	47.0	M6
CMST	50 - 70	31.00	19	51.0	M6
CMST		31.00	19	51.0	M6
CMST	70 - 95	34.00	25	57.0	M6
CMST		34.00	25	57.0	M6
CMST	95 - 150	42.00	32	61.0	M8
CMST		42.00	32	61.0	M8
CMST		42.00	32	61.5	M8
CMST	150 - 240	48.50	32	68.5	M8
CMST		48.50	32	68.5	M8
CMST		48.50	32	68.5	M8
CMST		48.50	32	70.5	M8
CMST	185 - 300	50.00	37	68.5	M8
CMST		50.00	37	68.5	M8
CMST		50.00	37	70.0	M8

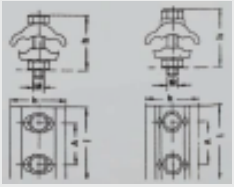
Parrallel Groove Clamps



- Material EC copper
- Surface copper finish
- Screws high tensile copper alloy

Product Ref.	Cross Section mm	A	H	L	K
CPGC	4 - 16	11.0	16	22	M5
CPGC	4 - 25	12.5	21	26	M6
CPGC		15.0	22	30	M7
CPGC	6 - 35	15.0	23	30	M7
CPGC	10 - 50	18.0	26	34	M7
CPGC		18.0	27	36	M8
CPGC	10 - 70	19.0	29	38	M8
CPGC	25 - 95	25.5	36	46	M10
CPGC	35 - 150	26.0	40	52	M10

Parrallel Groove Clamps

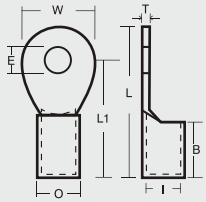


- Material EC copper
- Surface copper finish
- Screws high tensile copper alloy

Product Ref.	Cross Section mm^2	A	H	L	K
CPGC	4 - 16	11.0	16	22	M5
CPGC	4 - 25	12.5	21	26	M6
CPGC		15.0	22	30	M7
CPGC	6 - 35	15.0	23	30	M7
CPGC	10 - 50	18.0	26	34	M7
CPGC		18.0	27	36	M8
CPGC	10 - 70	19.0	29	38	M8
CPGC	25 - 95	25.5	36	46	M10
CPGC	35 - 150	26.0	40	52	M10

Cable Terminal Ends
Ring Type Non Insulated

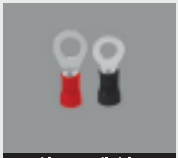
- Electrolytic high conductivity copper
- Electro tinned plated



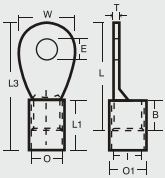
Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm						
		E	I	O	W	T	B	L1	L
D-CRT-7048	1.5	3.7	1.6	3.2	6.8	0.8	5	9.6	13
D-CRT-7049	1.5	4.2	1.6	3.2	6.8	0.8	5	9.6	13
D-CRT-7001	1.5	3.2	1.6	3.2	6	0.8	5	11	14
D-CRT-7004	1.5	4.2	1.6	3.2	8	0.8	5	12	16
D-CRT-7005	1.5	5.2	1.6	3.2	8	0.8	5	12	16
D-CRT-7007	1.5	6.4	1.6	3.2	10	0.8	5	13	18
D-CRT-7107	2.5	3.2	2.3	3.9	6.5	0.8	5	9.5	12.7
D-CRT-7008	2.5	3.7	2.3	3.9	6.5	0.8	5	9.5	12.7
D-CRT-7108	2.5	3.7	2.3	3.9	8	0.8	5	12	16
D-CRT-7009	2.5	4.2	2.3	3.9	8	0.8	5	12	16
D-CRT-7010	2.5	5.2	2.3	3.9	8	0.8	5	12	16
D-CRT-7011	2.5	6.4	2.3	3.9	10	0.8	5	13	18
D-CRT-7110	2.5	5.2	2.3	3.9	12	0.8	5	16	22
D-CRT-7013	2.5	8.2	2.3	3.9	12	0.8	5	16	22
D-CRT-7151	2.5	10.2	2.3	3.9	18	0.8	5	20	29
D-CRT-7155	4 - 6	4.2	3.5	5.5	8	1.0	6	13	17
D-CRT-7050	4 - 6	5.2	3.5	5.5	8	1.0	6	13	17
D-CRT-7017	4 - 6	6.4	3.5	5.5	12.0	1.0	6	14.0	20
D-CRT-7019	4 - 6	6.4	3.5	5.5	12.0	1.0	6	16	22
D-CRT-7115	4 - 6	6.4	3.5	5.5	14.0	1.0	6	18.5	25.5
D-CRT-7020	4 - 6	8.2	3.5	5.5	14.0	1.0	6	18.5	25.5
D-CRT-7116	4 - 6	8.2	3.5	5.5	16.0	1.0	6	22.0	30.0
D-CRT-7023	4 - 6	10.2	3.5	5.5	18.0	1.0	6	21.0	30.0
D-CRT-7024	4 - 6	12.7	3.5	5.5	18.0	1.0	6	21.0	30.0
D-CRT-7025	10	5.2	4.3	6.3	10.0	1.0	8	17.0	22.0
D-CRT-7120	10	6.4	4.3	6.3	12.0	1.0	8	17.0	23.0
D-CRT-7121	10	8.2	4.3	6.3	16	1.0	8	19	27
D-CRT-7123	10	10.2	4.3	6.3	22	1.0	8	23	34
D-CRT-7028	10	12.7	4.3	6.3	22	1.0	8	23	34
D-CRT-7124	16	5.2	5.6	8	10	1.2	10	19	24
D-CRT-7029	16	6.4	5.6	8	12	1.2	10	20	26
D-CRT-7030	16	8.2	5.6	8	16	1.2	10	22	30
D-CRT-7033	16	12.7	5.6	8	22	1.2	10	24	35
D-CRT-7156	25	6.4	7.5	11.1	12	1.8	11	25	31
D-CRT-7051	25	8.2	7.5	11.1	12	1.8	11	25	31
D-CRT-7034	25	8.2	7.5	11.1	16	1.8	11	22	30
D-CRT-7037	25	12.7	7.5	11.1	22	1.8	11	31	42
D-CRT-7133	35	6.4	9	12.6	16	1.8	12	23	31
D-CRT-7038	35	8.2	9	12.6	16	1.8	12	23	31
D-CRT-7135	35	10.2	9	12.6	22	1.8	12	31	42
D-CRT-7040	35	12.7	9	12.6	22	1.8	12	31	42
D-CRT-7136	50	8.2	10.5	14.1	18	1.8	16	34	43
D-CRT-7137	50	10.2	10.5	14.1	22	1.8	16	32	43
D-CRT-7138	50	10.2	10.5	14.1	24	1.8	16	36	48
D-CRT-7139	50	16.2	10.5	14.1	32	1.8	16	38	54
D-CRT-7140	70	10.2	12	16	22	2	18	36	47
D-CRT-7141	70	12.7	12	16	24	2	18	36	48
D-CRT-7144	95	10.2	13.5	18.1	24	2.3	20	38	50
D-CRT-7044	95	12.7	13.5	18.1	24	2.3	20	38	50
D-CRT-7146	120	12.7	15	20.2	26	2.6	22	39	52
D-CRT-7148	120	23	15	20.2	40	2.6	22	52	72
D-CRT-7149	150	12.7	16.5	23.7	34	3.6	24	49	66
D-CRT-7045	150	16.2	16.5	23.7	34	3.6	24	49	66

Cable Terminal Ends Ring Type Insulated

- Electrolytic high conductivity copper
- Electro tinned plated
- PVC insulation



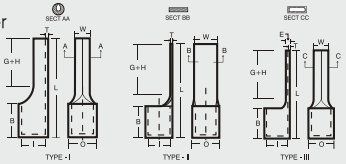
Also available Range in Reinforce



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm								
		E	I	O	W	T	B	L	L1	L3	O1
D-CIRT-7057	1.5	3.2	1.6	3.2	6.8	0.8	5	13	10	14.6	4.8
D-CIRT-7058	1.5	3.7	1.6	3.2	6.8	0.8	5	13	10	14.6	4.8
D-CIRT-7059	1.5	4.2	1.6	3.2	6.8	0.8	5	13	10	14.6	4.8
D-CIRT-7052	1.5	2.2	1.6	3.2	6	0.8	5	14	10	16	4.8
D-CIRT-7053	1.5	2.6	1.6	3.2	6	0.8	5	14	10	16	4.8
D-CIRT-7054	1.5	3.2	1.6	3.2	6	0.8	5	14	10	16	4.8
D-CIRT-7055	1.5	3.7	1.6	3.2	6	0.8	5	14	10	16	4.8
D-CIRT-7056	1.5	4.2	1.6	3.2	6	0.8	5	14	10	16	4.8
D-CIRT-7063	1.5	4.2	1.6	3.2	7	0.8	5	14.5	10	16	4.8
D-CIRT-7060	1.5	3.2	1.6	3.2	8	0.8	5	16	10	17	4.8
D-CIRT-7061	1.5	4.2	1.6	3.2	8	0.8	5	16	10	17	4.8
D-CIRT-7062	1.5	5.2	1.6	3.2	8	0.8	5	16	10	17	4.8
D-CIRT-7064	1.5	4.2	1.6	3.2	10	0.8	5	18	10	18	4.8
D-CIRT-7065	1.5	5.2	1.6	3.2	10	0.8	5	18	10	18	4.8
D-CIRT-7066	1.5	6.4	1.6	3.2	10	0.8	5	18	10	18	4.8
D-CIRT-7067	1.5	6.4	1.6	3.2	12	0.8	5	18	10	17	4.8
D-CIRT-7068	2.5	3.2	2.3	3.9	6.5	0.8	5	12.7	10	14.5	5.5
D-CIRT-7069	2.5	3.7	2.3	3.9	6.5	0.8	5	12.7	10	14.5	5.5
D-CIRT-7070	2.5	3.7	2.3	3.9	8	0.8	5	16	10	17	5.5
D-CIRT-7071	2.5	4.2	2.3	3.9	8	0.8	5	16	10	17	5.5
D-CIRT-7072	2.5	5.2	2.3	3.9	8	0.8	5	16	10	17	5.5
D-CIRT-7073	2.5	5.2	2.3	3.9	10	0.8	5	18	10	18	5.5
D-CIRT-7074	2.5	6.4	2.3	3.9	10	0.8	5	18	10	18	5.5
D-CIRT-7075	2.5	5.2	2.3	3.9	12	0.8	5	22	10	21	5.5
D-CIRT-7076	2.5	6.4	2.3	3.9	12	0.8	5	22	10	21	5.5
D-CIRT-7077	2.5	8.2	2.3	3.9	12	0.8	5	22	10	21	5.5
D-CIRT-7078	2.5	6.4	2.3	3.9	16	0.8	5	25	10	22	5.5
D-CIRT-7079	2.5	8.2	2.3	3.9	16	0.8	5	25	10	22	5.5
D-CIRT-7080	2.5	10.2	2.3	3.9	16	0.8	5	25	10	22	5.5
D-CIRT-7081	2.5	10.2	2.3	3.9	18	0.8	5	29	10	25	5.5
D-CIRT-7082	2.5	12.7	2.3	3.9	18	0.8	5	29	10	25	5.5
D-CIRT-7083	4 - 6	4.2	3.5	5.5	8	1.0	6	17	14	21	7.1
D-CIRT-7084	4 - 6	5.2	3.5	5.5	8	1.0	6	17	14	21	7.1
D-CIRT-7085	4 - 6	4.2	3.5	5.5	10	1.0	6	19	14	22	7.1
D-CIRT-7086	4 - 6	5.2	3.5	5.5	10	1.0	6	19	14	22.0	7.1
D-CIRT-7088	4 - 6	5.2	3.5	5.5	12	1.0	6	20	14	22.0	7.1
D-CIRT-7089	4 - 6	6.4	3.5	5.5	12	1.0	6	20	14	22.0	7.1
D-CIRT-7090	4 - 6	8.2	3.5	5.5	12	1.0	6	20	14	22.0	7.1
D-CIRT-7087	4 - 6	5.2	3.5	5.51	2.0	1.0	6	22	14	26.0	7.1
D-CIRT-7091	4 - 6	6.4	3.5	5.5	12.0	1.0	6	22	14	24.0	7.1
D-CIRT-7092	4 - 6	5.2	3.5	5.5	8.0	1.0	6	22.8	14	24.0	7.1
D-CIRT-7093	4 - 6	6.4	3.5	5.5	14.0	1.0	6	25.5	14	26.5	7.1
D-CIRT-7094	4 - 6	8.2	3.5	5.5	14.0	1.0	6	25.5	14	26.5	7.1
D-CIRT-7095	4 - 6	9.7	3.5	5.5	14.0	1.0	6	25.5	14	26.5	7.1
D-CIRT-7096	4 - 6	8.2	3.5	5.5	16.0	1.0	6	30.0	14	30.0	7.1
D-CIRT-7097	4 - 6	10.2	3.5	5.5	16.0	1.0	6	30.0	14	30.0	7.1
D-CIRT-7098	4 - 6	8.2	3.5	5.5	18.0	1.0	6	30.0	14	30.0	7.1
D-CIRT-7099	4 - 6	10.2	3.5	5.5	18.0	1.0	6	30.0	14	29.0	7.1
D-CIRT-7100	4 - 6	12.7	3.5	5.5	18.0	1.0	6	30.0	14	29.0	7.1

Cable Terminal Ends Pin Type

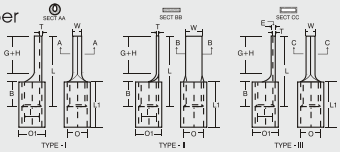
- Electrolytic high conductivity copper
- Electro tinned plated



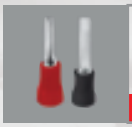
Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm							
		E	I	O	W	T	B	G+H	L	TYPE
D-CPT-9	1.5	--	1.6	3.2	1.9	0.8	5	10	17	I
D-CPT-1	2.5	--	2.3	3.9	1.9	0.8	5	10	17	I
D-CPT-2	2.5	--	2.3	3.9	3.1	0.8	5	10	17	II
D-CPT-3	4	--	2.9	4.9	2.7	1	6	10	20	I
D-CPT-5	6	--	3.6	5.6	2.7	1	6	10	20	I
D-CPT-7	10	2.4	4.5	6.7	4.3	1.1	8	12	22	III
D-CPT-8	16	2.6	5.8	8.2	5.5	1.2	10	13	23	III

Cable Terminal Ends Pin Type Insulated

Electrolytic high conductivity copper
Electro tinned plated
PVC Insulation



Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm									
		E	I	O	W	T	B	G+H	L	O1	L1	TYPE
D-CIPT-17	1.5	--	1.6	3.2	1.9	0.8	5	10	17	4.8	10	I
D-CIPT-18	2.5	--	2.3	3.9	1.9	0.8	5	10	17	5.5	10	I
D-CIPT-19	2.5	--	2.3	3.9	3.1	0.8	5	10	17	5.5	10	II
D-CIPT-20	4	--	2.9	4.9	2.7	1	6	10	20	7.1	14	I
D-CIPT-22	6	--	3.6	5.6	2.7	1	6	10	20	7.1	14	I



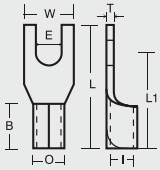
Cable Terminal Ends:
Pin Type Reinforce Insulated
Tinned Copper

Also available Range in Reinforce

Cable Terminal Ends Fork Type

Tinned Copper

- Electrolytic high conductivity copper
- Electro tinned plated

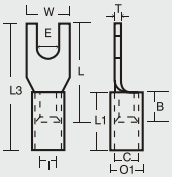


Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm						
		E	I	O	W	T	B	L1	L
D-CFT-7249	1.5	3.5	1.6	3.2	6.8	0.8	4	8.8	13
D-CFT-7251	2.5	3.5	2.3	3.9	6.5	0.8	5	11.8	15
D-CFT-7252	4 - 6	3.1	3.5	5.5	6.0	1	6	11.5	15
D-CFT-7253	4 - 6	3.5	3.5	5.5	6.0	1	6	11	15

