Section A

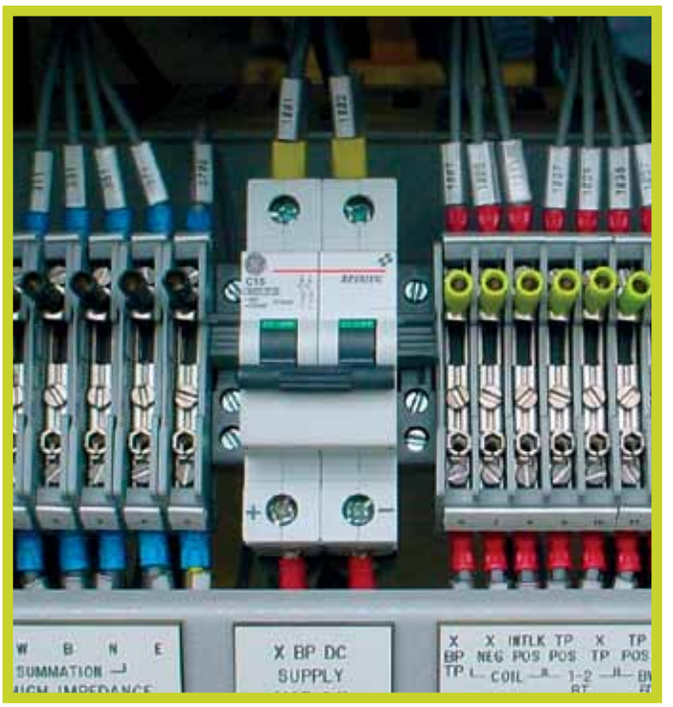
Terminals

Pre-Insulated Terminals

CABAC's range of pre-insulated terminals is comprehensive, and is being developed continually as switchgear, contactors, terminal blocks, etc. evolve. In more recent years terminals have been getting smaller, and we have developed our range of 0.5mm tab thickness quick connectors, increased our range of bootlace pins and introduced the 0.3mm² range of terminals to name a few developments. Our terminals are high quality 300V terminals having many advanced features for ease of use.

- High quality product meeting International Standards
- Long-term electrical integrity
- A unique funnel entry that speeds wire terminating and increases reliability
- Translucent nylon in fully insulated quick connectors reduces installation errors
- Full technical backup including QA
- Approved by government authorities
- Conforms to AS 3169 and AS 4437

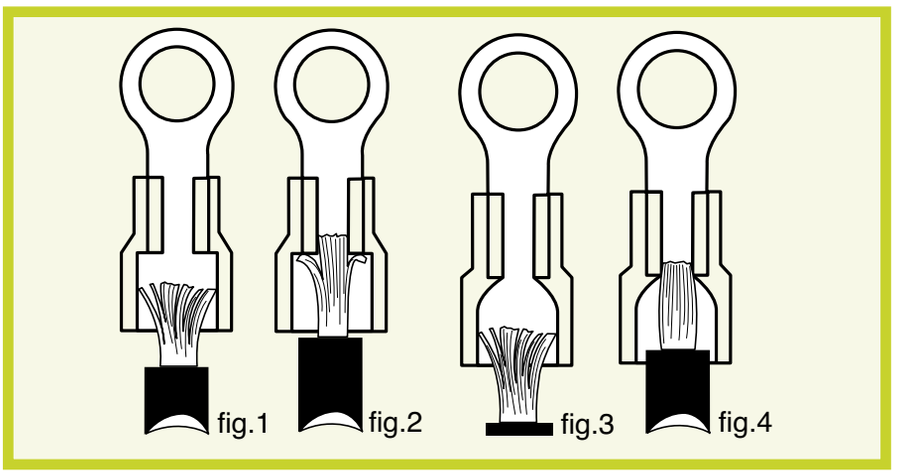
All terminals should be crimped onto the conductor using a CABAC crimper or any quality crimper that is designed to crimp the specific terminal type. If unsure of the terminal/conductor/crimper combination refer to the technical information following and test the nominal pull out force of the crimped connection. If the conductor does not pull out when the nominal pull out force is applied and held for one minute, this will give a good indication of the integrity of the joint. We offer a vast range of crimpers for various applications and terminal types that are shown in the tooling section at the back of this catalogue.



Funnel Entry

The funnel entry has been specifically developed to speed up wire terminating, while ensuring maximum reliability of the crimped connection. Only single grip terminals are funnel entry.

- Speeds insertion of the wire
- Avoids strands folding back and minimises short-circuit risks
- Reduces stripping tolerances
- Speeds and simplifies the operation, reducing errors and rejects
- Reduces installation time



Standard Entry

Fig. 1
Having stripped the insulation, the wire strands tend to 'spring', resulting in a difficult insertion.

Fig. 2
Not all strands are inserted into the terminal barrel, therefore the wire section is only partially crimped.

Funnel Entry

Fig. 3
All of the wire strands are properly funnelled into the terminal barrel.

Fig. 4
The wire section can be fully crimped and is both electrically and mechanically more reliable.

Pre-Insulated Terminals

Nominal Current Ratings

Terminal colour	Yellow	Red	Blue	Yellow
Conductor Range (mm^2)	0.2-0.5	0.5-1.6	1.0-2.6	2.5-6.0
Ring Terminal	8A	24A	32A	48A
Forked Spade	6A	18A	24A	36A
Pin Connector	5A	12A	16A	24A
Lip/Flat Blade	–	24A	32A	48A
Bullet	–	12A	16A	
In Line Splice	–	24A	32A	48A
Quick Connector	–	24A	32A	48A
End Connector	–	24A	32A	48A

NOTE: These ratings are a notional suggestion and cover most situations. It assumes defect-free workmanship, natural ambient conditions, and accepted practices within AS 3000.

Stripping Lengths

Terminal Colour	Yellow	Red	Blue	Yellow
Conductor Range (mm^2)	0.2-0.5	0.5-1.6	1.0-2.6	2.5-6.0
Strip Length for Terminals	4-5mm	4-5mm	5-6mm	6-7mm
Strip Length for in Line Splice	-	7-8mm	7-8mm	7-8mm

In general, the wire should protrude 1mm out of the front of the terminal.

Technical Data

Conductive Material (except Quick Connect Range)

Copper	99.9% pure
Tensile Strength	200 MPa
Ductile Rating	35%
Final Metal State	Fully annealed
Oxygen Content	50ppm max

Conductive Material (Quick Connect Range)

Brass	30% Zinc 70% Copper
Tensile Strength	580 MPa
Ductile Rating	6% min
Final Metal State	Annealed

Electroplating

Material	Tin
Tin Content	99.9%
Other Metals	Lead + Antimony
Plating Thickness	2.5 microns

General Electrical Properties

Total Conductivity	99.5% IACS
Total Resistivity	1.738 micro-ohm cm

Insulation

Material	PVC for all except nylon 6 or nylon 66 - for FIQC
Breakdown voltage	1.5kV (min)
Insulation resistance	Above 100 meg ohms
Working voltage	Up to 300V AC/DC

Working Temperature

Pre-Insulate	-40°C to +105°C
Brass	145°C
Tin plated	160°C

Conformant Standards

AS4437, AS3169 Australia
CSA Canada
IEC Europe
UL Nema USA
Demko Denmark
DIN VDE Germany
Kema Holland
JIS Japan; Nemko Norway
ASE Switzerland
BS United Kingdom

Torque Recommendations

For hardware being metric 8.8 tensile grade.