Cable Terminal Ends Fork Type Insulated

Tinned Copper

- Electrolytic high conductivity copper
- Electro tinned plated
- PVC insulated

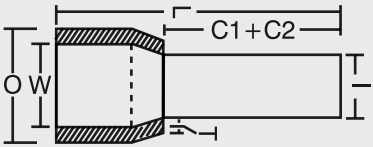


Product Ref.	Conductor Size mm²	Stud Hole	Dimensions mm								
		E	I	O	W	T	B	L	O1	O2	L3
D-CIFT-7926	1.5	3.5	1.6	3.2	6.8	0.8	4	13	4.8	10	20.8
D-CIFT-7928	2.5	3.5	2.3	3.9	6.5	0.8	5	15	5.5	10	21.8
D-CIFT-7930	4 - 6	3.1	3.5	5.5	6.0	1	6	15	7.0	14	27.5
D-CIFT-7931	4 - 6	3.5	3.5	5.5	6.0	1	6	15	7.1	14	27.0

Also available Range in Reinforce

Copper End Sealing Ferrules

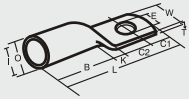
• Electrolytic high conductivity copper



Sr.No.	Actual Size	Product Ref.	Size mm²	Colour Code	O	I	W	T	C1+C2	L
1		CSF 508 L6	0.5	WHITE	1.5	1.1	2.6	0.5	6	12
2		CSF 508 L8		WHITE	1.5	1.1	2.6	0.5	8	14
3		CSF 508 L10		WHITE	1.5	1.1	2.6	0.5	10	16
4		CSF 509 L6	0.75	BLUE	1.9	1.5	2.8	0.5	6	12
5		CSF 509 L8		BLUE	1.9	1.5	2.8	0.5	8	14
6		CSF 509 L10		BLUE	1.9	1.5	2.8	0.5	10	16
7		CSF 509 L12		BLUE	1.9	1.5	2.8	0.5	12	18
8		CSF 510 L6	1.0	RED	2.1	1.7	3.3	0.5	6	12
9		CSF 510 L8		RED	2.1	1.7	3.3	0.5	8	14
10		CSF 511 L10		RED	2.1	1.7	3.3	0.5	10	16
11		CSF 511 L12		RED	2.1	1.7	3.3	0.5	12	18
12		CSF 512 L8	1.5	BLACK	2.3	1.9	3.5	0.5	8	14
13		CSF 513 L10		BLACK	2.3	1.9	3.5	0.5	10	16
14		CSF 513 L18		BLACK	2.3	1.9	3.5	0.5	18	24
15		CSF 514 L8	2.5	GREY	2.8	2.4	4.2	0.5	8	14
16		CSF 515 L12		GREY	2.8	2.4	4.2	0.5	12	18
17		CSF 515 L18		GREY	2.8	2.4	4.2	0.5	18	24
18		CSF 516 L10	4.0	ORANGE	3.3	2.9	4.8	0.5	10	16
19		CSF 517 L12		ORANGE	3.3	2.9	4.8	0.5	12	18
20		CSF 517 L18		ORANGE	3.3	2.9	4.8	0.5	18	24
21		CSF 518 L10	6.0	GREEN	4.2	3.8	6.3	0.5	10	18
22		CSF 519 L12		GREEN	4.2	3.8	6.3	0.5	12	20
23		CSF 520 L15		GREEN	4.2	3.8	6.3	0.5	15	23
24		CSF 520 L18		GREEN	4.2	3.8	6.3	0.5	18	26
25		CSF 521 L12	10.0	BROWN	5.1	4.7	7.6	0.7	12	22
26		CSF 522 L15		BROWN	5.1	4.7	7.6	0.7	15	25
27		CSF 523 L18		BROWN	5.1	4.7	7.6	0.7	18	28
28		CSF 524 L12	16.0	WHITE	6.4	6.0	8.8	0.7	12	24
29		CSF 525 L15		WHITE	6.4	6.0	8.8	0.7	15	27
30		CSF 526 L18		WHITE	6.4	6.0	8.8	0.7	18	30

Tubular Cable Lugs

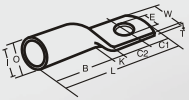
Tinned Copper



Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm								
			I	O	W	T	B	K	C1	C2	L
CTD-05	2.5	5.2	2.0	3.7	9	1.0	7	3	5	5	20
CTD-06	4	6.5	3.1	4.8	11	1.0	7	3	6	6	22
CTD-07	6	6.5	3.8	5.5	11	1.0	9	3	6	6	24
CTD-08	10	6.5	4.4	6.2	11	1.3	9	3	6	6	24
CTD-09	16	6.5	5.3	7.1	11	1.6	12	4	8	6	30
CTD-10	25	6.5	7.0	9.0	13	2.0	12	5	12	8	37
CTD-11	35	6.5	8.0	10.0	15	2.0	12	5	12	8	37
CTD-12	35	8.2	8.0	10.0	15	2.0	12	5	12	8	37
CTD-13	50	6.5	9.2	11.2	16	2.0	16	8	12	9	45
CTD-14	50	8.2	9.2	11.2	16	2.0	16	8	12	9	45
CTD-15	50	10.2	9.2	11.2	16	2.0	16	8	12	9	45
CTD-16	70	8.2	11.5	13.8	20	2.3	18	10	15	13	56
CTD-17	70	10.2	11.5	13.8	20	2.3	18	10	15	13	56
CTD-18	70	12.7	11.5	13.8	20	2.3	18	10	15	13	56
CTD-19	95	10.2	12.8	15.6	23	2.8	20	10	15	13	58
CTD-20	95	12.7	12.8	15.6	23	2.8	20	10	15	13	58
CTD-21	120	10.2	14.8	17.8	26	3.0	22	10	16	14	62
CTD-22	120	12.7	14.8	17.8	26	3.0	22	10	16	14	62
CTD-23	120	16.2	14.8	17.8	26	3.0	22	10	16	14	62
CTD-24	150	10.2	16.0	19.6	28	3.6	26	11	18	15	70
CTD-25	150	12.7	16.0	19.6	28	3.6	26	11	18	15	70
CTD-26	150	16.2	16.0	19.6	28	3.6	26	11	18	15	70
CTD-27	185	12.7	18.0	22.0	32	4.0	28	13	21	21	83
CTD-28	185	16.2	18.0	22.0	32	4.0	28	13	21	21	83
CTD-231	225	16.2	20.0	24.0	35	4.0	32	15	24	24	95
CTD-29	240	16.2	22.0	26.0	35	4.0	34	15	24	24	97
CTD-30	240	20.3	22.0	26.0	38	4.0	34	15	24	24	97
CTD-31	300	16.2	24.0	28.7	38	4.7	36	16	25	25	103
CTD-32	300	20.3	24.0	28.7	42	4.7	36	16	25	25	103
CTD-33	400	20.3	28.0	33.2	42	5.2	44	18	27	27	116
CTD-34	500	20.3	30.0	36.0	53	6.0	48	18	27	27	120
CTD-35	630	20.3	35.0	41.5	61	6.5	53	20	33	31	137
CTD-062	800	-	39.0	46.3	67	7.3	68	25	38	37	165
CTD-076	1000	-	43.0	53.8	76	10.8	90	30	45	45	210

Tubular Cable Lugs Heavy Duty

Tinned Copper

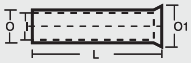


Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm								
			I	O	W	T	B	K	C1	C2	L
CTD-282	25	8.2	7.0	9.0	13	2.0	7	3	5	5	20
CTD-283	35	8.2	8.0	10.6	15	2.6	7	3	6	6	22
CTD-284	50	8.2	9.2	12.2	17	3.0	9	3	6	6	24
CTD-285	70	10.2	11.5	15.0	20	3.5	9	3	6	6	24
CTD-286	95	12.7	12.8	17.0	24	4.2	12	4	8	6	30
CTD-287	120	12.7	14.8	19.6	28	4.8	12	5	12	8	37
CTD-288	150	12.7	16.0	21.2	30	5.2	62	5	12	8	37
CTD-289	185	12.7	18.0	24.0	34	6.0	43	5	12	8	37
CTD-290	240	16.2	22.0	28.0	40	6.0	50	8	12	9	45

Copper Tubular End Sealing Ferrules DIN 46228

For Solderless Crimping to Copper/Aluminum Conductors

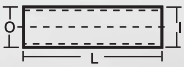
- Electrolytic high conductivity copper
- Electro tinned plated



Product Ref.	Conductor Size mm²	Dimensions mm					
		I	O	O-1	K	R	L
CSF-508	0.5	1.0-1.1	1.4-1.5	2.1	0.7	0.8	6
CSF-509	0.75	1.4-1.5	1.8-1.9	2.5	0.7	0.8	6
CSF-510	1.0	1.6-1.7	2.0-2.1	2.7	0.7	0.8	6
CSF-511	1.0	1.8-1.9	2.0-2.1	2.7	0.7	0.8	10
CSF-512	1.5	2.3-2.4	2.2-2.3	2.9	1.0	1.2	7
CSF-513	1.5	2.3-2.4	2.2-2.3	2.9	1.0	1.2	10
CSF-514	2.5	2.8-2.9	2.7-2.8	3.5	1.0	1.2	7
CSF-515	2.5	3.7-3.8	2.7-2.8	3.5	1.0	1.2	12
CSF-516	4.0	3.7-3.8	3.2-3.3	4.0	1.0	1.2	9
CSF-517	4.0	4.6-4.7	3.2-3.3	4.0	1.0	1.2	12
CSF-518	6.0	4.6-4.7	4.1-4.2	4.8	1.0	1.2	10
CSF-519	6.0	4.6-4.7	4.1-4.2	4.8	1.0	1.2	12
CSF-520	6.0	5.9-6.0	4.1-4.2	4.8	1.0	1.2	15
CSF-521	10.0	4.6-4.7	5.0-5.1	5.8	1.2	1.2	12
CSF-522	10.0	4.6-4.7	5.0-5.1	5.8	1.2	1.2	15
CSF-523	10.0	4.6-4.7	5.0-5.1	5.8	1.2	1.2	18
CSF-524	16.0	5.9-6.0	6.3-6.4	7.5	1.5	1.6	12
CSF-525	16.0	5.9-6.0	6.3-6.4	7.5	1.5	1.6	15
CSF-526	16.0	5.9-6.0	6.3-6.4	7.5	1.5	1.6	18

Copper Tubular End Sealing Ferrules

For Solderless Crimping to Copper/Aluminum Conductors

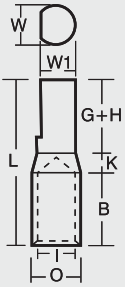


Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
CI-459	1.5	1.8	2.6	10
CI-466	2.5	2.4	3.2	10
CI-495	4	2.7	3.5	15
CI-568	6	3.5	4.3	15
CI-569	10	4.4	5.2	15
CI-570	16	5.3	6.1	18
CI-571	25	7.0	7.8	18
CI-500	35	8.0	8.8	18
CI-572	50	9.3	10.1	21
CI-497	70	11.5	12.3	21
CI-573	95	12.8	13.6	21
CI-574	120	14.8	15.6	21
CI-575	150	16.0	16.8	21
CI-496	185	18.0	18.8	21

Copper Reducer Type Terminal End

For Solderless Crimping to Aluminum Conductor Suitable for Fuse Units and ICTP Switchess

- Electrolytic high conductivity copper
- Electro tinned plated

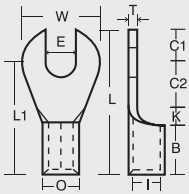


Product Ref.	Conductor Size mm²	Dimensions mm							
		I	O	W	W1	B	K	G+H	L
CWPC-1	2.5	2.5	4.7	4.5	4.0	6	4	10	20
CWPC-7	2.5	2.5	4.7	3.8	3.3	6	4	10	20
CWPC-15	4	2.8	4.7	4.5	4.0	6	4	10	20
CWPC-16	4	2.8	4.7	3.8	3.3	6	4	10	20
CWPC-17	6	3.1	4.7	4.5	4.0	6	4	10	20
CWPC-18	6	3.1	4.7	3.8	3.3	6	4	10	20
CWPC-19	10	3.8	5.5	4.5	4.0	9	4	10	23
CWPC-20	10	3.8	5.5	3.8	3.3	9	4	10	23
CWPC-21	10	4.4	6.2	4.5	4.0	9	4	10	23
CWPC-22	10	4.4	6.2	3.8	3.3	9	4	10	23
CWPC-23	16	5.3	7.1	6.0	5.5	12	5	15	32
CWPC-24	16	5.3	7.1	6.0	5.5	12	5	20	37
CWPC-2	16	5.3	7.1	3.8	3.3	12	5	13	30
CWPC-25	25	7.0	9.0	6.0	5.5	12	5	15	32
CWPC-3	25	7.0	9.0	7.5	6.5	12	5	20	37
CWPC-4	35	8.0	10.0	7.5	6.5	12	5	20	37
CWPC-26	50	9.2	11.2	7.5	6.5	16	5	20	41
CWPC-5	50	10.4	14.0	14	13.0	18	7	24	49
CWPC-27	70	11.5	13.8	7.5	6.5	18	5	20	43
CWPC-6	70	11.5	13.8	11.5	10.5	18	5	25	48
CWPC-28	70	11.5	13.8	11.5	10.5	18	5	32	55
CWPC-29	95	12.8	15.6	11.5	10.5	20	6	25	51
CWPC-6	95	12.8	15.6	15.6	14.0	20	6	27	53
CWPC-31	95	12.8	15.6	7.5	6.5	20	6	22	48
CWPC-32	95	12.8	15.6	12.8	11.8	20	6	32	58
CWPC-33	120	14.8	17.8	11.5	10.5	22	6	25	53
CWPC-34	120	14.8	17.8	7.5	6.5	22	6	22	50
CWPC-35	120	14.8	17.8	11.5	10.5	22	6	32	60
CWPC-36	120	14.8	17.8	15.6	14.0	22	6	32	60
CWPC-10	150	16.0	19.6	15.6	14.0	26	6	32	64
CWPC-37	150	16.0	19.6	11.5	10.5	26	6	32	64
CWPC-30	185	18.0	22.0	15.6	14.0	32	6	32	70
CWPC-38	185	18.0	22.0	11.5	10.5	32	6	32	70
CWPC-39	225	20.0	26.0	15.6	14.0	38	8	32	78
CWPC-46	225	20.0	26.0	21.0	18.0	38	8	42	88
CWPC-42	225	20.0	26.0	16.0	15.0	38	8	42	88
CWPC-44	240	22.0	26.0	16.0	15.0	38	8	42	88
CWPC-43	240	22.0	26.0	15.6	14.0	38	8	32	78
CWPC-45	300	24.0	28.7	16.0	15.0	42	8	42	92
CWPC-47	300	24.0	28.7	15.6	14.0	42	8	32	82

Copper Ring Tongue Fork Terminal End

For Solderless Crimping to Copper/Aluminum Conductor

- Electrolytic high conductivity copper
- Electro tinned plated

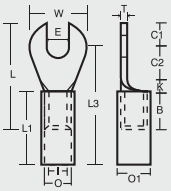


Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm									
			I	O	W	T	B	K	C2	C1	L-1	L
CFT-7235	1.5	3.1	1.6	3.2	6.0	0.8	5	2	4	3	11	14
CFT-7240	1.5	3.6	1.6	3.2	6.0	0.8	5	2	4	3	11	14
CFT-7241	1.5	3.1	1.6	3.2	6.8	0.8	5	-	4.6	3.4	9.6	13
CFT-7244	1.5	3.6	1.6	3.2	6.8	0.8	5	-	4.6	3.4	9.6	13
CFT-7237	1.5	4.1	1.6	3.2	7.0	0.8	5	1	5	3.5	11	14
CFT-7236	1.5	4.1	1.6	3.2	8.0	0.8	5	2	5	4	12	16
CFT-7238	1.5	5.1	1.6	3.2	10.0	0.8	5	2	6	5	13	18
CFT-7861	1.5	6.1	1.6	3.2	10.0	0.8	5	2	6	5	13	18
CFT-7962	2.5	3.1	2.3	3.9	6.5	0.8	5	1	3.5	3.2	9.5	12.7
CFT-7863	2.5	3.6	2.3	3.9	6.5	0.8	5	1	3.5	3.2	9.5	12.7
CFT-7239	2.5	4.1	2.3	3.9	8.0	0.8	5	2	5	4	12	16
CFT-7242	2.5	5.1	2.3	3.9	10.0	0.8	5	1	7	5	13	18
CFT-7864	2.5	6.1	2.3	3.9	10.0	0.8	5	1	7	5	13	18
CFT-7243	4-6	4.1	3.5	5.5	8.0	1.0	6	2	5	4	13	17
CFT-7245	4-6	4.1	3.5	5.5	10.0	1.0	6	3	5	5	14	19
CFT-7246	4-6	5.1	3.5	5.5	10.0	1.0	6	3	5	5	14	19
CFT-7247	4-6	5.1	3.5	5.5	10.0	1.0	6	3	7	6	16	22
CFT-7248	4-6	6.1	3.5	5.5	12.0	1.0	6	3	7	6	16	22
CFT-7865	10	4.1	4.3	6.3	10.0	1.0	8	2	7	5	17	22
CFT-7866	10	5.1	4.3	6.3	10.0	1.0	8	2	7	5	17	22
CFT-7867	10	6.1	4.3	6.3	12.0	1.0	8	2	7	6	17	23
CFT-7868	10	8.1	4.3	6.3	16.0	1.0	8	4	7	8	19	27
CFT-7869	16	5.1	5.6	8.0	10.0	1.2	10	3	6	5	19	24
CFT-7870	16	6.1	5.6	8.0	12.0	1.2	10	4	6	6	20	26
CFT-7871	16	8.1	5.6	8.0	16.0	1.2	10	4	8	8	22	30
CFT-7872	16	8.1	5.6	8.0	18.0	1.2	10	4	10	9	24	33

Copper Ring Tongue Fork Terminal End : Insulated

For Solderless Crimgin to Copper/Aluminum Conductor

- Electrolytic high conductivity copper
- Electro tinned plated



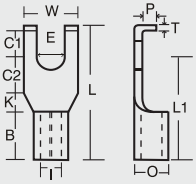
Also available Range in Reinforce

Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm											
			I	O	O1	W	T	B	K	C2	C1	L-3	L-1	L
CIFT-7873	1.5	3.1	1.6	3.2	4.8	6.0	0.8	5	2	4	3	16.0	10	14
CIFT-7874	1.5	3.6	1.6	3.2	4.8	6.0	0.8	5	2	4	3	16.0	10	14
CIFT-7875	1.5	3.1	1.6	3.2	4.8	6.8	0.8	5	-	4.6	3.4	14.6	10	13
CIFT-7876	1.5	3.6	1.6	3.2	4.8	6.8	0.8	5	-	4.6	3.4	14.6	10	13
CIFT-7877	1.5	4.1	1.6	3.2	4.8	7.0	0.8	5	1	5	3.5	16.0	10	14
CIFT-7878	1.5	4.1	1.6	3.2	4.8	8.0	0.8	5	2	5	4	17.0	10	16
CIFT-7879	1.5	5.1	1.6	3.2	4.8	10.0	0.8	5	2	6	5	18.0	10	18
CIFT-7880	1.5	6.1	1.6	3.2	4.8	10.0	0.8	5	2	6	5	18.0	10	18
CIFT-7881	2.5	3.1	2.3	3.9	5.5	6.5	0.8	5	1	3.5	3.2	14.5	10	12.7
CIFT-7882	2.5	3.6	2.3	3.9	5.5	6.5	0.8	5	1	3.5	3.2	14.5	10	12.7
CIFT-7883	2.5	4.1	2.3	3.9	5.5	8.0	0.8	5	2	5	4	17.0	10	16
CIFT-7884	2.5	5.1	2.3	3.9	5.5	10.0	0.8	5	1	7	5	18.0	10	18
CIFT-7885	2.5	6.1	2.3	3.9	5.5	10.0	0.8	5	1	7	5	18.0	10	18
CIFT-7886	4-6	4.1	3.5	5.5	7.1	8.0	1.0	6	2	5	4	21.0	14	17
CIFT-7887	4-6	4.1	3.5	5.5	7.1	10.0	1.0	6	3	5	5	22.0	14	19
CIFT-7888	4-6	5.1	3.5	5.5	7.1	10.0	1.0	6	3	5	5	22.0	14	19
CIFT-7889	4-6	5.1	3.5	5.5	7.1	12.0	1.0	6	3	7	6	24.0	14	22
CIFT-7890	4-6	6.1	3.5	5.5	7.1	12.0	1.0	6	3	7	6	24.0	14	22
CIFT-7891	10	4.1	4.3	6.3	7.9	10.0	1.0	8	2	7	5	25.0	16	22
CIFT-7892	10	5.1	4.3	6.3	7.9	10.0	1.0	8	2	7	5	25.0	16	22
CIFT-7893	10	6.1	4.3	6.3	7.9	12.0	1.0	8	2	7	6	25.0	16	23
CIFT-7894	10	8.1	4.3	6.3	7.9	16.0	1.0	8	4	7	8	27.0	16	27
CIFT-7895	16	5.1	5.6	8.0	10.0	10.0	1.2	10	3	6	5	29.0	20	24
CIFT-7896	16	6.1	5.6	8.0	10.0	12.0	1.2	10	4	6	6	30.0	20	26
CIFT-7897	16	8.1	5.6	8.0	10.0	16.0	1.2	10	4	8	8	32.0	20	30
CIFT-7898	16	8.1	5.6	8.0	10.0	18.0	1.2	10	4	10	9	34.0	20	33

Copper Fork Hook Terminal End

For Solderless Crimping to Copper/Aluminum Conductor

- Electrolytic high conductivity copper
- Electro tinned plated



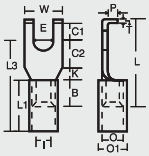
Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm									
			I	O	W	T	B	K	C2	P	L-1	L
CFH-7279	0.75	2.3	0.9	2.9	4.0	0.5	3	-	5	1.2	8	11
CFH-7278	1.5	2.3	1.6	3.2	5.0	0.8	5	-	5.2	1.0	10.2	13
CFH-7265	1.5	2.3	1.6	3.2	4.5	0.8	5	-	5.2	1.0	10.2	13
CFH-7266	1.5	4.1	1.7	3.3	7.5	0.8	5	-	6.5	2.4	11.5	15
CFH-7256	1.5	3.6	1.6	3.2	6.8	0.8	5	2	3	1.6	10	15
CFH-7257	1.5	5.1	1.6	3.2	8.0	0.8	5	2	5	1.6	12	18
CFH-7270	1.5	6.3	1.6	3.2	12.0	0.8	5	3	5	1.6	13	19
CFH-7271	1.5	8.1	1.6	3.2	12.0	0.8	5	3	5	1.6	13	19
CFH-7258	2.5	3.6	2.3	3.9	6.5	0.8	5	2	3	1.6	10	15
CFH-7259	2.5	4.1	2.3	3.9	7.7	0.8	5	2	3	1.6	10	16
CFH-7260	2.5	5.1	2.3	3.9	10.0	0.8	5	2	5	1.6	12	18
CFH-7272	2.5	6.3	2.3	3.9	12.0	0.8	5	3	5	1.6	13	19
CFH-7273	2.5	8.1	2.3	3.9	12.0	0.8	5	3	5	1.6	13	19
CFH-7274	4.0	4.1	3.1	5.5	10.0	1.2	6	3	5	2.0	14	20
CFH-7275	4.0	5.1	3.1	5.5	10.0	1.2	6	3	5	2.0	14	20
CFH-7276	4.0	6.3	3.1	5.5	12.0	1.2	6	3	5	2.0	14	20
CFH-7277	4.0	8.1	3.1	5.5	12.0	1.2	6	3	5	2.0	14	20
CFH-7261	4-6	4.1	3.5	5.5	10.0	1.0	6	3	3	2.0	12	18
CFH-7262	4-6	5.1	3.5	5.5	10.0	1.0	6	3	5	2.0	14	20
CFH-7263	4-6	5.1	3.5	5.5	12.0	1.0	6	3	5	2.0	14	20
CFH-7268	4-6	4.1	3.5	5.5	8.0	1.0	6	2	5	2.0	13	17
CFH-7269	4-6	5.1	3.5	5.5	8.0	1.0	6	2	5	2.0	13	17
CFH-7264	6.0	4.1	3.9	5.9	10.0	1.0	6	4	3	2.0	13	19
CFH-7267	6.0	4.1	3.9	5.9	10.0	1.0	6	-	8.5	1.5	14.5	20.5

Copper Fork Hook Terminal End : Insulated

For Solderless Crimping to Copper/Aluminum Conductor

- Electrolytic high conductivity copper
- Electro tinned plated

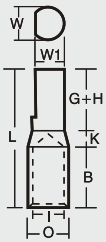
Also available Range in Reinforce



Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm											
			I	O	O1	W	T	B	K	C2	P	L-3	L-1	L
CIFH-7943	0.75	2.3	0.9	1.9	3.2	4.6	0.5	3	-	5	1.2	13.0	8	11
CIFH-7944	1.5	2.3	1.6	3.2	4.8	6.0	0.8	5	-	5.2	1.0	20.2	10	13
CIFH-7945	1.5	2.3	1.6	3.2	4.8	4.6	0.8	5	-	5.2	1.0	20.2	10	13
CIFH-7946	1.5	4.1	1.7	3.3	4.8	7.5	0.8	5	-	6.5	2.4	21.5	10	15
CIFH-7947	1.5	3.6	1.6	3.2	4.8	6.8	0.8	5	2	3	1.6	20.0	10	15
CIFH-7948	1.5	5.1	1.6	3.2	4.8	8.0	0.8	5	2	5	1.6	22.0	10	18
CIFH-7949	1.5	6.3	1.6	3.2	4.8	12.0	0.8	5	3	5	1.6	23.0	10	19
CIFH-7950	1.5	8.1	1.6	3.2	4.8	12.0	0.8	5	3	5	1.6	23.0	10	19
CIFH-7951	2.5	3.6	2.3	3.9	5.5	6.5	0.8	5	2	3	1.6	20.0	10	15
CIFH-7952	2.5	4.1	2.3	3.9	5.5	7.7	0.8	5	2	3	1.6	20.0	10	16
CIFH-7953	2.5	5.1	2.3	3.9	5.5	10.0	0.8	5	2	5	1.6	22.0	10	18
CIFH-7954	2.5	6.3	2.3	3.9	5.5	12.0	0.8	5	3	5	1.6	23.0	10	19
CIFH-7955	2.5	8.1	2.3	3.9	5.5	12.0	0.8	5	3	5	1.6	23.0	10	19
CIFH-7956	4.0	4.1	3.1	5.5	7.1	10.0	1.2	6	3	5	2.0	30.0	14	20
CIFH-7957	4.0	5.1	3.1	5.5	7.1	10.0	1.2	6	3	5	2.0	30.0	14	20
CIFH-7958	4.0	6.3	3.1	5.5	7.1	12.0	1.2	6	3	5	2.0	30.0	14	20
CIFH-7959	4.0	8.1	3.1	5.5	7.1	12.0	1.2	6	3	5	2.0	30.0	14	20
CIFH-7960	4-6	4.1	3.5	5.5	7.1	10.0	1.0	6	3	3	2.0	28.0	14	18
CIFH-7961	4-6	5.1	3.5	5.5	7.1	10.0	1.0	6	3	5	2.0	30.0	14	20
CIFH-7962	4-6	5.1	3.5	5.5	7.1	12.0	1.0	6	3	5	2.0	30.0	14	20
CIFH-7963	4-6	4.1	3.5	5.5	7.1	8.0	1.0	6	2	5	2.0	29.0	14	17
CIFH-7964	4-6	5.1	3.5	5.5	7.1	8.0	1.0	6	2	5	2.0	29.0	14	17
CIFH-7965	6.0	4.1	3.9	5.9	7.1	10.0	1.0	6	4	3	2.0	-	14	19
CIFH-7966	6.0	4.1	3.9	5.9	7.1	10.0	1.0	6	-	8.5	1.5	-	14	20.5

Aluminum Reducer Type Terminal Ends

- Aluminum
- Natural/Passivated aluminum



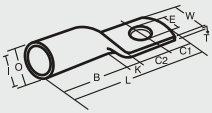
Product Ref.	Conductor Size mm²		Dimensions mm						
		I	O	W	W1	B	K	G+H	L
CWPA-1	2.5	2.0	5.5	4.5	4.0	7	4	10	21
CWPA-7	2.5	2.6	5.5	3.8	3.3	7	4	10	21
CWPA-15	4	2.9	5.5	4.5	4.0	7	4	10	21
CWPA-16	4	2.9	5.5	3.8	3.3	7	4	10	21
CWPA-17	6	3.5	5.5	4.5	4.0	7	4	10	21
CWPA-18	6	3.5	5.5	3.8	3.3	7	4	10	21
CWPA-19	10	3.8	7.4	4.5	4.0	9	4	10	23
CWPA-20	10	3.8	7.4	3.8	3.3	9	4	10	23
CWPA-21	10	4.4	7.4	4.5	4.0	9	4	10	23
CWPA-22	10	4.4	7.4	3.8	3.3	9	4	10	23
CWPA-23	16	5.4	8.3	6.0	5.5	13	5	15	33
CWPA-24	16	5.4	8.3	6.0	5.5	13	5	20	38
CWPA-2	16	5.4	8.3	3.8	3.3	13	5	13	31
CWPA-25	25	7.0	10.0	6.0	5.5	16	5	15	36
CWPA-3	25	7.0	10.0	7.5	6.5	16	5	20	41
CWPA-4	35	8.0	10.8	7.5	6.5	18	5	20	43
CWPA-26	50	9.3	13.0	7.5	6.5	22	5	20	47
CWPA-5	50	10.4	14.0	14.0	1.3	22	7	24	53
CWPA-27	70	11.6	16.0	7.5	6.5	26	5	20	51
CWPA-6	70	11.6	16.0	11.5	10.5	26	5	25	56
CWPA-28	70	11.6	16.0	11.5	10.5	26	5	32	63
CWPA-29	95	12.9	17.1	11.5	10.5	28	6	25	59
CWPA-8	95	12.9	17.1	15.6	14.0	28	6	27	61
CWPA-31	95	12.9	17.1	7.5	6.5	28	6	22	56
CWPA-32	95	12.9	17.1	12.8	11.8	28	6	32	66
CWPA-33	120	14.8	19.6	11.5	10.5	32	6	25	63
CWPA-34	120	14.8	19.6	7.5	6.5	32	6	22	60
CWPA-35	120	14.8	19.6	11.5	10.5	32	6	32	70
CWPA-36	120	14.8	19.6	15.6	14.0	32	6	32	70
CWPA-10	150	16.1	21.2	15.6	14.0	34	6	32	72
CWPA-37	150	16.1	21.2	11.5	10.5	34	6	32	72
CWPA-30	185	18.0	23.7	15.6	14.0	36	6	32	74
CWPA-38	185	18.0	23.7	11.5	10.5	36	6	32	74
CWPA-39	225	20.6	27.0	15.6	14.0	40	8	32	80
CWPA-46	225	20.6	27.0	21.0	18.0	40	8	42	90
CWPA-42	225	20.6	27.0	16.0	15.0	40	8	42	90
CWPA-44	240	22.0	28.0	16.0	15.0	44	8	42	94
CWPA-43	240	22.0	28.0	15.6	14.0	44	8	32	84
CWPA-45	300	24.0	31.0	16.0	15.0	47	8	42	97
CWPA-47	300	24.0	31.0	15.6	14.0	47	8	32	87

Compression Type Aluminum Tubular Terminal Ends

For Aluminum Conductor

- Electrolytic high conductivity aluminum
- Electro tinned plated

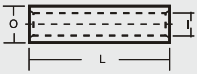
Also available in Bi-metalic Cable Terminal