Thread dia (mm)	Torque (Nm)
3	2
4	3
5	5
6	9
8	22
10	44
12	77

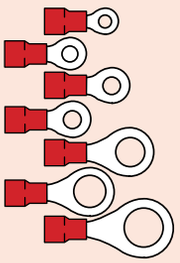
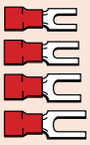
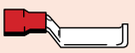
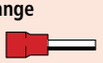
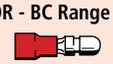
Nominal Pull Out Force

Wire size (mm^2)	Pull out force kg (N)
0.25	4.6 (45)
0.50	6.0 (59)
0.75	8.6 (84)
1.00	10.1 (100)
1.50	13.2 (130)
2.50	19.6 (192)
4.00	26.5 (260)
6.00	35.2 (345)

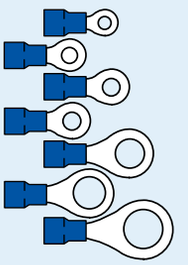
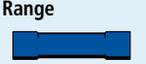
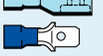
Pull out should be checked for each tool/terminal combination.

Pre-Insulated Terminals

Pre-Insulated

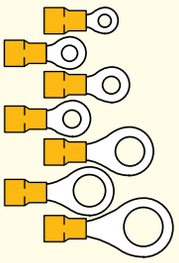
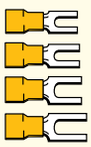
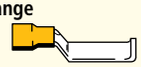
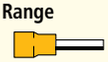
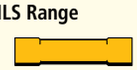
STUD SIZE	CONDUCTOR 0.5-1.6mm²	PACK QTY	SINGLE GRIP	DOUBLE GRIP
RING TERMINAL – RT Range				
M3		100	RT1.25-3	RT1.25-3DG
M4		100	RT1.25-4	RT1.25-4DG
M5		100	RT1.25-5	RT1.25-5DG
M6		50	RT1.25-6	RT1.25-6DG
M8		50	RT1.25-8	RT1.25-8DG
M10		25	RT1.25-10	RT1.25-10DG
M12		25		RT1.25-12DG
FORKED SPADE – FS Range				
M3		100	FS1.25-3	FS1.25-3DG
M4		100	FS1.25-4	FS1.25-4DG
M5		50	FS1.25-5	FS1.25-5DG
M6		50	FS1.25-6	FS1.25-6DG
PIN CONNECTOR - PC Range				
		100	PC1.25	PC1.25DG
LIP BLADE - LB Range				
Width 3mm		50	LB1.25-3	LB1.25-3DG
Width 5mm		50		LB1.25-5DG
FLAT BLADE - FB Range				
Dim. 1.9 x 11.7		100	FB1.25-2	FB1.25-2DG
Dim. 2.3 x 17		100	FB1.25-2.3/17	
Dim. 3 x 12		100	FB1.25-3	FB1.25-3DG
BULLET CONNECTOR - BC Range				
4mm Bullet		100		MBC1.25DG
		25		FBC1.25DG
IN LINE SPLICE - ILS Range				
		50	ILS1.25	ILS1.25DG
				See also page A11 and A12
QUICK CONNECTOR - QC Range				
Tab 6.4 x 0.8mm		100		PB1.25-6.4DG
Tab 2.8 x 0.5mm		100		QC1.25-2.8/.5DG
Tab 2.8 x 0.8mm		100		QC1.25-2.8DG
Tab 4.8 x 0.5mm		100		QC1.25-4.8/.5DG
Tab 4.8 x 0.8mm		100		QC1.25-4.8DG
Tab 6.4 x 0.8mm		100		QC1.25-6.4DG
Tab 4.8 x 0.5mm		50	FIQC1.25-4.8/.5	
Tab 6.4 x 0.8mm		50		FIQC1.25-6.4DG
Tab 6.4 x 0.8mm		100		MT1.25-6.4DG
Tab 6.4 x 0.8mm		50		FIMT1.25-6.4DG
Tab 6.4 x 0.8mm		25	FIFQC1.25-6.4	
Flag	Requires KFLAG Tool			
END CONNECTOR - EC Range		50	EC1.25	

Pre-Insulated

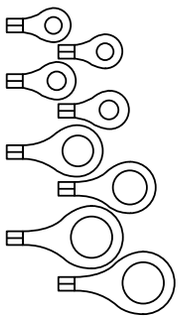
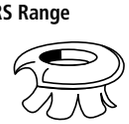
STUD SIZE	CONDUCTOR 1.0-2.6mm²	PACK QTY	SINGLE GRIP	DOUBLE GRIP
RING TERMINAL - RT Range				
M3		100	RT2-3	RT2-3DG
M4		100	RT2-4	RT2-4DG
M5		100	RT2-5	RT2-5DG
M6		50	RT2-6	RT2-6DG
M8		50	RT2-8	RT2-8DG
M10		25	RT2-10	RT2-10DG
M12		25	RT2-12	RT2-12DG
FORKED SPADE - FS Range				
M3		100	FS2-3	FS2-3DG
M4		100	FS2-4	FS2-4DG
M5		50	FS2-5	FS2-5DG
M6		50	FS2-6	FS2-6DG
PIN CONNECTOR - PC Range				
		100	PC2	PC2DG
LIP BLADE - LB Range				
Width 3mm		50	LB2-3	LB2-3DG
Width 5mm		50		LB2-5DG
FLAT BLADE - FB Range				
Dim. 2.5 x 11.7		100	FB2-2.5	FB2-2.5DG
Dim. 2.5 x 17		100	FB2-2.5/17	
Dim. 3.5 x 12		100	FB2-3.5	FB2-3.5DG
BULLET CONNECTOR - BC Range				
5mm Bullet		50		MBC2DG
		25		FBC2DG
IN LINE SPLICE - ILS Range				
		50	ILS2	ILS2DG
				See also page A11 and A12
QUICK CONNECTOR - QC Range				
Tab 6.4 x 0.8mm		50		PB2-6.4DG
Tab 2.8 x 0.8mm		100		QC2-2.8DG
Tab 4.8 x 0.5mm		100		QC2-4.8/.5DG
Tab 4.8 x 0.8mm		100		QC2-4.8DG
Tab 6.4 x 0.8mm		50		QC2-6.4DG
Tab 4.8 x 0.5mm		50	FIQC 2-4.8/.5	
Tab 6.4 x 0.8mm		50		FIQC2-6.4DG
Tab 6.4 x 0.8mm		100		MT2-6.4DG
Tab 6.4 x 0.8mm		50		FIMT2-6.4DG
Tab 6.4 x 0.8mm		25	FIFQC2-6.4	
Flag	Requires KFLAG Tool			
END CONNECTOR - EC Range		50	EC2	