Product Ref.	Conductor Size mm²	Stud Hole E	Dimensions mm								
			I	O	W	T	B	K	H	G	L
CAD-151	2.5	3.2	2.0	5.5	6.6	3.5	7	3	4	4	18
CAD-309	2.5	3.7	2.6	5.5	7.0	2.9	7	3	4	4	18
CAD-155	4	4.2	2.9	5.5	7.2	2.6	7	3	4	4	18
CAD-317	4	5.1	2.9	5.5	12.0	1.2	7	4	7	6	23
CAD-158	6	5.2	3.5	5.5	7.5	2.0	7	4	7	6	24
CAD-313	6	6.5	3.5	5.5	12.0	1.1	7	4	7	6	24
CAD-159	10	4.2	3.8	6.2	8.4	2.4	7	4	9	8	28
CAD-214	10	6.4	4.4	7.2	9.7	2.8	9	4	9	8	30
CAD-215	10	8.2	4.4	7.2	15.0	1.8	9	4	9	8	30
CAD-252	16	6.4	5.4	8.3	11.4	2.9	13	4	11	9	37
CAD-216	16	8.2	5.4	8.3	11.4	2.9	13	4	11	9	37
CAD-217	16	10.2	5.4	8.3	18.0	1.8	13	4	11	9	37
CAD-253	25	6.4	7.0	9.7	13.7	2.7	16	7	12	9	44
CAD-218	25	8.2	7.0	9.7	13.7	2.7	16	7	12	9	44
CAD-219	25	10.2	7.0	9.7	20.0	1.7	16	7	11	10	44
CAD-220	25	12.7	7.0	9.7	20.0	1.7	16	7	11	10	44
CAD-254	35	6.4	8.0	10.8	15.4	2.8	18	7	11	11	47
CAD-221	35	8.2	8.0	10.8	15.4	2.8	18	7	11	11	47
CAD-222	35	10.2	8.0	10.8	20.0	2.1	18	7	11	11	47
CAD-255	50	8.2	9.3	13.0	18.3	3.7	22	8	13	11	54
CAD-312	50	10.2	9.3	13.0	23.0	2.8	22	8	13	11	54
CAD-224	50	12.7	9.3	13.0	23.0	2.8	22	8	12	12	54
CAD-256	70	8.2	11.6	16.0	22.6	4.4	26	8	13	13	60
CAD-225	70	10.2	11.6	16.0	22.6	4.4	26	8	13	13	60
CAD-226	70	12.7	11.6	16.0	22.6	4.4	26	8	13	13	60
CAD-227	95	10.2	12.9	17.1	24.5	4.2	28	8	14	14	64
CAD-228	95	12.7	12.9	17.1	24.5	4.2	28	8	14	14	64
CAD-229	95	16.2	12.9	17.1	24.5	4.2	28	8	14	14	64
CAD-257	120	10.2	15.0	19.6	28.2	4.6	32	11	15	15	73
CAD-230	120	12.7	15.0	19.6	28.2	4.6	32	11	15	15	73
CAD-231	120	16.2	15.0	19.6	28.2	4.6	32	11	15	15	73
CAD-258	150	10.2	16.5	21.5	30.9	5.0	34	11	17	17	79
CAD-232	150	12.7	16.5	21.5	30.9	5.0	34	11	17	17	79
CAD-233	150	16.2	16.5	21.5	30.9	5.0	34	11	17	17	79
CAD-311	185	10.2	18.6	24.0	34.6	5.5	36	12	18	18	84
CAD-234	185	12.7	18.5	24.0	34.6	5.5	36	12	18	18	84
CAD-235	185	16.2	18.5	24.0	34.6	5.5	36	12	18	18	84
CAD-320	225	12.7	21.0	27.0	39.0	6.0	40	14	20	20	94
CAD-236	240	12.7	22.0	28.6	41.2	6.6	44	14	22	22	102
CAD-237	240	16.2	22.0	28.6	41.2	6.6	44	14	22	22	102
CAD-300	300	16.2	25.0	32.0	46.3	7.0	47	14	27	27	115
CAD-259	300	20.3	25.0	32.0	46.3	7.0	47	14	27	27	115
CAD-260	400	20.3	29.0	37.5	54.1	8.5	56	13	31	30	130
CAD-296	500	20.3	31.0	41.0	58.7	10.0	60	15	33	32	140
CAD-261	625	20.3	36.0	46.0	66.6	10.0	69	16	35	34	154
CAD-318	800	-	39.0	51.0	73.3	12.0	77	25	39	39	180
CAD-319	1000	-	43.5	57.0	81.9	13.5	100	30	45	45	220

Compression Type Aluminum Tubular Connectors

- Electrolytic high conductivity aluminum
- Electro tinned plated



Product Ref.	Conductor Size mm²	Dimensions mm		
		I	O	L
CAI-145	2.5	2.0	5.5	16
CAI-6	2.5	2.6	5.5	16
CAI-5	4.0	2.9	5.5	16
CAI-13	6.0	3.5	5.5	16
CAI-146	10.0	3.8	6.2	20
CAI-14	10.0	4.4	7.4	20
CAI-4	16.0	5.4	8.3	26
CAI-3	25.0	7.0	9.7	35
CAI-2	35.0	8.0	10.8	40
CAI-12	50.0	9.3	13.0	45
CAI-1	70.0	11.6	16.0	55
CAI-15	95.0	12.9	17.1	60
CAI-9	120.0	15.0	19.6	65
CAI-10	150.0	16.5	21.2	70
CAI-11	185.0	18.5	24.0	75
CAI-147	225.0	21.0	27.0	85
CAI-16	240.0	22.0	28.6	90
CAI-17	300.0	25.0	32.0	100
CAI-18	400.0	29.0	37.5	115
CAI-19	500.0	31.0	41.0	125
CAI-20	625.0	36.0	46.0	140
CAI-148	800.0	39.0	51.0	160
CAI-149	1000.0	43.5	57.0	210

CALTER®
CABLES CONNECTORS TOOLS

Check-list for New Inquiry of special Cable Lugs and Connectors

Customer / Company.....

Adress.....

Contact person.....

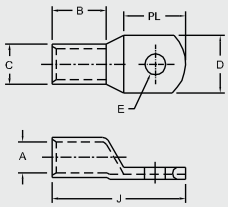
Customer No.....

Fax: .....

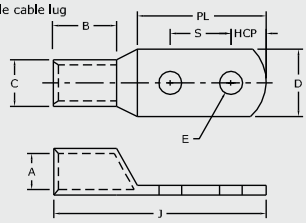
Phone.....

Drawings and Dimension: Please fill in all the required dimensions and necessary data (see nominal Dimension).

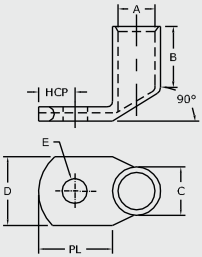
☐ Cable lug



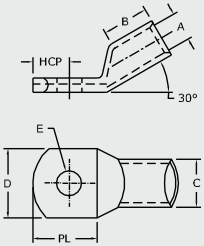
☐ Double hole cable lug



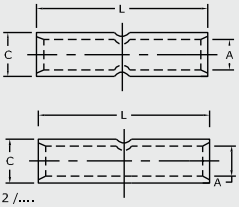
☐ Lug with ange from 30° to 90°



☐ Lug with ange 30°

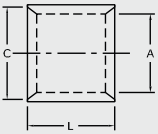


☐ Butt splice



Number of buttmark: 0 / 1 / 2 /....

☐ Parrelel connector



Other type acc. to your sketches / Remarks:

Nominal dimensions (mm)

Dimension A..... Dimension J.....

Dimension B..... Dimension L.....

Dimension C..... Dimension S.....

Dimension D..... Dimension PL.....

Dimension E..... Dimension HCP.....

Technical Data

Type of Conductor (if known).....

Section (Cable):.....

Inspection Hole (on cable lugs): ☐ Cable Lug ☐ DIN lug

Surface: ☐ bright ☐ tin plated ☐ nickel plated

Others:.....

Material: ☐ E-Cu ☐ E-Al 99.5

Others:.....

Commercial Data

Quantity / Annual requirement: .....

Requested delivery time.....

Sample: ☐ Yes ☐ No

Test repor of first sample: ☐ Yes ☐ No

Additional Information:

Date:.....

Signature (Customer):.....

Cable Ties

CALTER®
CABLES CONNECTORS TOOLS

Conductor size conversion chart

AWG(MCM)	mm^2	DIN/IEC mm^1
30	0.05	
28	0.05	
26	0.13	
24	0.20	
22	0.32	
18	0.81	
16	1.32	1.5
14	2.08	
12	3.33	4
10	5.27	6
8	8.30	
6	13.30	
5	16.78	16
4	21.09	
3	26.57	25
2	33.94	35
1	42.22	
1/0	53.52	50
2/0	67.51	70
3/0 MCM	85.16	95
4/0	107.22	95
250	126.68	120
300	152.01	150
350	177.38	185
400	202.68	
500	253.35	240
600	304.02	300
700	354.69	
750	380.03	400
800	405.36	400
900	456.03	
1000	506.7	500
1250	633.06	630

Roller Ball
• Ladder Coated / Uncoated

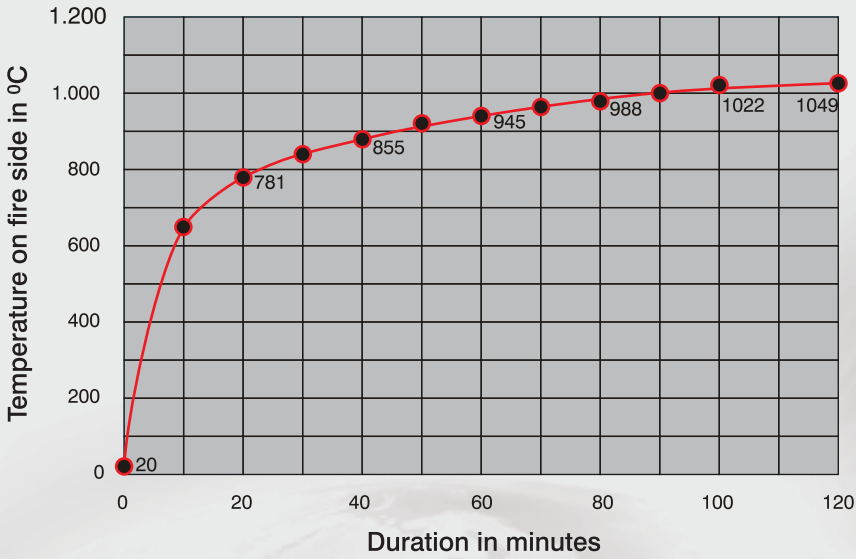
CALTER Stainless Steel Cable Ties offer a compact flame retardent cable fixing which will withstand 1000 F (538 ˚C) and still hold the cable in place.

CALTER Cable Ties specially designed for light weight and toughness are easy to fix non-corrosive and durable for use in bundling cables, wires, hoses etc. And virtually in all indoor / outdoor applications with exposure to the risks of fire or corrosion.

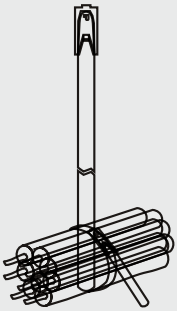
CALTER range includes:
- Corrosion resistant cable ties of stainless steel grade 316/304
- Standard lengths (other lengths on request)
- Coated and Uncoated
- Wide temperature range : -80 ˚C to +538 ˚C
- Width in 7mm and 4.6mm

CALTER cables conform to As3013

Fire Resistance Test
According toAS 1530.4 - 1990



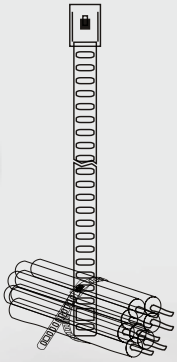
Stainless Steel Cable Ties
Type: Roller Ball



Stainless Steel Cable Ties
Type : Roller ball
Material : Stainless steel (cross section)
grade 316 & 304
Normal operating range : -80 ˚C to +538 ˚C
Minimum loop tensile strength : 44.5 kg.

Sr. No.	Cat. No.	Length (mm)	Width (mm)
1	CRB100	100	4.6
2	CRB150	150	4.6
3	CRB200	200	4.6
4	CRB360	360	4.6
5	CRB520	520	4.6
6	CRB680	680	4.6
7	CRB840	840	4.6
8	CRB1000	1000	4.6

Stainless Steel Cable Ties
Type: Ladder-Coated & Uncoated



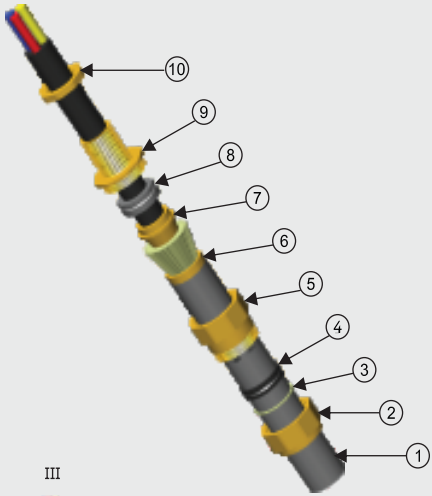
Stainless Steel Cable Ties
Type : Ladder coated & uncoated
Material : Stainless steel (cross section)
grade 316 & 304
Minimum loop tensile strength : 32 kg.

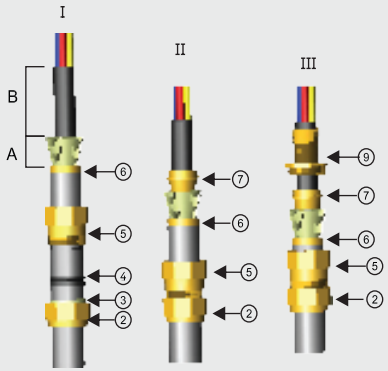
Sr. No.	Cat. No.	Length (mm)	Width (mm)
1	CSL150	150	7
2	CSL200	200	7
3	CSL225	225	7
4	CSL250	250	7
5	CSL300	300	7
6	CSL360	360	7
7	CSL450	450	7
8	CSL600	600	7
9	CSL610	610	7
10	CSL750	750	7
11	CSL1000	1000	7

Glands and Accessories

E1W GLAND Installation

1) Cable
2) Gland coverpart
3) Washer
4) Outer Packing
5) Main galnd bodypart
6) Armour Ring
7) Armour Cone
8) Inner Packing
9) Nippel Entery Part
10) Lock Nut





I) Prepare and seprate cable gland into 5 parts as above
Stripe cable to fit corresponding equipment as shown above Armour/Braid "A"

A: 20mm For cable gland size 16 to 32
A: 25-32mm (to suit lay braid) for cable glandsize 40 to 100
B: To suit equipment

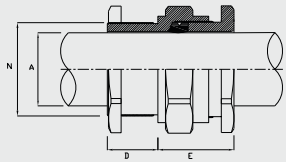
II) Push the cable through the lay braid(7)
spread armour/braid over the lay braid (7) until the end of the armour
and braid is up against the shoulder of the armour cone.
Position the wire braid (6)

III) Remove the inner packing (7) from the entry (9),
place the entry (9) and position over the lay braid (6).
Move the sub-assembly (2) up to contact the entery (9).

Cable Glands : Type A2

Application :
In outdoor or indoor with unarmoured lead sheathed unarmoured or braided cable.

Function :
A2 glands offer a dustproof seal on to the outer sheath of an unarmoured, or braided cable.



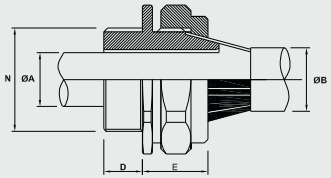
Standard : Bs 6121, Part 1:1989
Mechanical : Impact Resistant
Size : A2 20S - 90L
Material : Brass / Aluminium
Finish : Matt / Nickel
Gasket : Neoprene
Shrouds : PVC / LSF
Kits : A2 Gland, Shrouds, Locknut and Earth tag

A2 TYPE GLAND SPECIFICATIONS						
GLAND SIZE	Entry Threads		Cable Acceptance Details	Hexagonal Details		PVC
	Dia	Length	Dia	A/F	A/C	Shroud
	'N'	'D'	A	'E'	'C'	Size
A2-20S	20	15	11.50	22.0	24.0	20S
A2-20L	20	15	15.00	24.0	26.0	20
A2-25S	25	15	17.00	28.0	32.0	25
A2-25L	25	15	20.50	30.0	34.0	25
A2-32S	32	15	24.00	38.0	42.0	32
A2-32L	32	15	26.50	41.0	45.0	32
A2-40S	40	20	29.50	45.0	51.0	40
A2-40L	40	20	34.20	50.0	55.0	40
A2-50S	50	20	41.20	59.0	65.0	50
A2-50L	50	20	45.20	60.0	67.0	50
A2-63S	63	20	51.00	70.0	77.0	63

Cable Glands : Type BW

Application :
In indoor areas with armoured or braided cable, including lead sheathed.

Function :
All glands offer clamping of the armour or braided.



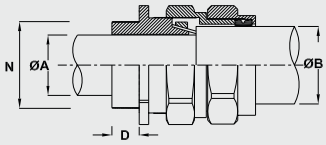
Standard : Bs 6121, Part 1:1989
Mechanical : Provides retention of armour or braid
Size : BW 20s - 90L
Material : Brass / Aluminium
Finish : Matt / Nickel
Shrouds : Pvc / Lsf
Kits : BW Gland, Pvc Shrouds, Locknut and Earth tag

BW TYPE GLAND SPECIFICATIONS							
GLAND SIZE	Entry Threads		Cable Acceptance Details		Hexagonal Details		PVC
	Dia	Length	Dia	Dia	A/F	A/C	Shroud
	'N'	'D'	'A'	'B'	'E'	'C'	Size
BW-20S	20	15	10	11.50	22.0	24.0	20S
BW-20L	20	15	10	14.30	25.0	28.0	20
BW-25S	25	15	10	16.20	31.0	34.0	25
BW-25L	25	15	10	21.00	34.0	38.0	25
BW-32S	32	15	10	25.70	35.0	40.0	32
BW-32L	32	15	10	25.50	40.0	45.0	32
BW-40S	40	20	15	30.20	48.0	54.0	40
BW-40L	40	20	15	32.20	49.0	55.0	40
BW-50S	50	20	15	39.70	57.0	63.0	50
BW-50L	50	20	15	43.50	61.0	68.0	50
BW-63S	63	20	15	50.00	68.00	76.00	63
BW-63L	63	20	15	55.00	74.0	83.0	63
BW-75S	75	20	15	62.00	83.00	88.00	75
BW-75L	75	20	15	67.20	89.0	100.0	75
BW-90	90	20	20	84.00	100.00	110.0	90

Cable Glands : Type CW

Application :

In outdoor areas with armoured or braided cable, including lead sheathed.



Function :

All glands offer clamping of the armour or braid and a weather seal to the outer sheath of the cable.

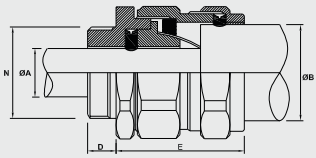
Standard : BS 6121, Part 1:1989
Mechanical armour : Provides retention of or braid impact resistant
Size : CW 20S - 90L
Material : Brass / Aluminium
Finish : Matt / Nickel
Gasket : Neoprene
Shrouds : Pvc / Lsf
Kits : CW Gland, Shrouds, Locknut and Earth tag

CW TYPE GLAND SPECIFICATIONS							
GLAND SIZE	Entry Threads		Cable Acceptance Details		Hexagonal Details		PVC
	Dia	Length	Dia	Dia	A/F	A/C	Shroud
	N'	D'	A'	B'	F'	C'	S'
CW-20S	20	15	11.80	17.80	24.00	27.00	20S
CW-20L	20	15	15.00	20.80	27.70	31.00	20
CW-25S	25	15	17.60	24.00	31.50	35.00	25
CW-25L	25	15	20.00	27.40	35.00	39.00	25
CW-32S	32	15	25.70	32.20	43.00	47.50	32
CW-32L	32	15	26.00	34.20	43.00	47.50	32
CW-40S	40	20	30.40	38.00	51.50	57.00	40
CW-40L	40	20	33.20	40.50	51.50	57.00	40
CW-50S	50	20	39.70	47.00	58.50	65.00	50
CW-50L	50	20	43.50	54.00	66.00	73.00	50
CW-63S	63	20	51.50	61.00	72.00	80.00	63
CW-63L	63	20	55.00	66.00	80.00	89.00	63
CW-75S	75	20	62.50	74.50	86.50	97.00	75
CW-75L	75	20	67.80	77.50	94.00	105.00	75
CW-90	90	20	84.00	96.00	106.00	118.00	90

Also Avaliable
Without Armour Ring
With Knurling Inside

Cable Glands : Type E1W

Application :
In outdoor or deluge areas with armoured or braided cable, including lead sheathed.



Function :
All glands offer a dust-proof seal on to the inner sheath of the cable, clamping
of the armour or braid and a weather seal to the outer sheath of the cable.

Standard : Bs 6121, Part 1:1989
Mechanical : Provides retention of armour or braid impact resistant
Size : E1W 20S - 90L
Material : Brass / Aluminium
Finish : Matt / Nickel
Gasket : Neoprene
Shrouds : Pvc / Lsf
Kits : E1W Gland, Shrouds, Locknut and Earth tag

E1W TYPE GLAND SPECIFICATIONS

GLAND SIZE	Entry Threads		Cable Acceptance Details		Hexagonal Details		PVC
	Dia 'N'	Length 'D'	Dia 'A'	Dia 'B'	A/F 'F'	A/C 'C'	Shroud Size
E1W-20S	20	10	11.70	16.00	24.00	27.00	20S
E1W-20L	20	10	14.00	21.00	27.70	31.00	20
E1W-25L	25	15	20.00	27.40	35.00	39.00	25
E1W-32L	32	15	26.00	34.00	43.00	47.50	32
E1W-40L	40	15	33.20	40.00	51.50	57.00	40
E1W-50S	50	20	38.20	46.70	58.50	65.00	50
E1W-50L	50	20	44.10	53.00	66.00	73.00	50
E1W-63S	63	20	50.00	59.50	72.00	80.00	63
E1W-63L	63	20	56.00	65.50	80.00	89.00	63
E1W-75S	75	20	62.00	72.20	86.50	97.00	75
E1W-75L	75	20	68.00	78.00	94.00	105.00	75
E1W-90	90	20	84.00	96.00	106.00	118.00	90

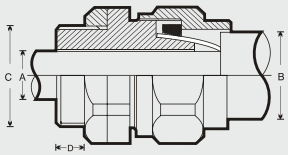
Cable Glands : Type Alco

Application :
Dry indoor for use with all type of swa cables.

Function :
Provides for armour clamp only.

Standard : BS 6121, Part 1:1989
Mechanical : Provides retention of armour or braid impact resistant
Size : G 204 - G755
Material : Brass / Aluminium
Finish : Nickel
Shrouds : Pvc / Lsf

SIZE	THREAD SIZE 'C'		MIN. LENGTH OF THREAD 'D'	CABLE RANGE	
	MM	INCH		MAX 'A'	MAX 'B'
G - 204	20	3/4	8.8	11.50	17.00
G - 206	20	3/4	8.8	13.80	20.00
G - 254	25	1	9.5	16.30	22.50
G - 256	25	1	9.5	18.80	26.00
G - 324	32	1 1/4	10	22.80	30.00
G - 326	32	1 1/4	10	26.50	33.00
G - 405	40	1 1/2	15	32.50	41.30
G - 503	50	2	15	38.80	48.80
G - 505	50	2	15	44.50	54.50
G - 636	63	2 1/2	15	56.00	67.50
G - 753	75	3	20	61.00	72.50
G - 755	75	3	20	67.50	79.00



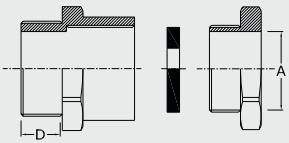
Cable Glands : Type PG

Application :
In outdoor or indoor areas with armoured braided unarmoured or lead sheathed unarmoured cable where it is essential to produce ip55 seal on the inner sheath.

Function :
Offer a dustproof seal on to the outer sheath of an armoured, braided or armoured cable.

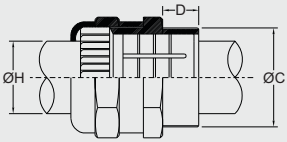
Standard : As per german standard
Mechanical : Impact resistant.
Size : PG - 9 to PG - 48
Material : Brass.
Finish : Nickel
Gasket : Neoprene (Onion type)

SIZE	THREAD LENGTH	CABLE MAXIMUM	HEXAGONAL DETAILS	
	'D'	MAX 'A'	A/F	A/C
PG- 7	8	9	15	17.5
PG- 9	8	12	18	20
PG- 11	8	15	22	23
PG- 13.5	10	16	24	26
PG- 16	10	18	25	27
PG- 21	10	24	30	33
PG- 29	10	32	42	48
PG- 36	12	42	50.5	58.5
PG- 42	12	47.5	60	66
PG- 48	15	52	67	73.5



Brass Cable Glands : IP 68 PG Glands

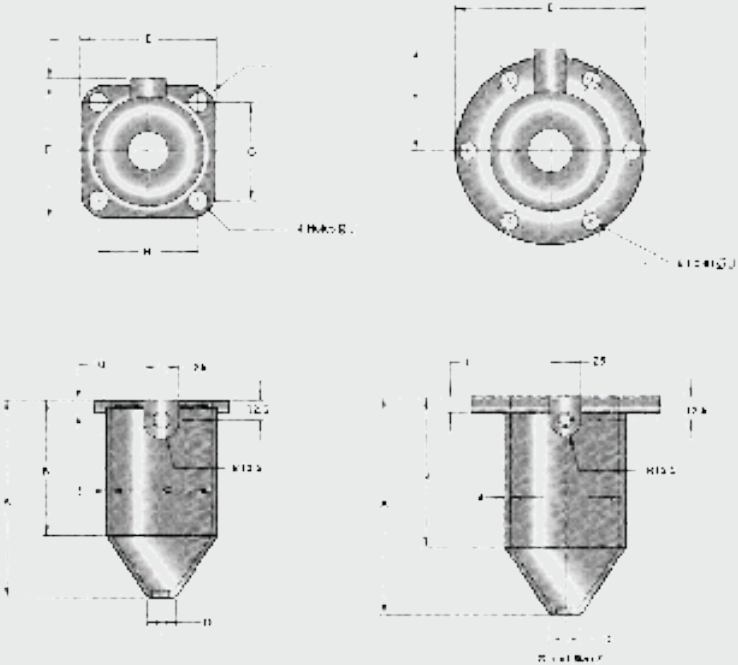
Description : Brass Cable Glands With PCP (Neoprene) Rubber Gasket ,O Ring & Polymide 6 traction Relief Clamping Insert.



Characteristics : Temprature Range - 40 to 80 Degree C
Protection Class - Water Rating IP 68. Pressure

Specification For IP 68 Glands							
Gland Size	Thread Length D	Cable Dimension		Ø C	Ø H	A/F	A/C
		Mini A	Max B				
PG-7	5	3.0	6.5	6.6	6.6	14	15.55
PG-9	6	4.0	9.5	9.7	10	17	19
PG-11	6	6.0	11.5	11.7	12	20	22
PG-13.5	6	7.0	13.0	13.2	13.5	22	24
PG-16	6.5	8.0	15.0	15.2	15.5	24	26.6
PG-21	7	11.0	19.0	19.5	19.5	30	33
PG-29	8	16.0	26.0	26	26.5	40	44
PG-36	9	22.0	34.5	34.5	35	50	55.5
PG-42	10	27.0	40.0	40.5	41	58	63
PG-48	10	35.0	48.0	48.5	50	64	70

Brass Wiping Glands

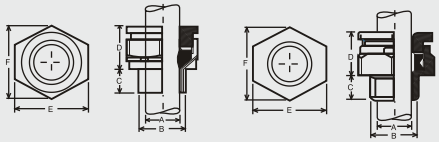


Gland Size	Dial over metal sheath of cable (mm)	Overall Diameter 'A'										Cat#
		A	B	C	D	E	F	G	H	J	R	
X	12 to 51	137	90	60	19	19	90	66	66	12	12	CWX
Y	25 to 78	155	95	89	32	114	123	95	86	14	14	CWY
Z	25 to 94	195	140	108	32	190	100	-	-	14	-	CWZ

Brass Extruded Cable Glands : Type A1/A2

Application :
For most indoor and outdoor applications

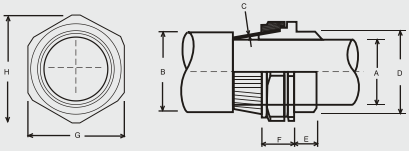
Function :
Suitable for unarmoured, plastic or rubber sheathed cables



Standard : BS 6121: Pt 1
Mechanical : Provides retention of armour or braid
Size : A1/A2 16 to 110
Material : BS 2874 (Cz121) Brass
Finish : Matt / Nickel
Gasket : Seal rated to IP66
kits : A1/A2 Gland, Shrouds, Locknut and Earth tag

Cable Dimensions Accommodated Overall Dia. A		Gland Reference		Gland Dimensions					Accessories		
		Size	Design No.	ISO Entry Thread		Approx. Length From Shoulder	Hexagon Size		Brass Backnut	Shroud Design Number	
							Across Flats	Across Corners	Design No.		
Min mm	Max. mm			Dia. B Mm	Length C mm	D mm	E mm	F mm		Pvc	Pcp
3.5	8.5	16	CCW 51	16	10	20	19.0	21.5	CC 51	CPV 01	-
3.5	8.5	20SS	CCW 71	20	10	20	19.0	24.9	CC 53	CPV 01	PCP 02
8.0	11.5	20S	CCW 52	20	10	22	20.6	24.9	CC 53	CPV 01	PCP 02
11.0	13.5	20	CCW 53	20	10	22	20.6	24.9	CC 53	CCV 02	PCP 02
13.0	19.5	25	CCW 55	25	10	25	30.5	34.0	CC 55	CCV 23	PCP 03
19.0	25.5	32	CCW 56	32	10	25	41.0	45.5	CC 56	CCV 50	PCP 05
25.0	32.0	40	CCW 57	40	15	33	47.0	53.3	CC 57	CCV 26	PCP 06
31.0	37.0	50S	CCW 58	50	15	30	55.0	60.0	CC 59	CCV 07	PCP 07
36.5	43.0	50	CCW 59	50	15	30	56.4	61.5	CC 59	CCV 07	PCP 07
42.5	50.0	63S	CCW 60	63	15	34	70.1	77.2	CC 61	CCV 09	PCP 09
49.5	55.0	63	CCW 61	63	15	32	75.0	83.0	CC 61	CCV 11	PCP 11
54.5	61.0	75S	CCW 62	75	15	32	80.0	87.4	CC 63	CCV 11	PCP 11
60.5	67.0	75	CCW 63	75	15	40	85.0	95.0	CC 63	CCV 12	PCP 11
65.0	78.0	90	CCW 65	90	20	45	106.0	117.0	CC 65	CCV 34	PCP 13
75.0	88.0	100	CCW 66	100	20	45	115.0	126.0	CC 66	CCV 34	-
79.0	99.0	110	CCW 67	110	20	55	-	132.0	CC 67	CCV 36	-

Brass Extruded Cable Glands : Type BW



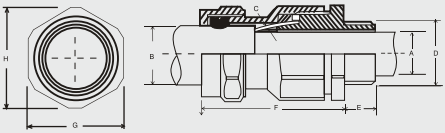
Application :
For use in dry, indoor situations

Function :
All glands offer clamping of the armour or braided

Standard : BS 6121: Pt 1
Mechanical : Provides retention of armour or braid
Size : BW 16 to 75
Material : BS 2874 (Cz121) Brass
Finish : Matt / Nickel
Gasket : Seal rated to IP66
kits : BW Gland, Shrouds, Locknut and Earth tag

Cable Dimensions Accommodated					Gland Reference		Gland Dimensions					Accessories		
Diameter				Armour Wire Diameter			ISO Entry Thread		Approx. Length From Shoulder	Hexagon Size				
Under Armour A		Overall B					Dia	Length		Across Flats	Across Corners	Brass Backnut No.	Shoulder Design No.	
Min mm	Max. mm	Min mm	Max mm	C mm	Size	Design No	D mm	E mm	F mm	G mm	H mm		PVC	PCP
-	8.6	-	13.2	0.9	16	CBW16	16	10	21	20.8	23.6	AA 51	01	01
-	11.6	-	15.8	0.9/1.25	20S	CBW20S	20S	10	24	22.0	24.9	AA 53	02	02
-	13.9	-	20.8	0.9/1.25	20	CBW20	20	10	25	27.0	30.5	AA 53	03	03
-	19.9	-	27.2	1.25/1.8	25	CBW25	25	10	26	37.6	42.2	AA 55	05	05
-	26.2	-	33.5	1.6/2.0	32	CBW32	32	10	28	47.3	53.6	AA 56	06	06
-	32.1	-	39.9	1.6/2.0	40	CBW 40	40	15	25	50.0	57.0	AA 57	07	07
-	38.1	-	46.2	2.0/2.6	50S	CBW 50	50	15	36	70.1	77.2	AA 59	09	09
-	44.0	-	52.6	2.0/2.6	50	CBW 63	63	15	30	80.0	87.4	AA 61	11	11
-	55.9	-	65.3	2.5	63	CBW 61	75S	15	40	86.0	95.0	AA 63	13	13
-	67.9	-	78.0	2.5	76	CBW 75	75	15	40	98.8	109.2	AA 63	13	13

Brass Extruded Cable Glands : Type CW



Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Application :
In outdoor areas with armoured or braided cable, including lead sheathed.