Pre/Un-insulated & Brass Terminals

Pre-Insulated

STUD SIZE	CONDUCTOR 2.5-6.0mm²	PACK QTY	SINGLE GRIP	DOUBLE GRIP
RING TERMINAL - RT Range				
M3		50	RT5.5-3	RT5.5-3DG
M4		50	RT5.5-4	RT5.5-4DG
M5		50	RT5.5-5	RT5.5-5DG
M6		25	RT5.5-6	RT5.5-6DG
M8		25	RT5.5-8	RT5.5-8DG
M10		25	RT5.5-10	RT5.5-10DG
M12		25	RT5.5-12	RT5.5-12DG
FORKED SPADE - FS Range				
M3		50	FS5.5-3	FS5.5-3DG
M4		50	FS5.5-4	FS5.5-4DG
M5		50	FS5.5-5	FS5.5-5DG
M6		25	FS5.5-6	FS5.5-6DG
			Refer page A13 for Forked Spade 10mm²-16mm²	
PIN CONNECTOR - PC Range				
		50	PC5.5	PC5.5DG
			Refer page A13 for Pin Connector 10mm²-35mm²	
LIP BLADE - LB Range				
Width 5mm		50		LB5.5-5DG
FLAT BLADE - FB Range				
Dim. 2.9 x 16.6		50	FB5.5-3	FB5.5-3DG
Dim. 4 x 12		50	FB5.5-4	FB5.5-4DG
IN LINE SPLICE - ILS Range				
		25	ILS5.5	ILS5.5DG
				See also page A11 and A12
QUICK CONNECTOR - QC Range 0.8mm Tabs				
Tab 6.4mm		50		QC5.5-6.4DG
Tab 6.4mm		50		MT5.5-6.4DG
Tab 6.4mm		25		FIQC5.5-6.4DG
Tab 6.4mm		25		FIMT5.5-6.4DG
Tab 9.5mm		25		QC5.5-9.5DG
END CONNECTOR - EC Range		25	EC5.5	

Un-Insulated & Brass Range

STUD SIZE		PACK Qty	CONDUCTOR RANGE (mm²) 0.5-1.6	1.0-2.6	2.5-6.0
RING TERMINAL - UNINSULATED - RTU Range					
M3		100	RTU1.25-3	RTU2-3	
M4		100	RTU1.25-4	RTU2-4	RTU5.5-4
M5		100	RTU1.25-5	RTU2-5	RTU5.5-5
M6		100	RTU1.25-6	RTU2-6	RTU5.5-6
M8		100 / 50	RTU1.25-8	RTU2-8	RTU5.5-8
M10		50	RTU1.25-10	RTU2-10	RTU5.5-10
M12		50			RTU5.5-12
M16		50			RTU5.5-16
FORKED SPADE – UNINSULATED - FSU Range					
M3		100	FSU1.25-3	FSU2-3	
M4		100	FSU1.25-4	FSU2-4	FSU5.5-4
M5		100 / 50	FSU1.25-5	FSU2-5	FSU5.5-5
M6		50			FSU5.5-6
QUICK CONNECTOR BRASS - QCB Range					
Tab 6.4mm x 0.8		50		PBA6.4	
Tab 2.8mm x 0.5		100	QCB1.25-2.8		
Tab 4.8mm x 0.8		100	QCB1.25-4.8		
Tab 6.4mm x 0.8		100	QCB1.25-6.4		
Tab 6.4mm x 0.8		100		QCB2-6.4F	
Tab 6.4mm x 0.8		100	MTB1.25-6.4		
			Crimp Tool for Brass range HF1 (professional) HF2 (low cost)		
			Note: QCB2-6.4F Should be crimped with pliers and pull out checked		
QUICK CONNECTOR NICKEL SILVER - QCN Range					
Tab 6.4mm		100	QCN1.25-6.4		
RING STAR - RS Range					
Stud Size					
5mm		50		RS-5	
6mm		50		RS-6	

Please refer to Section i for CABAC's full range of tools. Below are some common tools for this range.

KTC1, KTC2, KTC3
Pre-Insulated Crimper, General Purpose

HP3
Pre-Insulated Crimper, Professional

HN2
Uninsulated Terminal Crimper

HF2
Brass Roll Crimper

Terminal Kit Packs

PRE-INSULATED AND BRASS

CABAC Kit packs are useful to a smaller user, who only wants a few terminals to complete a job. They are supplied in handy merchandiser re-sealable bag. The terminals in these kits are the same high quality 300V terminals, with all the features of the CABAC standard range, such as funnel entry.

Red Pre-Insulated Kit Packs
Conductor 0.5-1.6mm²

Catalogue No.	Kit Pack Quantity
Ring Terminals - Pre-Insulated	
RT1.25-3/K	25
RT1.25-4/K	25
RT1.25-5/K	25
RT1.25-6/K	25
RT1.25-8/K	20
RT1.25-10/K	20
Forked Spades - Pre-Insulated	
FS1.25-3/K	15
FS1.25-4/K	15
FS1.25-5/K	15
Pin Connectors - Pre-Insulated	
PC1.25/K	20
Bullet Connectors - Pre-Insulated	
MBC1.25DG/K	15
FBC1.25DG/K	15
In Line Splice - Pre-Insulated	
ILS1.25/K	20
Water Proof Splice - Pre-Insulated	
WPS1.25/K	6
Quick Connector Range - Pre-Insulated	
PB1.25-6.4DG/K	15
QC1.25-6.4DG/K	20
FIQC1.25-6.4/K	15
MT1.25-6.4DG/K	15
Quick Connectors - Brass	
QCB1.25-6.4/K	20
MTB1.25-6.4/K	20
PBA6.4/K	20
Quick Connectors - Nickel Silver	
QCN1.25-6.4/K	20
Ring Star Range - Brass	
RS-5/K	20
RS-6/K	20

Blue Pre-Insulated Kit Packs
Conductor 1.0-2.6mm²

Catalogue No.	Kit Pack Quantity
Ring Terminals - Pre-Insulated	
RT2-3/K	20
RT2-4/K	20
RT2-5/K	20
RT2-6/K	20
RT2-8/K	15
Forked Spades - Pre-Insulated	
FS2-3/K	15
FS2-4/K	15
FS2-5/K	15
Pin Connectors - Pre-Insulated	
PC2/K	20
Bullet Connectors - Pre-Insulated	
MBC2DG/K	15
FBC2DG/K	15
In Line Splice - Pre-Insulated	
ILS2/K	20
Water Proof Splice - Pre-Insulated	
WPS2/K	6
Quick Connector Range - Pre-Insulated	
PB2-6.4DG/K	15
QC2-6.4DG/K	20
FIQC2-6.4/K	15
MT2-6.4DG/K	15
Quick Connectors - Brass	
QCB2-6.4F/K	20

Yellow Pre-Insulated Kit Packs
Conductor 2.5-6.0mm²

Catalogue No.	Kit Pack Quantity
Ring Terminals - Pre-Insulated	
RT5.5-5/K	20
RT5.5-6/K	20
RT5.5-8/K	15
Forked Spades - Pre-Insulated	
FS5.5-4/K	10
FS5.5-5/K	10
Pin Connectors - Pre-Insulated	
PC5.5/K	15
In Line Splice - Pre-Insulated	
ILS5.5/K	10
Water Proof Splice - Pre-Insulated	
WPS5.5/K	4
Quick Connector Range - Pre-Insulated	
QC5.5-6.4DG/K	10
FIQC5.5-6.4/K	10
MT5.5-6.4DG/K	10

Terminal Kits

Terminal and Tool Kits - Plastic Boxes

Terminal kits packed in KPB1 sturdy plastic box with 20 pieces of the below terminals, and two tool options, one economy range, and one with a quality ratchet crimp tool. Please refer to the tooling section in Section i for details of the crimp tool.