Function :
All glands offer clamping of the armour or braid and a weather seal to the outer sheath of the cable.

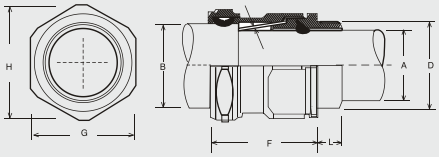
Standard : BS 6121, Part 1
Mechanical : Provides retention of armour or braid impact resistant
Size : CW 20S - 75L
Material : BS 2874 (Cz121) Brass
Finish : Matt / Nickel
Gasket : Seal rated to IP66
Shrouds : Pvc / Lsf
Kits : CW Gland, Shrouds, Locknut and Earth tag

Cable Dimensions Accommodated				Gland Reference		Gland Dimensions					Accessories	
Under Armour A	Overall B		Armour Wire Diameter	Size		ISO Entry Thread		Approx. Length From Shoulder	Hexagon Size			
						Dia	Length		Across Flats	Across Corners	PCP SHROUD No.	Brass Backnut No.
Max. mm	Min mm	Max. mm	C mm	Size	Design No	D mm	E mm	F mm	G mm	H mm		
8.6	8.0	13.2	0.9	16	CCW16	16	10	44	23.4	26.7	AA 02	BB 51
11.6	8.0	15.8	0.9/1.25	20S	CCW20S	20	10	46	25.7	29.2	AA 02	BB 53
13.9	11.7	20.8	0.9/1.25	20	CCW20	20	10	46	30.5	34.0	AA 03	BB 53
19.9	17.0	27.2	1.25/1.8	25	CCW25	25	10	61	37.6	42.2	AA 05	BB 55
26.2	23.5	33.5	1.6/2.0	32	CCW32	32	10	66	47.3	63.6	AA 06	BB 56
32.1	29.0	39.9	1.6/2.0	40	CCW40	40	15	69	56.4	61.5	AA 07	BB 57
38.1	38.0	46.2	2.0/2.6	50S	CCW50S	50	15	64	65.5	72.1	AA 09	BB 58
44.0	39.5	52.6	2.0/2.6	50	CCW50	50	15	64	70.1	77.2	AA 09	BB 59
55.9	51.3	65.3	2.5	63	CCW63	63	15	67	80.0	87.4	AA 11	BB 61
67.9	62.5	78.0	2.5	76	CCW76	76	15	76	96.8	109.2	AA 13	BB 63
74.0	68.0	88.0	3.15	85	CCW85	85	20	110	115	126.0	APV 34 (PVC)	BB 64

Brass Extruded Cable Glands : Type E1W

Application :

For use in most climatic conditions, weatherproof and waterproof



Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Function :

Suitable for single galvanised steel wire armoured, plastic or rubber sheathed, extruded bedding cables

Standard : BS 6121: Pt 1
Mechanical : Use of suitable sealing washer or thread sealant at gland interface
Size : E1W 16 to 75
Material : BS 2874 (Cz121) Brass
Finish : Matt / Nickel
Gasket : Inner & Outer seal rated to IP66
kits : E1W Gland, Shrouds, Locknut and Earth tag

Cable Dimensions Accommodated					Gland Reference		Gland Dimensions					Accessories pcp shroud
Diameter				Armour Wire Diameter			ISO Entry Thread		Approx. Length From Shoulder	Hexagon Size		
Under Armour A		Overall B					Dia	Length		Across Flats	Across Corners	
Min mm	Max. mm	Min mm	Max. mm	C mm	Size	Design No	D mm	E mm	F mm	G mm	H mm	DESIGN No.
3.81	8.74	8.0	13.2	0.9	16	CE1W51	16	15.0	44	23.4	26.7	ECP 02
3.81	8.74	8.0	13.2	0.9	20SS	CE1W71	20	15.0	44	23.4	26.7	ECP 02
8.00	11.79	8.0	15.8	0.9/1.25	20S	CE1W52	20	15.0	46	25.7	29.2	ECP 02
11.79	14.15	11.7	20.8	0.9/1.25	20	CE1W53	20	15.0	46	30.5	34.0	ECP 03
14.0	20.12	17.0	27.2	1.25/1.6	25	CE1W55	25	15.0	51	37.6	42.2	ECP 05
19.70	26.55	23.5	33.5	1.6/2.0	32	CE1W56	32	15.0	56	47.3	53.6	ECP 06
26.55	32.42	29.0	39.9	1.6/2.0	40	CE1W57	40	15.0	59	56.4	61.5	ECP 07
32.42	38.39	38.0	46.2	2.0/2.5	50S	CE1W58	50	15.0	64	60.0	72.1	ECP 09
38.39	44.33	39.5	52.6	2.0/2.5	50	CE1W59	50	15.0	64	70.1	77.2	ECP 09
44.33	50.27	50.0	58.9	2.5	63S	CE1W60	63	15.0	67	75.0	87.4	ECP 11
50.27	56.24	51.3	65.3	2.5	63	CE1W61	63	15.0	67	80.0	87.4	ECP 11
56.24	62.18	62.0	71.6	2.5	75S	CE1W62	75	15.0	76	90.2	99.1	ECP 13
62.18	68.13	62.5	78.0	2.5	75	CE1W63	75	15.0	76	98.8	109.2	ECP 13

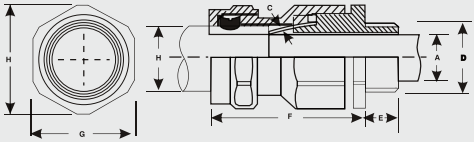
Aluminium Extruded Cable Glands : Type CW

Application :

For use in most climatic conditions weatherproof and waterproof

Function :

Suitable for single wire armoured, plastic or rubber sheathed cables



Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Standard : BS 6121: Pt 1
Mechanical : Provides retention of armour or braid, impact resistent
Size : CW 16 to 75
Material : Aluminium
Finish : Matt / Bright
Gasket : Neoprene - IP66
kits : CW Gland, Shrouds, Locknut and Earth tag

Cable Dimensions Accommodated					Gland Reference		Gland Dimensions					Accessories	
Diameter				Armour Wire Diameter			ISO Entry Thread		Approx. Length From Shoulder	Hexagon Size			
Under Armour A		Overall B					Dia	Length		Across Flats	Across Corners	Aluminum BACKNUT No.	Shrouds DESIGN No.
Min mm	Max. mm	Min mm	Max. mm	C mm	Size	Design No	D mm	E mm	F mm	G mm	H mm		PCP
-	11.6	8.0	15.8	0.9/1.25	16	CEW51	16	10	44	23.4	26.7	EE 51	ECP 02
-	13.9	11.7	20.8	0.9/1.25	20SS	CEW71	20	10	44	23.4	26.7	EE 53	ECP 02
-	19.9	17.0	27.2	1.25/1.6	20S	CEW52	20	10	46	25.7	29.2	EE 53	ECP 02
-	26.2	23.5	33.5	1.6	20	CEW53	20	10	46	30.5	34.0	EE 53	ECP 03
-	32.1	29.0	39.9	1.25/1.6	25	CEW55	25	10	51	37.6	42.2	EE 55	ECP 05
-	38.1	38.0	46.2	1.6/2.0	32	CEW56	32	10	56	47.3	53.6	EE 56	ECP 06
-	44.0	39.5	52.6	1.6/2.0	40	CEW57	40	15	59	56.4	61.5	EE 57	ECP 07
-	56.9	51.3	65.3	2.0/2.5	50S	CEW58	50	15	64	60.0	72.1	EE 59	ECP 09
-	67.9	62.5	78.0	2.0/2.5	50	CEW59	50	15	64	70.1	77.2	EE 59	ECP 09

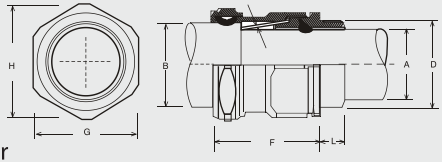
Aluminium Extruded Cable Glands : Type E1W

Application :

For use in most climatic conditions weatherproof and waterproof

Function :

Suitable for aluminium wire armoured, plastic or rubber sheathed cables



Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

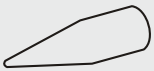
Standard : BS 6121: Pt 1
Mechanical: Provides retention of armour or braid, impact resistent
Size : E1W 16 to 75
Material : Aluminium
Finish : Matt / Bright
Gasket : Inner & Outer seal rated to IP66
kits : E1W Gland, Shrouds, Locknut and Earth tag

Cable Dimensions Accommodated					Gland Reference		Gland Dimensions					Accessories	
Diameter				Armour Wire Diameter			ISO Entry Thread		Approx. Length From Shoulder	Hexagon Size			
Under Armour A		Overall B					Dia	Length		Across Flats	Across Corners	Aluminum BACKNUT No.	Shrouds DESIGN No. PCP
Min mm	Max. mm	Min mm	Max. mm	C mm	Size	Design No	D mm	E mm	F mm	G mm	H mm		
6.3	8.6	8.0	13.2	0.9	16	CEW51	16	10	44	23.4	26.7	EE 51	ECP 02
6.3	8.6	8.0	13.2	0.9	20SS	CEW71	20	10	44	23.4	26.7	EE 53	ECP 02
8.7	11.6	8.0	15.8	0.9/1.25	20S	CEW52	20	10	46	25.7	29.2	EE 53	ECP 02
11.7	13.9	11.7	20.8	0.9/1.25	20	CEW53	20	10	46	30.5	34.0	EE 53	ECP 03
13.0	19.9	17.0	27.2	1.25/1.6	25	CEW55	25	10	51	37.6	42.2	EE 55	ECP 05
20.0	26.2	23.5	33.5	1.6/2.0	32	CEW56	32	10	56	47.3	53.6	EE 56	ECP 06
26.3	32.1	29.0	39.9	1.6/2.0	40	CEW57	40	15	59	56.4	61.5	EE 57	ECP 07
32.3	38.1	38.0	46.2	2.0/2.5	50S	CEW58	50	15	64	60.0	72.1	EE 59	ECP 09
38.3	44.0	39.5	52.6	2.0/2.5	50	CEW59	50	15	64	70.1	77.2	EE59	ECP 09
44.1	50.0	50.0	58.9	2.5	63S	CEW60	63	15	67	75.0	87.4	EE 61	ECP 11
50.1	55.9	51.3	65.3	2.5	63	CEW61	63	15	67	80.0	87.4	EE 61	ECP 11
56.0	61.9	62.0	71.6	2.5	75S	CEW62	75	15	76	90.2	99.1	EE 63	ECP 13
62.0	67.9	62.5	78.0	2.5	75	CEW63	75	15	76	98.8	100.2	EE 63	ECP 13

Accessories

Earth Tags

Available in many shapes and in all sizes.
Manufactured in brass/copper with or without brass/MS screw.
It may be coated or plated as per customer specifications.

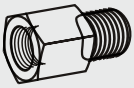


Shrouds

For all types of glands, to provide additional protection and to enhance the IP rating of the gland termination.
Available to suit different sizes with embossing of the size on the product.

Locknuts

Used to fasten glands to the gland plate.
Available in metric, inch & PG threads.



Adaptors

Used to fit a gland into a smaller hole than the gland thread.
Only one step down in size is permitted.

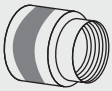
Reducers

Used to fit a gland into a larger hole than the gland thread.

Accessories

Male Adaptor

A one part fitting having male
metric threaded at one end and other female threaded
at the other end to accept a fleedble conduit.

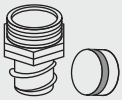


Female Adaptor

A one part fitting having female
metric threaded at one end and other female threaded
at the other end to accept a fleedble conduit.

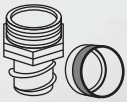
Plain Hole Connector

A two-part fitting comprising of a ferrule and a body with
a plain hole.
The body is fitted through the opposite side of the entry to the
conduits and acts as a locking device while providing a smooth
entry bush.



Connector Male Thread (Flexible Conduits)

A two-part fitting comprising of a ferrule and a body with a
male thread.
This fitting can be inserted into a knock out and secured with
a locknut.



Connector Female Thread (Flexible Conduits)

A two-part fitting comprising of a ferrule and a body with a
female thread.
This fitting can be inserted into a knock out and secured
with a locknut.

CALTER®
CABLES CONNECTORS TOOLS

AYFY 1.9 / 3.3 KV
3 Core Armoured Power Cable

Cable Construction Details		Single Compression Type		Double Compression Type		
Nos. of Cores	Overall Dia	Size / Nipple Entry	Heavy Duty	Weatherproof CDW	Flameproof (CDF)	Nipple Entry for W/P & F/P
3 X 25	29.0	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/2"
3 X 35	31.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"
3 X 50	34.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
3 X 70	37.0	1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
3 X 95	41.0	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
3 X 120	44.0	1 3/4" / 2"	CSC 2"	CDW 09	CDF 09	2"
3 X 150	47.0	2"	CSC 2" L	CDW 010	CDF 010	2"
3 X 150	50.0	2 1/4" / 2 1/2"	CSC 2 1/2"	CDW 010	CDF 010	2"
3 X 185	55.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 225	56.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 240	62.0	2 3/4" / 3"	CSC 3"	CDW 012	CDF 012	3"
3 X 300	69.0	3" / 3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"
3 X 400	77.0	3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"

AYFY 3.8 / 6.6 KV
3 Core Armoured Power Cable

3 X 25	35.0	1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
3 X 35	37.0	1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
3 X 50	40.0	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
3 X 70	44.0	1 3/4" / 2"	CSC 2" L	CDW 09	CDF 09	2"
3 X 95	47.0	2"	CSC 2" L	CDW 010	CDF 010	2"
3 X 120	50.0	2 1/4" / 2 1/2"	CSC 2 1/2"	CDW 010	CDF 010	2"
3 X 150	54.0	2 1/4" / 2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 150	57.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 185	61.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 225	63.0	2 3/4" / 3"	CSC 3"	CDW 012	CDF 012	3"
3 X 240	67.0	3" / 3 1/4"	CSC 3 1/4"	CDW 012	CDF 012	3"
3 X 300	73.0	3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"
3 X 400	79.0	3 1/2" / 3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"

AYFY 6.6 KV
3 Core Armoured Power Cable

3 X 25	38.0	1 1/2"	CSC 1 1/2" L	CDW 08	CDF 08	2"
3 X 35	40.0	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
3 X 50	43.0	1 3/4" / 2"	CSC 2"	CDW 09	CDF 09	2"
3 X 70	47.0	2"	CSC 2" L	CDW 010	CDF 010	2"
3 X 95	50.0	2 1/4" / 2 1/2"	CSC 2 1/2"	CDW 010	CDF 010	2"
3 X 120	51.0	2 1/4" / 2 1/2"	CSC 2 1/2"	CDW 010	CDF 010	2"
3 X 150	57.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 150	60.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 185	64.0	2 3/4" / 3"	CSC 3"	CDW 012	CDF 012	3"
3 X 225	66.0	2 3/4" / 3"	CSC 3"	CDW 012	CDF 012	3"
3 X 240	71.0	3" / 3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"
3 X 300	76.0	3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"
3 X 400	83.0	3 1/2"	SP.1	CDW 014	CDF 014	3 1/2"

CALTER®
CABLES CONNECTORS TOOLS

AYY 6.50 / 1.1 KV
1 Core Unarmoured Cable

Cable Construction Type		Single Compression Type		Double Compression Details		
Nos. of Cores	Overall Dia	Size / Nipple Entry	Heavy Duty	Weatherproof CDW	Flameproof (CDF)	Nipple Entry for W/P & F/P
1x4	9.5	5/8”	CSC 5/8"	CDW 01 S	CDF 01 S	3/4"
1x6	10.0	5/8”	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x10	11.0	5/8” / 3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x16	12.5	5/8” / 3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x25	14.0	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x35	15.0	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x50	16.5	1"	CSC 1"	CDW 01 A	CDF 01 A	1"
1x70	19.0	1"	CSC 1"	CDW 02	CDF 02	1"
1x95	21.0	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04 A	CDF 04 A	1 1/4"
1x120	23.0	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04 A	CDF 04 A	1 1/4"
1x150	24.5	1 1/4" / 1 1/2"	CSC 1 1/4"	CDW 04 A	CDF 04 A	1 1/4"
1x185	27.0	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/4"
1x225	29.5	1 3/8" / 1 1/2"	CSC 1 1/2"	CDW 05 A	CDF 05 A	1 1/2"
1x240	32.0	1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"
1x300	39.0	1 3/4” / 1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
1x400	39.0	2"	CSC 2"	CDW 08	CDF 08	2"
1x500	42.0	2"	CSC 2"	CDW 09	CDF 09	2"
1x625	47.0	2 1/4" / 2 1/2"	CSC 2 1/2"	CDW 010 A	CDF 010 A	2 1/2"
1x800	52.0	2 1/2"	CSC 2 1/2"	CDW 010 A	CDF 010 A	2 1/2"
1x1000	57.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"