- FIQC1.25-6.4DG
- FIQC2-6.4DG
- FS1.25-4
- FS2-4
- ILS1.25
- ILS2
- PC1.25
- QCN1.25-6.4
- RT1.25-5
- RT2-5

KPBK3 Economy Kit with K10/2 tool

KPBK6 Professional Kit with KTC1 ratchet crimp tool

KPBK6

Bootlace Terminal and Tool Kits - Plastic Boxes

These kits contain the most common bootlace pins with two tool options, packed in a KPB1 sturdy plastic box. Please refer to the tooling section in Section i for details of the crimp tool.
The kit contains 100 of:

- BLP050
- BLP075
- BLP100
- BLP150
- BLP250
- BLP400
- BLPT075
- BLPT100
- BLPT150
- BLPT250

BLPKIT1 Kit with HNKE6 plier style crimper

BLPKIT2 Kit with HNKE5 ratchet crimper

BLPKIT2

Lug Terminator Kit - Large

This kit has large quantities of copper lugs and links from 2.5 to 16mm² and a K26 tool for crimping, all packed in a sturdy KPB1 plastic box.

Kit contains:

• CAL2.5-5	100	• CAL10-6	50	• CAS6	50
• CAL2.5-6	100	• CAL16-6	25	• CAS16	25
• CAL4-6	50	• CAL16-8	25	• K26 Tool	1
• CAL6-6	50	• CAS2.5	100		

KPBK1

KPBK1

Lug Terminator Kit - Small

This kit has handyman quantities of copper lugs and links from 2.5 to 16mm² and a K26 tool for crimping all packed in a sturdy KPB1 plastic box.

Kit contains:

Product	**Qty**				
• CAL2.5-5	25	• CAL10-6	25	• CAS6	15
• CAL2.5-6	25	• CAL16-6	15	• CAS16	15
• CAL4-6	25	• CAL16-8	15	• K26 Tool	1
• CAL6-6	25	• CAS2.5	25		

KPBK2

KPBK2

Terminal and Tool Kits - Metal Box

CABAC offers a range of kits based around our KSB-BL Metal Box.

KTB - Basic Kit with no tool, having a range of terminals packed in a KSB-BL metal box.
Contains 25 pieces of the following terminals:

- PC1.25
- PC2
- RT1.25-4
- RT1.25-5
- RT2-5
- RT2-6
- RT5.5-5
- MBC1.25DG
- MBC2DG
- ILS1.25
- ILS2
- FIQC1.25-6.4DG
- FIQC2-6.4DG
- FS1.25-4
- FS2-4
- FBC1.25DG
- FBC2DG
- QC1.25-6.4DG
- QC2-6.4DG
- PBA6.4

Kit Options:

KTB-T1
Terminators Kit (KTB) with K10/3 tool.

KTB-T2
Terminators Kit (KTB) with HP3 quality ratchet tool.

KTB-T3
Terminators Kit (KTB) with KTC1 budget ratchet tool.

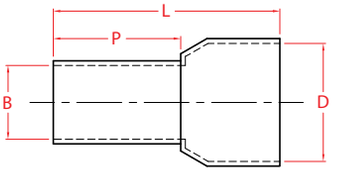
KTB

Bootlace Pins - Ferrules

CABAC Bootlace Pins are used to terminate conductors, by containing the strands in a thin walled copper sleeve that is crimped onto the conductor. The sleeve ensures that no conductor strands stray, and also stops screws in the terminal from breaking strands. With the use of larger diameter flexible cables, the range is continually growing, so please contact our sales department if an item you need is not shown.

There are three basic types of BLP:
- Insulated single conductor style
- Twin conductor style
- Uninsulated cord end sleeves

The sleeves should be slipped over the stripped conductor, and crimped with one of our HNKE range of crimp tools. Crimp is only to hold sleeve on conductor until screw of terminal housing makes connection.



Catalogue No.	Nominal Conductor (mm^2)	Dimensions (mm) L	P	B	D	Colour	Pack	Tooling
BLP025	0.25	10	6	0.75	1.9	Violet	100	HNKE3
BLP034	0.34	10	6	0.8	1.9	Pink	100	HNKE3
BLP050	0.5	14	8	1.3	3.4	White	100	HNKE3, HNKE6
BLP050/500							500	HNKE3, HNKE6
BLP075	0.75	14	8	1.5	3.8	Blue	100	HNKE3, HNKE6
BLP075/500							500	HNKE3, HNKE6
BLP100	1.0	14	8	1.7	4.1	Red	100	HNKE3, HNKE6
BLP100/500							500	HNKE3, HNKE6
BLP150	1.5	14	8	2.0	4.6	Black	100	HNKE3, HNKE6
BLP150/500							500	HNKE3, HNKE6
BLP150-18	1.5	24	18	2.0	4.6	Black	100	HNKE12
BLP250	2.5	14	8	2.6	4.9	Grey	100	HNKE3, HNKE6
BLP250-18	2.5	24	18	2.6	4.9	Grey	100	HNKE12
BLP400	4	18	10	3.2	5.8	Orange	100	HNKE5, HNKE9, 10 & 11
BLP400-18	4	26	18	3.2	4.8	Orange	100	HNKE5, HNKE9, 10 & 11
BLP600	6	20	12	3.9	6.9	Green	50	HNKE5, HNKE9, 10 & 11
BLP600-18	6	26	18	3.9	6.9	Green	50	HNKE5, HNKE9, 10 & 11
BLP1000	10	22	12	4.9	8.4	Brown	25	HNKE5, HNKE9, 10 & 11
BLP1000-18	10	28	18	4.9	8.4	Brown	25	HNKE5, HNKE9, 10 & 11
BLP1600	16	24	12	6.2	9.6	Ivory	25	HNKE5, HNKE9, 10 & 11
BLP1600-18	16	28	18	6.2	9.6	Ivory	25	HNKE5, HNKE9, 10 & 11
BLP2500	25	28	16	7.7	12.0	Black	10	HNKE5, HNKE9, 10 & 11
BLP3500	35	30	16	8.7	13.5	Red	10	HNKE7
BLP5000	50	36	16	10.9	16.0	Blue	10	HNKE7
BLP7000	70	37	21	14.3	17.2	Yellow	5	HNKE7
BLP9500	95	44	25	15.5	19.2	Red	3	HNKE8
BLP12000	120	48	27	17.6	21.4	Blue	3	HNKE8

"Shaker Box" for Bootlace Pins

CABAC has two handy assortment boxes for bootlace pin connectors.
These have a range of the most popular sizes, for day to day use.

BLPK1
Bootlace pin assortment 0.5-2.5mm^2.