AYY 6.50 / 1.1 KV
1 Core Armoured Cable

1x4	12.3	5/8"	CSC 5/8"	CDW 01 S	CDF 01 S	3/4"
1x6	12.8	5/8"	CSC 5/8"	CDW 01 S	CDF 01 S	3/4"
1x10	13.8	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x16	15.3	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
1x25	16.8	7/8" / 3/4"	CSC 3/4" L	CDW 01 S	CDF 01 S	3/4"
1x35	17	7/8" / 3/4"	CSC 3/4" L	CDW 01 S	CDF 01 S	3/4"
1x50	18.5	1"	CSC 1"	CDW 01 A	CDF 01 A	1"
1x70	21	1"	CSC 1"	CDW 02	CDF 02	1"
1x95	23	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04 A	CDF 04 A	1 1/4"
1x120	25	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04 A	CDF 04 A	1 1/4"
1x150	26	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04 A	CDF 04 A	1 1/4"
1x185	29	1 1/4"	CSC 1 1/4"	CDW 05	CDF 05	1 1/4"
1x225	31.5	1 3/8" / 1 1/2”	CSC 1 1/2" L	CDW 05 A	CDF 05 A	1 1/2"
1x240	33.5	1 3/8" / 1 1/2”	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"
1x300	36	1 1/2”	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
1x400	41	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
1x500	43	2"	CSC 2"	CDW 09	CDF 09	2"
1x625	49	2 1/4" / 2 "	CSC 2" L	CDW 010 A	CDF 010 A	2 1/2"
1x800	54	2 1/4" / 2 1/2”	CSC 2 1/2" L	CDW 010 A	CDF 010 A	2 1/2"
1x1000	59	2 1/2”	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"

CALTER®
CABLES CONNECTORS TOOLS

AYWY 6.50 / 1.1 KV 2 Core Power Cable

Cable Construction Details		Single Compression Type		Double Compression Type		
Nos. of	Overall Dia Cores	Size / Nipple Entry	Heavy Duty	Weatherproof CDW	Flameproof (CDF)	Nipple Entry for W/P & F/P
2 x 1.5	15.0	5/8" / 3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
2 x 2.5	16.0	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
2 x 4	17.5	7/8" / 1"	CSC 1"	CDW 01	CDF 01	3/4"
2 x 6	18.5	1"	CSC 1"	CDW 01	CDF 01	3/4"
2 x 10	20.5	1"	CSC 1"	CDW 02	CDF 02	1"

AYFY 6.50 / 1.1 KV 2 Core Power Cable

2 X 16	22.5	1"	CSC 1"	CDW 03	CDF 03	1"
2 X 25	25.0	1 1/8' / 1 1/4"	CSC 1 1/4"	CDW 04	CDF 04	1"
2 X 25	25.0	1 1/8' / 1 1/4"	CSC 1" L	CDW 04	CDF 04	1"
2 X 35	27.5	1 1/4"	CSC 1 1/4"	CDW 05	CDF 05	1 1/4'
2 X 50	32.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"

AYWY 6.50 / 1.1 KV 3 Core Power Cable

3 X 1.5	15.5	5/8" / 3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
3 X 2.5	17.0	7/8" / 1"	CSC 1"	CDW 01 S	CDF 01 S	3/4"
3 X 4	18.0	7/8" / 1"	CSC 1"	CDW 01	CDF 01	3/4"
3 X 6	19.5	1'	CSC 1"	CDW 02	CDF 02	1"

AYWY 6.50 / 1.1 KV 3 Core Power Cable

3 X 10	20.5	1"	CSC 1"	CDW 02	CDF 02	1"
3 X 16	23.5	1 1/8" / 1"	CSC 1" L	CDW 04	CDF 04	1"
3 X 25	23.5	1 1/8" / 1"	CSC 1" L	CDW 04	CDF 04	1"
3 X 35	25.5	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04	CDF 04	1"
3 X 50	29.0	1 1/4"	CSC 1 1/4"	CDW 05	CDF 05	1 1/4"
3 X 70	33.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"
3 X 95	37.0	1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
3 X 120	40.0	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
3 X 150	43.0	2"	CSC 2"	CDW 09	CDF 09	2"
3 X 185	49.0	2 1/4" / 2"	CSC 2" L	CDW 010	CDF 010	2"
3 X 225	54.0	2 1/4" / 2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 240	56.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3 X 300	62.0	2 3/4" / 3"	CSC 3"	CDW 012	CDF 012	3"
3 X 400	68.0	3"	CSC 3"	CDW 012	CDF 012	3'

CALTER®
CABLES CONNECTORS TOOLS

AYFY 6.50 / 1.1 KV 3.5 Core Power Cable

Cable Construction Details		Single Compression Type		Double Compression Type		
Nos. of Cores	Overall Dia	Size / Nipple Entry	Heavy Duty CDW	Weatherproof (CDF)	Flameproof for W/P & F/P	Nipple Entry
3.5 X 25	26.0	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04	CDF 04	1"
			CSC 1"L			
3.5 X 35	28.5	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/4"
3.5 X 50	32.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 05	CDF 06	1 1/2"
3.5 X 70	35.0	1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
3.5 X 95	40.0	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
3.5 X 120	43.0	2"	CSC 2"	CDW 09	CDF 09	2"
3.5 X 150	48.0	2"	CSC 2" L	CDW 010	CDF 010	2"
3.5 X 185	52.0	2 1/4" / 2 1/2"	CSC 2 1/2"	CDW 010	CDF 010	2"
3.5 X 225	58.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3.5 X 240	61.0	2 1/2"	CSC 2 1/2" L	CDW 011	CDF 011	2 1/2"
3.5 X 300	66.0	2 3/4" / 3"	CSC 3"	CDW 012	CDF 012	3"
3.5 X 400	74.0	3 1/4"	CSC 3 1/4"	CDW 013	CDF 013	3 1/4"

AYWY 6.50 / 1.1 KV 4 Core Power Cable

4 X 1.5	16.5	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
4 X 2.5	17.5	7/8" / 3/4"	CSC 3/4" L	CDW 01	CDF 01	3/4"
4 X 4	19.5	1"	CSC 1"	CDW 02	CDF 02	1"

AYFY 6.50 / 1.1 KV 4 Core Power Cable

4 X 6	19.5	1"	CSC 1"	CDW 02	CDF 02	1"
4 X 10	21.5	1"	CSC 1"	CDW 03	CDF 03	1"
4 X 16	25.5	1 1/8" /1 1/4"	CSC 1 1/4"	CDW 04	CDF 04	1"
4 X 25	26.0	1 1/8" /1 1/4"	CSC 1 1/4"	CDW 04	CDF 04	1"
4 X 35	28.5	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/4"
4 X 50	33.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"

CALTER®
CABLES CONNECTORS TOOLS

YWY & YFY 6.50 / 1.1 KV Control Cable

Cable Construction Details		Single Compression Type		Double Compression Type		
Nos. of Cores	Overall Dia	Size / Nipple Entry	Heavy Duty	Weatherproof CDW	Flameproof (CDF)	Nipple Entry for W/P & F/P
2 x 1.5	15.0	5/8"	CSC 5/8"	CDW 01 S	CDF 01 S	3/4"
3 X 1.5	15.5	5/8" / 3/4"	CSC3/4"	CDW 01 S	CDF 01 S	3/4"
4 X 1.5	16.5	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
5 X 1.5	17.0	7/8" / 3/4"	CSC 3/4" L	CDW 01 S	CDF 01 S	3/4"
6 X 1.5	18.0	1" / 3/4"	CSC 3/4" L	CDW 01	CDF 01	3/4"
7 X 1.5	18.0	1" / 3/4"	CSC 3/4" L	CDW 01	CDF 01	3/4"
10 X 1.5	20.0	1"	CSC 1"	CDW 02	CDF 02	1"
12 X 1.5	20.5	1"	CSC 1"	CDW 02	CDF 02	1"
14 X 1.5	20.5	1"	CSC 1"	CDW 02	CDF 02	1"
16 X 1.5	21.5	1"	CSC 1"	CDW 03	CDF 03	1"
19 X 1.5	21.0	1"	CSC 1"	CDW 03	CDF 03	1"
24 X 1.5	25.5	1 1/8"" / 1"	CSC 1" L	CDW 04	CDF 04	1"
27 X 1.5	26.0	1 1/8" / 1 1/4"	CSC 1 1/4"	CDW 04	CDF 04	1"
30 X 1.5	27.0	1 1/4"	CSC 1 1/4"	CDW 05	CDF 05	1 1/4"
37 X 1.5	29.0	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/4"
44 X 1.5	33.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"
52 X 1.5	34.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
61 X 1.5	36.0	1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"

YWY & YFY 6.50 / 1.1 KV Control Cable

2 x 2.5	16.0	3/4"	CSC 3/4"	CDW 01 S	CDF 01 S	3/4"
3 X 2.5	17.0	7/8" / 3/4"	CSC 3/4" L	CDW 01 S	CDF 01 S	3/4"
4 X 2.5	17.5	7/8" / 3/4"	CSC 3/4" L	CDW 01	CDF 01	3/4"
5 X 2.5	19.0	1"	CSC 1"	CDW 02	CDF 02	1"
6 X 2.5	20.5	1"	CSC 1"	CDW 02	CDF 02	1"
7 X 2.5	20.5	1"	CSC 1"	CDW 02	CDF 02	1"
10 X 2.5	21.0	1"	CSC 1"	CDW 03	CDF 03	1"
12 X 2.5	21.0	1"	CSC 1"	CDW 03	CDF 03	1"
14 X 2.5	23.5	1 1/8" / 1"	CSC 1" L	CDW 04	CDF 04	1"
16 X 2.5	24.5	1 1/8" / 1"	CSC 1" L	CDW 04	CDF 04	1"
19 X 2.5	25.5	1 1/8" / 1"	CSC 1" L	CDW 04	CDF 04	1"
24 X 2.5	29.5	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/4"
27 X 2.5	30.0	1 1/4" / 1 1/2"	CSC 1 1/2"	CDW 05	CDF 05	1 1/4"
30 X 2.5	32.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 06	CDF 06	1 1/2"
37 X 2.5	34.0	1 3/8" / 1 1/2"	CSC 1 1/2" L	CDW 07	CDF 07	1 1/2"
44 X 2.5	38.0	1 1/2"	CSC 1 1/2" L	CDW 08	CDF 08	2"
52 X 2.5	39.0	1 3/4" / 2"	CSC 2"	CDW 08	CDF 08	2"
61 X 2.5	42.0	1 3/4" / 2"	CSC 2"	CDW 09	CDF 09	2"

Single Compression Heavy Duty Brass Cable Glands

Code No.	Ref No.	Cable Dimensions		Gland Dimensions		
		Without Armour	With Armour	Entry Thread Inches	Across Flat	Across Corner
CSC 5/8"	1616	9.0	16.0	9.5	25.0	29.0
CSC3/4"	1619	10.0	16.0	9.5	25.0	29.0
CSC3/4" L	2119	14.0	20.0	9.5	31.5	35.0
CSC3 1"	2125	14.0	20.0	9.5	31.5	35.0
CSC 1" L	2925	20.0	26.0	10.0	40.0	46.0
CSC 1 1/4"	2932	14.0	29.0	10.0	40.0	46.0
CSC 1 1/2"	2938	24.0	29.0	10.0	40.0	46.0
CSC 1 1/2" L	3638	31.0	37.0	11.0	51.0	57.0
CSC 2"	4251	36.0	42.0	11.0	60.0	68.0
CSC 2" L	5451	44.0	50.0	12.0	68.0	78.0
CSC 2 1/2" L	6063	54.0	60.0	12.0	78.0	90.0
CSC 3"	6675	60.0	66.0	13.0	84.0	96.0
CSC 3 1/4"	7882	70.0	77.0	15.0	99.0	112.0

Double Compression Weatherproof Brass Cable Glands

Code No	Cable Dimensions		Gland Dimensions			
	Without Armour	With Armour	Size Inches	Entry Thread Length	Across Flat	Across Corner
CDW 001 SS	8.0	12.0	3/4"	15.0	21.0	23.5
CDW 01 S	12.5	16.5	3/4"	15.0	25.0	29.0
CDW 01	12.0	18.0	3/4"	15.0	28.0	32.0
CDW 01 A	12.0	18.0	1"	15.0	28.0	32.0
CDW 02	14.0	20.0	1"	15.0	31.5	36.5
CDW 02 A	14.0	20.0	3/4"	15.0	31.5	36.5
CDW 03	17.0	23.0	1"	15.0	32.0	37.0
CDW 04	20.0	26.0	1"	15.0	38.0	44.0
CDW 04 A	20.0	26.0	1 1/4"	15.0	38.0	44.0
CDW 05	24.0	30.0	1 1/4"	15.0	41.0	47.0
CDW 05 A	24.0	30.0	1 1/2"	15.0	41.0	47.0
CDW 06	27.0	33.0	1 1/2"	15.0	47.0	54.0
CDW 06 A	27.0	33.0	1 1/4"	15.0	47.0	54.0
CDW 07	30.0	37.0	1 1/2"	15.0	52.0	58.0
CDW 08	35.0	41.0	2"	15.0	56.0	64.0
CDW 09	40.0	46.0	2"	15.0	59.0	67.0
CDW 010	46.0	52.0	2"	20.0	67.5	77.0
CDW 010 A	46.0	52.0	2 1/2"	20.0	67.5	77.0
CDW 011	54.0	60.0	2 1/2"	20.0	80.0	92.0
CDW 012	60.0	67.0	3"	20.0	85.0	98.0
CDW 013 A	66.0	72.0	3"	20.0	90.0	99.0
CDW 013	72.0	78.0	3 1/4"	20.0	99.0	113.0
CDW 014	78.0	84.0	3 1/2"	20.0	108.0	122.0
CDW 015	88.0	94.0	4"	20.0	117.0	131.0
CDW 016	98.0	105.0	4 1/2"	20.0	130.0	145.0

Double Compression Flameproof Brass Cable Glands

Code No	Cable Dimensions		Gland Dimensions			
	Without Armour	With Armour	Size Inches	Entry Thread Length	Across Flat	Across Corner
CDF 01 S	10.0	16.5	3/4”	25.0	25.0	29.0
CDF 01	12.0	18.0	3/4”	25.0	28.0	32.0
CDF 01 A	12.0	18.0	1”	25.0	28.0	32.0
CDF 02	14.0	20.0	1”	25.0	31.5	36.5
CDF 02 A	14.0	20.0	3/4”	25.0	31.5	36.5
CDF 03	17.0	23.0	1”	25.0	32.0	37.0
CDF 04	20.0	26.0	1”	25.0	38.0	44.0
CDF 04 A	20.0	26.0	1 1/4”	25.0	38.0	44.0
CDF 05	24.0	30.0	1 1/4”	25.0	41.0	47.0
CDF 05 A	24.0	30.0	1 1/2”	25.0	41.0	47.0
CDF 06	27.0	33.0	1 1/2”	25.0	47.0	54.0
CDF 06 A	27.0	33.0	1 1/4”	25.0	47.0	54.0
CDF 07	30.0	37.0	1 1/2”	25.0	52.0	58.0
CDF 08	35.0	41.0	2”	25.0	56.0	64.0
CDF 09	40.0	46.0	2”	25.0	59.0	67.0
CDF 010	46.0	52.0	2”	25.0	67.5	77.0
CDF 010A	46.0	52.0	2 1/2”	25.0	67.5	77.0
CDF 011	54.0	60.0	2 1/2”	25.0	80.0	92.0
CDF 012	60.0	67.0	3”	25.0	85.0	98.0
CDF 013 A	66.0	72.0	3”	25.0	90.0	99.0
CDF 013	72.0	78.0	3 1/4”	25.0	99.0	113.0
CDF 014	78.0	84.0	3 1/2”	25.0	108.0	122.0
CDF 015	88.0	94.0	4”	25.0	117.0	131.0
CDF 016	98.0	105.0	4 1/2”	25.0	130.0	145.0

CALTER®
CABLES CONNECTORS TOOLS

Check-list for New Inquiry of special Cable Glands

Customer / Company.....

Adress.....

Contact person.....

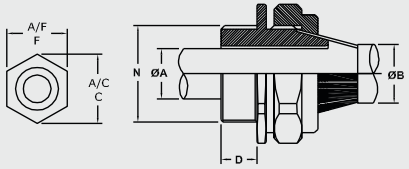
Customer No.....

Fax: .....

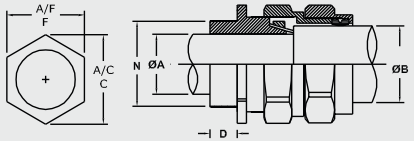
Phone.....

Drawings and Dimension: Please fill in all the required dimensions and necessary data (see nominal Dimension).

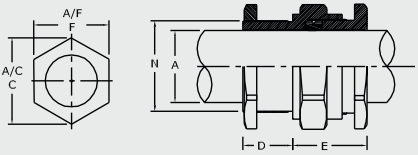
☐ BW Gland



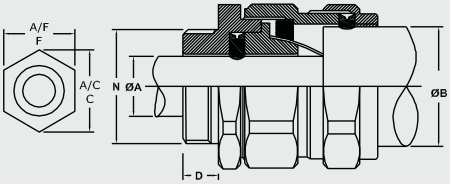
☐ CW Gland



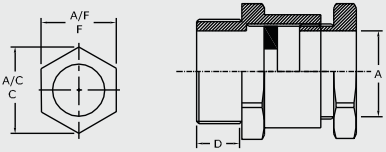
☐ A2 Gland



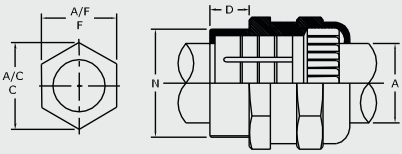
☐ E1W Gland



☐ PG Gland



☐ IP68 Gland



Number of buttmark: BS6121 PT1 ____ CALTER

Other type acc. to your sketches / Remarks:

Nominal dimensions (mm)

Dimension ØA.....

Dimension ØB.....

Dimension D.....

Dimension N.....

Dimension A/C (C).....

Dimension A/F (F).....

Technical Data

Type of Conductor (if known).....

Section (Cable):.....

Surface: ☐ Natural ☐ nickel plated

Others:.....

Material: ☐ Brass CZ 121

Others:.....

Commercial Data

Quantity / Annual requirement: .....

Requested delivery time.....

Sample: ☐ Yes ☐ No

Test repor of first sample: ☐ Yes ☐ No

Additional Information:

Date:.....

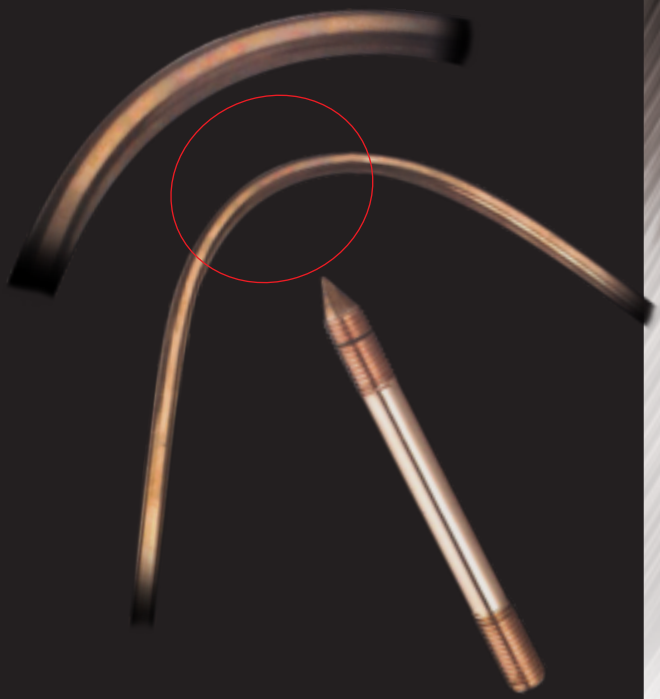
Signature (Customer):.....

Earthing Systems

Earthing Systems

Inspection Method

- Micron test for thickness
- No crack on bend test
- No stretch



Copper Bonded Grounding Rods

Dimension Rod Size Dia X Length	ActualT Rod Dia	Thread Dia	Cat. No.
9.5 X 1200 (Un-threaded)	9.5	--	CER-012
9.5 X 1800 (Un-threaded)	9.5	--	CER-018
14 X 1200	12	14	CER-1412
14 X 1500	12	14	CER-1415
14 X 1800	12	14	CER-1418
14 X 2000	12	14	CER-1420
14 X 2400	12	14	CER-1424
5/8"X 4' or 16mm X 1200	14.2	5/8"	CER-1612
5/8"X 5' or 16mm X 1500	14.2	5/8"	CER-1615
5/8"X 6' or 16mm X 1800	14.2	5/8"	CER-1618
5/8"X 8' or 16mm X 2400	14.2	5/8"	CER-1624
5/8"X 10' or 16mm X 3000	14.2	5/8"	CER-1630
5/8"X 4' or 16mm X 1200	16	5/8"	CER- 412
5/8"X 5' or 16mm X 1500	16	5/8"	CER- 515
5/8"X 6' or 16mm X 1800	16	5/8"	CER- 615
3/4"X 4' or 20mm X 1200	17.2	3/4"	CER-1712
3/4"X 5' or 20mm X 1500	17.2	3/4"	CER-1718
3/4"X 8' or 20mm X 2400	17.2	3/4"	CER-1724
3/4"X10' or 20mm X 3000	17.2	3/4"	CER-1730

Solid Copper Grounding Rod & Accessories

ROD DETAILS	Diameter	Length	Cat. No.
	15mm	1200mm	CSCR-1512
	16mm	1200mm	CSCR-1612
	20mm	1200mm	CSCR-2012
ITEM	Size		Cat. No.
Driving Head	15mm		CDH-015
	16mm		CDH-016
	20mm		CDH-020
Driving Tip	15mm		CDT-015
	16mm		CDT-016
	20mm		CDT-020
Internal	M10		CCD-015
Coupling	M10		CCD-016
Dowel	M10		CCD-020

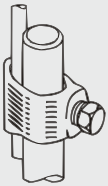
Coupler

Material : Naval brass

SIZE	CAT. NO.
14 mm.	CC 14
16 mm. or 5/8”	CC 16
20 mm. or 3/4”	CC 20

Rod to Cable Clamp G Type

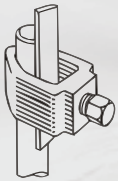
Material : Gunmetal or Naval brass



ROD DIA. (inch)	CONDUCTOR SIZE	CAT. NO.
3/8”	6 - 35 mm2	CCG 101
1/2”	16 - 50 mm2	CCG 102
5/8”	16 - 70 mm2	CCG 103
3/4”	35 - 95 mm2	CCG 104
1”	70 - 120 mm2	CCG 105

Rod to Cable Clamp A Type

Material : Gunmetal or Naval brass



ROD DIA. (inch)	MAX. CONDUCTOR SIZE	CAT. NO.
1/2”	26 X 12 mm.	CCA 011
5/8”	26 X 12 mm.	CCA 12
3/4”	26 X 10 mm.	CCA 013
1”	26 X 10 mm.	CCA 014

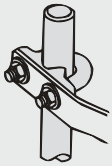
Earth To Cable Clamp

Material : Gunmetal or Naval brass

SIZE	CAT. NO.
14 mm.	CCC 14
16 mm	CCC 16
20 mm	CCC 20

U-Bolt Single Clamp

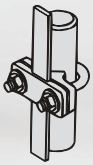
Material : Gunmetal or Brass



SIZE	CAT. NO.
16 mm.	CUSC - 016
25 mm.	CUSC - 025
31 mm.	CUSC - 031
38 mm	CUSC - 038
50 mm	CUSC - 050

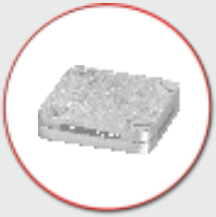
U-Bolt Rod to Cable Clamp Bulldog Clamp

Material : Gunmetal or Brass

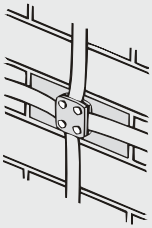


SIZE	CAT. NO.
16 mm.	CUBC - 016
25 mm.	CUBC - 025
31 mm.	CUBC - 031
38 mm	CUBC - 038
50 mm	CUBC - 050

Square Tape Clamp



Material : Gunmetal or Naval brass

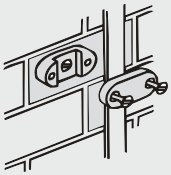


SIZE	CAT. NO.
25 x 3 mm	CSTC 253
25 x 6 mm	CSTC 256
38 x 6 mm	CSTC 386
50 x 6 mm	CSTC 506

DC Tape Clip

Conductor Size mm	Cat. No.	Conductor Size mm	Cat. No.
38 x 3	CDC-383	38 x 5	CDC-385
20 x 3	CDC-203	38 x 6	CDC-386
25 x 3	CDC-253	50 x 3	CDC-503
25 x 6	CDC-256	50 x 4	CDC-504
31 x 3	CDC-313	50 x 6	CDC-506
31 x 6	CDC-316		

Material : Gunmetal or Brass



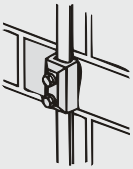
Air Rod DC Clip

Material : Gunmetal or Brass

CONDUCTOR SIZE	CAT. NO.
8	CADCG-08
10	CADCG-10

Oblong Test Clamp

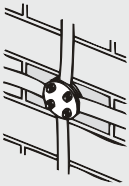
Material : Gunmetal



C to ONDUCTOR SIZE	CAT. NO.
25 x 3	COTG-253
38 x 6	COTG-386
50 x 6	COTG-506

Plate Type Test Clamp

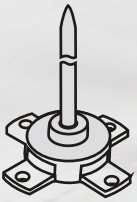
Material : Gunmetal or Brass



CONDUCTOR SIZE mm	CAT. NO.
26 x 12	CPCG-2612

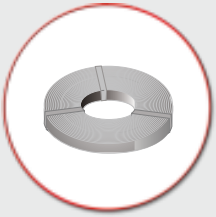
Light Duty Saddle / Air Terminal Base / Lightning Arrester

Material : Gunmetal or Brass



THREAD DIAMETER	Maximum Conductor Width	Material Gunmetal
mm	mm	Cat. No.
10	25	CGS-10
16	25	CGS-16
20	25	CGS-20

Flat Copper Tape

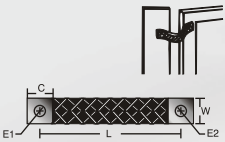


Material : E. C. Grade copper tape

CONDUCTOR SIZE	CAT. NO.
12mm	CFCT 012
20mm	CFCT 020
25mm	CFCT 025
38mm	CFCT 038
50mm	CFCT 050

Flexible Braid Bond

Material : E. Copper
Finish Copper / Electro tinned



Product Ref.	Conductor Size Mm²	Dimensions mm					
		L	E1	E2	C	W	AMP
CFB4-50	4	50	6	6	10	10	50
CFB4-100		100	6	6	10	10	50
CFB4-150		150	6	6	10	10	50
CFB4-200		200	6	6	10	10	50
CFB10-50	10	50	6	6	12	12	90
CFB10-100		100	6	6	12	12	90
CFB10-150		150	6	6	12	12	90
CFB10-200		200	6	6	12	12	90
CFB16-100	16	100	8.5	8.5	20	20	125
CFB16-150		150	8.5	8.5	20	20	125
CFB16-200		200	8.5	8.5	20	20	125
CFB16-250		250	8.5	8.5	20	20	125
CFB16-300		300	8.5	8.5	20	20	125
CFB25-100	25	100	10	10	25	25	160
CFB25-150		150	10	10	25	25	160
CFB25-200		200	10	10	25	25	160
CFB25-250		250	10	10	25	25	160
CFB25-300		300	10	10	25	25	160
CFB30-100	30	100	10	10	25	25	180
CFB30-150		150	10	10	25	25	180
CFB30-200		200	10	10	25	25	180
CFB30-250		250	10	10	25	25	180
CFB30-300		300	10	10	25	25	180
CFB35-100	35	100	10	10	25	25	210
CFB35-150		150	10	10	25	25	210
CFB35-200		200	10	10	25	25	210
CFB35-250		250	10	10	25	25	210
CFB35-300		300	10	10	25	25	210
CFB50-100	50	100	12	12	30	30	250
CFB50-150		150	12	12	30	30	250
CFB50-200		200	12	12	30	30	250
CFB50-250		250	12	12	30	30	250
CFB50-300		300	12	12	30	30	250

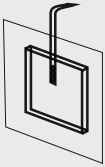
Taper Pointed Air Rod

Material : Solid E. C. Grade copper or bonded rod

ROD LENGTH	THREAD SIZE	Soild E. C. Grade Copper Rod Cat. No.	Bonded Rod Cat. No.
300	16	CSCA-163	CBRA-163
500	16	CSCA-165	CBRA-165
1000	16	CSCA-1610	CBRA-1610
1500	16	CSCA-1615	CBRA-1615
500	20	CSCA-205	CBRA-205
1000	20	CSCA-2010	CBRA-2010

Copper Bonded Earth Plate

Material : E. C. Grade copper plate



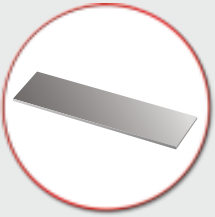
SIZE	CAT. NO.
500 x 500 x 1.5	CBEP 515
600 x 600 x 1.5	CBEP 615
500 x 500 x 3	CBEP 503
600 x 600 x 3	CBEP 603
900 x 900 x 3	CBEP 903
500 x 500 x 5	CBEP 505
600 x 600 x 5	CBEP 605

Flexible Copper Braid

Material : E. C. Grade copper wire

CONDUCTOR SIZE	CAT. NO.
25 x 3.5mm	CFCB-253

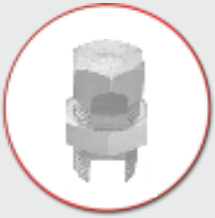
Copper Bar



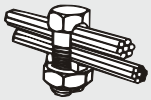
Material : E. C. Grade copper

Conductor Size	Thickness mm	Cat. No.
25mm	3, 6, 10	CCB - 025
38mm	3, 6, 10	CCB - 038
50mm	3, 6, 10	CCB - 050
70mm	3, 6, 10	CCB - 070

Brass Split Bolt Connectors/ Line Tapes



Material : E. C. Grade copper plate



Calter manufactures vast rang of LINE TAPS to meet international standards. BRASS LINE TAPS made with Tensile Brass and threads are formed by rolling process.

Conductor Size	Cat. No.
10	CSBC 10
16	CSBC 16
25	CSBC 25
32 - 25	CSBC 32
50	CSBC 50
70	CSBC 70
95	CSBC 95
100	CSBC 100
120	CSBC 120
150	CSBC 150
185	CSBC 185
240	CSBC 240
300	CSBC 300
400	CSBC 400
500	CSBC 500

Earth Blocks

Material : Naval brass
Surface Bright nickle

Type	CAT. NO.
4 way	CEB-04
8 way	CEB-08

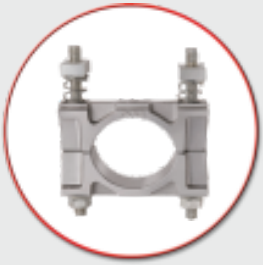
Earth Boss

Earth Boss are manufactured from High Tensile Mild Steel, zinc plated to avoid corrosion.
Supplied with SS/Phosphor bronze studs, bolts, spring and plain washer

Material : Mild steel

Length mm	Dia mm	Thread Dia	Cat Ref
30	38	3/8"	CEB-30
50	50	1/2"	CEB-50

Cable Cleat Clamp



Material : Al. Alloy LM6
BS: 1490
Stainless steel bolt with nut plain and spring washer
Liner: Rubber

Size	Cat. No.
H50-60	C50-60
H60-70	C60-70
H70-80	C70-80
H80-90	C80-90
H90-100	C90-100

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