Contents	Qty
BLP050	100
BLP075	100
BLP100	100
BLP150	100
BLP250	50

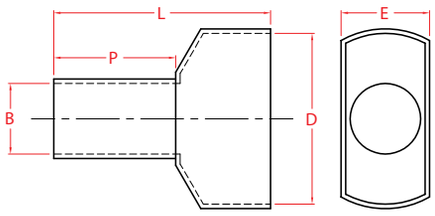
BLPK2
Bootlace pin assortment 4-16mm^2.

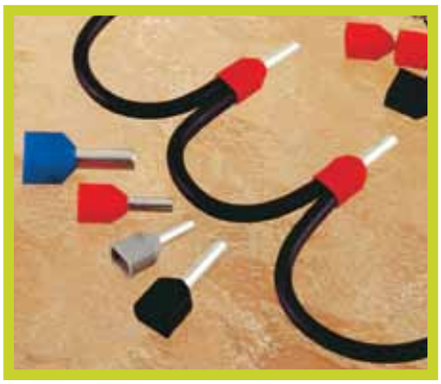
Contents	Qty
BLP400	50
BLP600	20
BLP1000	20
BLP1600	10

Twin & Uninsulated Bootlace Pins

Twin Wire BLPT Bootlace Pins

The twin wire BLPT range is specifically designed to terminate two wires in the same terminal. With the development of smaller switches and devices become smaller. The twin wire BLPT solves these problems in a quick and easy way.



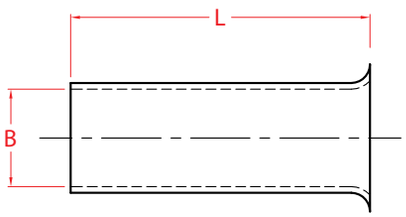


Catalogue No.	Nominal Conductor (mm^2)	Dimensions (mm) L	P	B	D	E	Colour	Pack	Tooling
BLPT075	2 x 0.75	15.0	8.0	1.8	5.0	2.8	Grey	100	HNKE3, HNKE5, HNKE6, HNKE9
BLPT100	2 x 1.0	15.0	8.0	2.05	5.4	3.4	Red	100	
BLPT150	2 x 1.5	16.0	8.0	2.3	6.6	3.6	Black	100	
BLPT250	2 x 2.5	18.5	10.0	2.8	7.8	4.2	Blue	100	
BLPT400	2 x 4.0	23.0	12.0	3.7	8.8	4.9	Grey	50	
BLPT600	2 x 6.0	26.0	14.0	4.8	10.0	6.9	Yellow	25	

Uninsulated Bootlace Pins - Cord End Connectors

CABAC un-insulated bootlace pins are used to terminate conductors, by containing the strands in a thin walled copper sleeve. Crimping of the sleeves is optional, since the screw in the terminal will "crimp" the connection.

Catalogue No.	Nominal Conductor (mm^2)	Dimensions (mm) L	B	Std Pack	Tooling
BLPU050	0.50	8	1.0	100	HNKE3, HNKE6, HNKE5, HNKE9, 10 & 11
BLPU075	0.75	8	1.2	100	
BLPU100	1.0	10	1.4	100	
BLPU150	1.5	10	1.7	100	
BLPU250	2.5	10	2.2	100	
BLPU400	4	12	2.8	100	
BLPU600	6	12	3.5	100	
BLPU1000	10	12	4.5	25	
BLPU1600	16	12	5.8	25	
BLPU2500	25	18	7.3	10	HNKE7, HNKE8
BLPU3500	35	18	8.3	10	
BLPU5000	50	20	10.3	10	
BLPU7000	70	25	13.5	5	
BLPU9500	95	32	14.7	3	
BLPU12000	120	32	16.7	3	



Special Terminals

0.3mm² Pre-Insulated Terminal Range

Cable terminations are getting smaller as time progresses. CABAC 0.3mm² range accommodate fine conductors in the 0.2 to 0.5mm² range. They should be crimped with the KTC05 tool.

Catalogue No.	Stud Size (mm)	Std Pack
Ring Terminals		
RT0.3-3DG	3	
RT0.3-4DG	4	100
RT0.3-5DG	5	
Forked Spades		
FS0.3-3DG	3	
FS0.3-4DG	4	100
FS0.3-5DG	5	
Pin Connector		
PC0.3DG		100

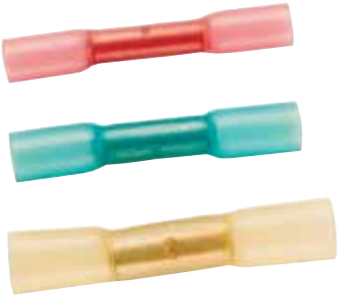
Forked Spade Flange Style - FSF Range

These terminals are designed to provide a positive location and restraint to the terminal palm, especially for captive screw and vibration applications. They should be crimped using the normal CABAC tool range.

Catalogue No.	Nominal Conductor (mm²)	Stud Size (mm)	Std Pack
FSF1.25-3DG		3	
FSF1.25-4DG	0.5 to 1.6	4	100
FSF1.25-5DG		5	
FSF2-3DG		3	
FSF2-4DG	1.0 to 2.6	4	100
FSF2-5DG		5	

Water Proof Splice - WPS Range

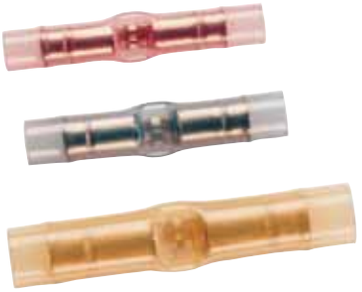
CABAC Water Proof Splices have a glue lined heatshrink insulation, which is shrunk onto the wire after crimping. This gives a completely waterproof connection. They are crimped using standard CABAC tooling.



Catalogue No.	Nominal Conductor (mm²)	Insulation Colour	Std Pack
WPS1.25	0.5 to 1.6	Red	
WPS2	1.0 to 2.6	Blue	25
WPS5.5	2.5 to 6.0	Yellow	

Window Splices - ILSWS Range

CABAC Window Splices have a "window" in the centre of the splice, that can be seen through translucent insulation, through which you can see if the conductors have bottomed, and as such a correct crimp achieved. They are used in high integrity installations, where conductor connectivity is critical. They are crimped with standard CABAC tooling.



Catalogue No.	Nominal Conductor (mm²)	Insulation Colour	Std Pack
ILS1.25WS	0.5 to 1.6	Red	50
ILS2WS	1.0 to 2.6	Blue	50
ILS5.5WS	2.5 to 6.0	Yellow	25

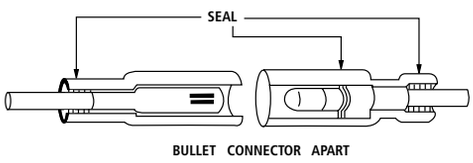
Special Terminals

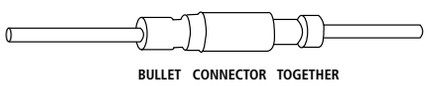
IP57 Bullets & Splices

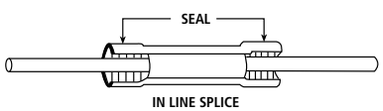
These IP57 Bullets and Splices are designed for hostile environments, and can be immersed in water, without water getting into the joint. The bullets allow equipment to be disconnected and re-connected maintaining an IP57 integrity.

- Have an in-built sealing ring, which seals the terminal to wire insulation interface, stopping water ingress
- The bullets have in-built sealing ridges, which stops water penetration, and a positive seal at the base of the male bullet
- The bullets are ideal for connections of swap out equipment, and equipment that has to be temporarily connected
- Temperature range -40°C to 105°C
- Rated voltage 300V
- Flame retardant nylon insulation to UL94V-2
- IP57 to IEC529

For correct sealing, ensure the insulation of the wire is the correct diameter (see table below) and simply insert the wire and crimp with a quality CABAC pre-insulate crimper such as the HP3.







Catalogue No.	Description	Conductor Range (mm²)	Outside Wire Diameter (mm)	Std Pack
Bullet Connectors				
MBC1.25/IP57	Red Male Bullet	0.75-1.25	2.6-3.2	25
FBC1.25/IP57	Red Female Bullet			
MBC2/IP57	Blue Male Bullet	1-0-2-6	3.0-3.6	25
FBC2/IP57	Blue Female Bullet			
In Line Splices				
ILS1.25/IP57	Red In Line Splice	0.75-1.25	2.6-3.2	50
ILS2/IP57	Blue In Line Splice	1.0-2.6	3.0-3.6	

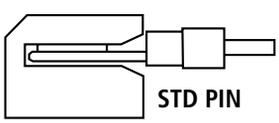
Terminal Block Pins

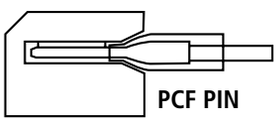
These pins have a long skinny pin, and most importantly the insulation tapers toward the pin.

- Because the insulation tapers the front of the pin and the insulation are in the terminal block cavity. This minimises chances of short outs, and things inadvertently touching
- The long pin is designed to go into most commercially available terminal blocks
- The insulation is translucent so the crimp can be inspected through the insulation

One of the largest uses for this product is the lighting industry and spring type terminal blocks. These terminals should be crimped with normal CABAC tooling.

Catalogue No.	Description	Conductor Range (mm²)	Pin Length (mm)	Std Pack
PCF1.25	Red Pin	0.3-1.56	11	100



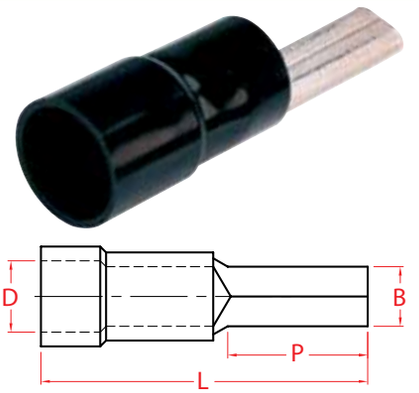


Large Conductor Pins, Forks & Rings

Pin Connectors Insulated 10mm² to 35mm²

Pin Connectors for larger conductors than conventional yellow range of terminals. Insulation is black nylon and funnel entry is provided for ease of wire insertion. Terminals accommodate fine-stranded wire.

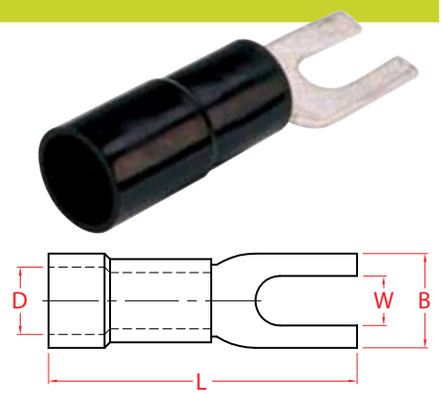
Catalogue No.	Nominal Conductor (mm²)	Dimensions (mm) L	B	P	D	Crimp Tool	Pack Qty
PC10	10	35	4.2	14.5	8.0	K25 / HNN4	10
PC16	16	41	5.5	18.0	9.2		10
PC25	25	45	6.8	20.3	11.1	K28	10
PC35	35	55	8.0	24.5	13.6		5



Forked Spade Insulated 10mm² and 16mm²

Forked Spades for larger conductors than conventional yellow range of terminals. Insulation is black nylon and funnel entry is provided for ease of wire insertion. Terminals accommodate fine-stranded wire. These forked spades are narrow so that they can be used on modern compact switchgear.

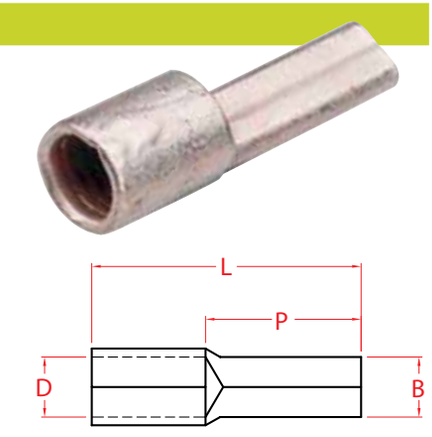
Catalogue No.	Nominal Conductor (mm²)	Stud Size	Dimensions (mm) L	B	P	D	Crimp Tool	Pack Qty
FS10-4	10	4	26	9.8	4.2	8.2	HNN4 / K25	10
FS10-5	10	5	26	11.5	5.2	8.2		10
FS16-4	16	4	31	9.8	4.2	9.0		10
FS16-5	16	5	31	11.5	5.2	9.0		10



Pin Connectors Uninsulated 10mm² to 50mm²

CABAC's Un-Insulated PCU range are larger size pins than the normal terminal style. They are useful to connect narrow tunnels in switchgear.

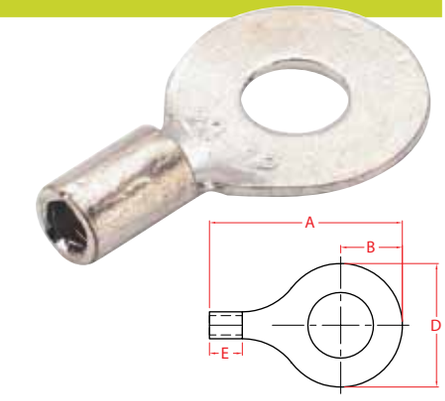
Catalogue No.	Nominal Conductor (mm²)	Dimensions (mm) L	B	P	D	Crimp Tool	Pack Qty
PCU10	10	23.5	4.3	14.5	4.8	K25 / K26	50
PCU16	16	28.0	5.5	18.0	5.9	K25 / K26	50
PCU25	25	32.0	7.0	20.3	7.0	K28 / K9	50
PCU35	35	39.0	8.0	24.5	8.9	K9	50
PCU50	50	45.0	9.5	26.0	10.0	K9	1



Large Diameter Rings on a Small Conductor

These ring terminals are designed to attach a small wire to a large diameter bolt, such as earth connections etc.

Catalogue No.	Nominal Conductor (mm²)	Stud (mm)	Crimp Tool	Pack Qty
RTU10-12	10	12	K26, K27, K28	100
RTU10-16	10	16		100
RTU16-16	16	16		50
RTU20-12	20	12	K28, K9	50



Telecom Splices & Solder Splices

Telecom Splice Connectors

CABAC Telecom Splice Connectors are specifically designed to quickly connect two or three telecom conductors. Simply insert the un-stripped wires, and crimp the cap of the connector using a CABAC TELSP2 tool, and the wires are connected forever.

- Connectors are grease filled to ensure a moisture proof connection
- Bodies are made from polycarbonate plastic that resists splitting, rough handling and solvents
- The connection method is an IDC (Insulation Displacement Connection), which is proven to be stable in the long term. Two IDC elements are used in each connection for greater joint integrity

Ensure any crimp tool used has a parallel action, like the CABAC TELSP2 tool. Many low cost tools have a plier action, which is not recommended for crimping these connectors.

373MUY2-C

373MUR2-C

Catalogue No.	No. of Conductors	Conductor Range Dia. (mm)	Max Insulation (mm)	Cap Colour	Std Pack
373MUY2-C	2	0.4-0.9	2.1	Yellow	100
373MUR2-C	3	0.4-0.9	2.1	Red	100

Technical Data
Body material: Polycarbonate
Operating temperature: -40 to 140°C

Solder Splices

CABAC Solder Splices are an adhesive lined heatshrink tube containing a sleeve of low melt point fluxed solder. The conductors are inserted into the sleeve, and the strands intermingled. Using a hot heatgun, the sleeves are shrunk onto the conductor, at the same time melting the solder, which connects the wires. The advantages of solder splices are:

- A completely sealed soldered joint is created in one go
- The heatshrink has an internal glue liner, which melts and seals the joint
- A joint with good strain relief, and high vibration resistance is created
- A fast, time effective way of joining two conductors
- Ideal for connections in hostile or moist environments

To install solder sleeves, strip the conductors 9mm. Slide a sleeve over one of the wires. Push the conductors together and intermingle the wires. Slide the solder sleeve to the centre of the joint. Apply heat from the centre to the end of the sleeve, and focus heat on the solder until it flows. Shrink the ends of the heatshrink, ensuring the glue liner is melted and flows. Avoid overheating, and set temperature to approx 250°C. Do not use an open flame.

Catalogue No.	Conductor Range (mm^2)	Colour	Pack Qty
SSCL-X	0.1 - 0.5	Clear	10
SSRD-X	0.5 - 1.0	Red	10
SSBL-X	1.0 - 2.0	Blue	10
SSYL-X	2.0 - 6.0	Yellow	10

Technical Data

Melting Temperature:	126 to 145°C
Temperature Rating:	-55 to +95°C
Dielectric Strength:	15 kV/mm^2
Insulation Resistance:	10^{14} Meg Ohms
Mil Spec of Tubing:	MIL-I-23053/4, Class 1 AMS-3634
Mil Spec of Solder:	QQ5571E, MIL-S-14256

Insulated Screw Connectors

CABAC heavy duty Insulated Screw Connectors accommodate a maximum of 2 x 6mm² cables, and are made in one and two screw formats, the two screw being for the earth.

- They have a clear plastic housing so that the termination can be visually checked
- Soft plastic housing with no sharp edges for user comfort
- Nominal 32A rating, dependant on conductor loading
- Rated for normal 240/415V applications
- Connectors are supplied in handy screw top jars

They are typically used by electricians, in junction boxes for general connections, to connect light fittings, and virtually anywhere in general purpose wiring. Supplied in handy screw top jars.

Catalogue No.	Description Conductor	Jar Qty	Jar Weight (g)
C32A1	Single Screw Connector 32A	100	330
C32A2	Double Screw Connector 32A	50	330

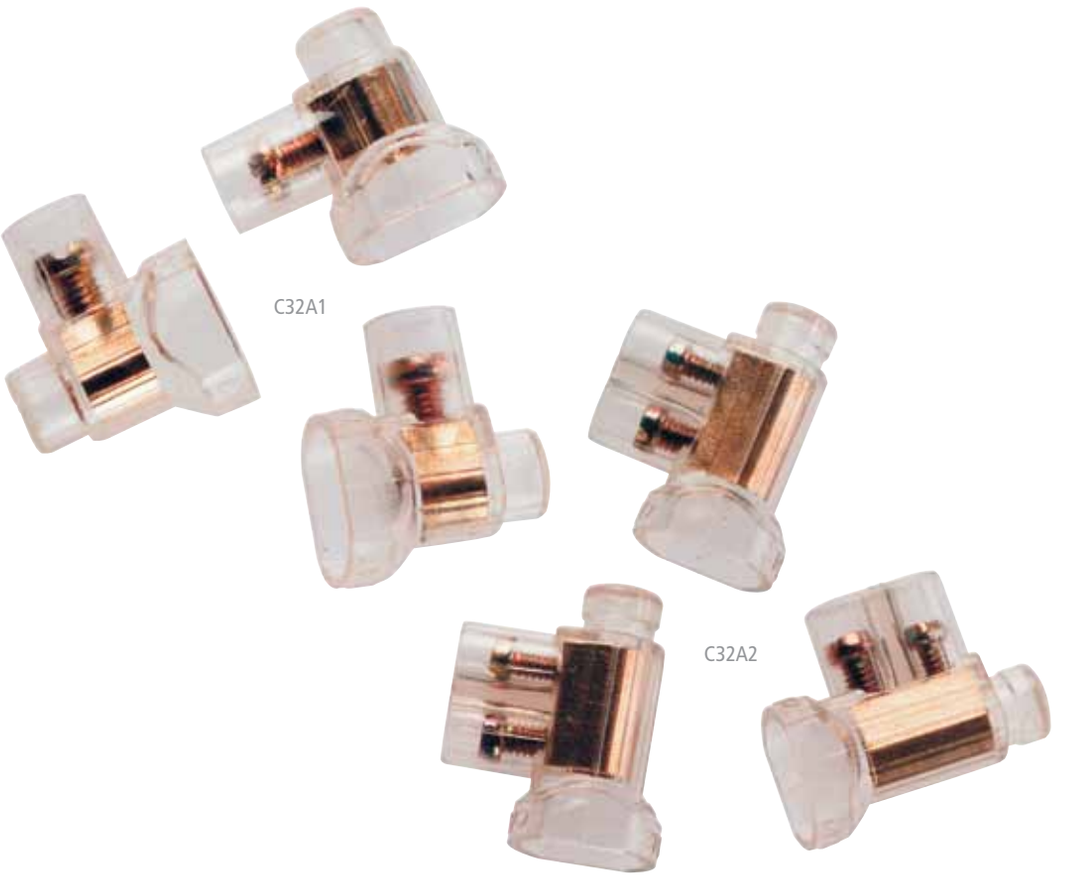
Technical Data

Material

Body: PVC
Connections: Brass

Nominal Ratings

Voltage: 240/415V
Amperage: 32A



Terminal Block Connector Strip

WIRE PROTECT STYLE

CABAC Terminal Block Connector Strips are high quality wire protect style blocks. This means a small metal "pressure" plate is located below each screw, which clamps on to the wire strands, protecting them from the screw which will damage strands during screwing down the connector.

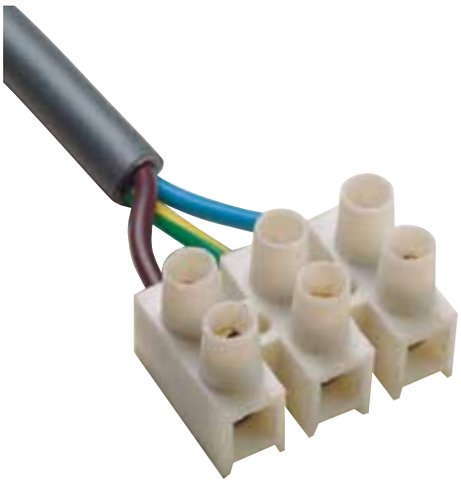
Features include:

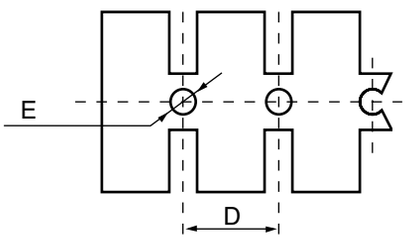
- Wire protect style to protect strands
- Manufactured from Polyamide 66
- Working temperature of 105°C
- Nickel plated brass terminals
- Plated steel screws

They are supplied in 12 way strips that can be cut down to your requirements.

These blocks are available from CABAC in two ways:

1. Single pack blister merchandisers which are ideal for hang cell merchandising
2. Blocks of 10 terminal strips (10 by 12 way strips) wrapped in cellophane, for the industrial user





Catalogue No.	Nominal Amp Rating	Max Cond mm²*	A	B	C	D	E	F	Pack Qty
TB3/12WAY	3	2.5	94	16.5	15.0	8.0	2.0	2.8	1
TB6/12WAY	6	2.5	118	19.5	16.0	10.0	3.0	3.2	1
TB10/12WAY TB10/12WAY-50	10	4	130	20.5	17.0	11.0	3.2	3.6	1 50
TB15/12WAY	15	6	138	23.6	18.5	11.5	3.2	4.4	1
TB30/12WAY	30	10	174	27.0	22.5	15.0	4.0	5.2	1

*Note maximum conductor size will depend on stranding.

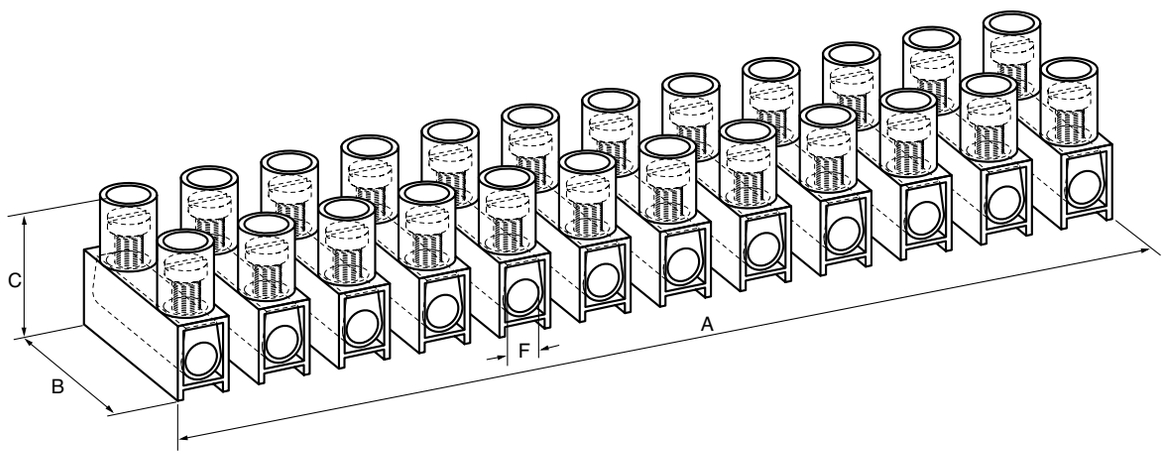
Technical Data

Material

Housing:	Polyamide 66
Conductive:	Brass Nickel Plated
Screws:	Steel Chrome Plated

Nominal ratings

Voltage :	415V
Max Operating Temp:	105°C
Flammability:	Flame Retarded



Pre-Insulated Terminals - Recommended Tooling

All terminals should be crimped onto the conductor using a CABAC quality crimper or a crimper that is designed to crimp the specific terminal type. If unsure of the terminal/conductor/crimper combination refer to the technical information on page A2 & A3. CABAC has a large comprehensive range of application tooling refer to section (I) Tooling for a full range.

Pre-insulated Terminal Crimper, Red, Blue and Yellow

Low cost ratchet terminal crimper for red, blue and yellow pre-insulated terminals. Ratchet operation ensures correct crimp and reduced hand effort. When crimping flexible conductors in yellow terminals the maximum capacity of the tool is 6mm^2.

- Length: 230mm
- Weight: 540g

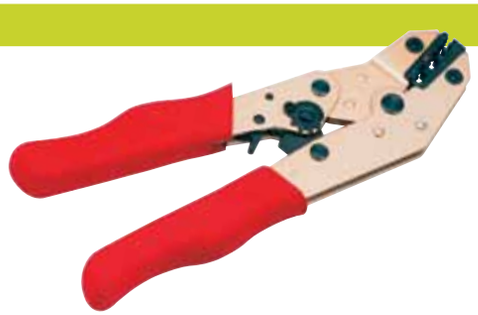
KTC1

Pre-insulated Terminal Crimper - Light Weight

This tool is very useful for general electrical installation, in that it combines red and blue pre-insulated terminal jaws, with bootlace terminal jaws 0.25mm^2 - 2.5mm^2 (BLP025 to BLP250). It is also light weight made from a titanium alloy, with ultra soft cushioned handles. Ratchet operation ensures a correct crimp.

- Length: 210mm
- Weight: 200g

KTC2



Professional Crimping Tool - Super High Leverage Ergonomic Handles

- High precision ratchet style crimping tool for red, blue and yellow pre-insulated terminals
- Super high leverage ergonomic handles
- Jaws are hardened and polished to achieve optimum crimp
- Ratchet operation ensures correct crimp and reduced hand effort
- High quality tool will ensure years of precision crimping
- Ratchet release clip
- The tool features an adjustment dial to further enhance the quality of the tool

Crimping guide

Red	0.5 - 1.65mm	22 - 16 AWG
Blue	1.0 - 2.6mm	16 - 14 AWG
Yellow	2.6 - 6.6mm	12 - 10 AWG

KTC3

Pre-insulated Terminal Crimper, Red, Blue and Yellow - Precision

High precision ratchet terminal crimper for red, blue and yellow pre-insulated terminals. Jaws are hardened and polished to achieve optimum crimp. Ratchet operation ensures correct crimp and reduced hand effort. This tool is ultra high quality and should give years of precision crimping. Guaranteed for a million crimps.

- Length: 235mm
- Weight: 480g

HP3

Pre-insulated Terminal Crimper, with Guard - Precision

This is the same as the HP3, but has a guard to locate terminals correctly in the tool prior to crimping.

HP3/1