

Bootlace Ferrules

CABRICAL's Bootlace Ferrules are used to terminate conductors, by containing the strands in a thin walled copper sleeve that is crimped onto the conductor. The sleeve 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.

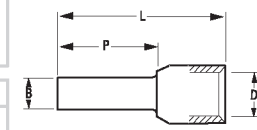
There are three basic types of BLF:

- 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.



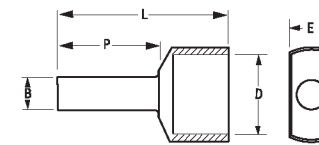
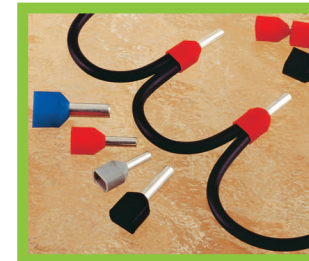
Catalogue No.	Nominal Conductor (mm ²)	Dimensions (mm)				Colour	Pack	Tooling
		L	P	B	D			
BLF0208BL	0.25	12	8	0.75	1.9	Blue	100	
BLF0308TQ	0.34	12	8	0.8	1.9	Pink	100	
BLF0510WH	0.5	16	10	1.0	2.6	White	100	
BLF0710BL	0.75	16	10	1.2	2.8	Blue	100	
BLF1010RD	1.0	16	10	1.4	3.0	Red	100	
BLF1510BK	1.5	16	10	1.7	3.5	Black	100	
BLF2512GY	2.5	18	12	2.2	4.2	Grey	100	
BLF4012OR	4	20	12	2.8	4.8	Orange	100	
BLF6012GR	6	20	12	3.5	6.3	Green	100	
BLF10012BN	10	22	12	4.5	7.6	Brown	100	
BLF16018IV	16	28	18	5.8	8.8	Ivory	100	
BLF25022BK	25	35	22	7.3	11.2	Black	100	
BLF35025RD	35	39	25	8.3	12.7	Red	100	



Twin & Uninsulated Bootlace Ferrules

Twin Wire BLFT Bootlace Ferrules

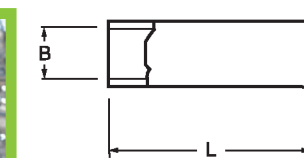
The twin wire BLFT range is specifically designed to terminate two wires in the same terminal. With the development of smaller switches and devices, housing have become smaller. The twin wire BLFT solves these problems in a quick and easy way.



Catalogue No.	Nominal Conductor (mm ²)	Dimensions (mm)					Colour	Pack	Tooling
		L	P	B	D	E			
BLFT0710GY	2 x 0.75	17.0	10.0	1.8	5.0	2.8	Grey	100	
BLFT1010RD	2 x 1.0	17.0	10.0	2.05	5.4	3.4	Red	100	
BLFT1512BK	2 x 1.5	20.0	12.0	2.3	6.6	3.6	Black	100	
BLFT4012GY	2 x 4.0	23.0	12.0	3.7	8.8	4.9	Grey	100	

Uninsulated Bootlace Pins - Cord End Connectors

CABRICAL's 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)		Pack	Tooling
		L	P		
BLFU0506	0.50	6	1.0	100	
BLFU0706	0.75	6	1.2	100	
BLFU0710	0.75	10	1.2	100	
BLFU1010	1.00	10	1.4	100	
BLFU1510	1.50	10	1.7	100	
BLFU2507	2.50	7	2.2	100	
BLFU2512	2.5	12	2.2	100	
BLFU4012	4	12	2.8	100	
BLFU6012	6	12	3.5	100	
BLFU10012	10	12	4.5	25	
BLFU16018	16	18	5.8	25	

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Terminals

Pre-Insulated Terminals

All terminals should be crimped onto the conductor using a CABRICAL crimping or any quality crimping 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.

Pre-Insulated

Stud Size	Conductor 0.5 - 1.6mm ²	Pack Qty	Single Grip	Double Grip
Ring Terminal - RT Range				
M3		100	RT1.25-3S	RT1.25-3DG
M4		100	RT1.25-4S	RT1.25-4DG
M5		100	RT1.25-5S	RT1.25-5DG
M6		100	RT1.25-6S	RT1.25-6DG
M8		100	RT1.25-8S	RT1.25-8DG
M10		100	RT1.25-10S	RT1.25-10DG
M12		100	RT1.25-12DG	

Stud Size	Conductor 0.5 - 1.6mm ²	Pack Qty	Single Grip	Double Grip
Forked Spade - FS Range				
M3		100	FS1.25-3S	F1.25-3DG
M3.2		100	FS1.25-3.2S	
M4		100	FS1.25-4S	FS1.25-4DG
M5		100	FS1.25-5S	FS1.25-5DG
M6		100	FS1.25-6S	FS1.25-6DG

Stud Size	Conductor 0.5 - 1.6mm ²	Pack Qty	Single Grip	Double Grip
Pin Connector - PC Range				
		100	PC1.25	PC1.25DG

Width	Conductor	Pack Qty	Single Grip	Double Grip
Lip Blade - LB Range				
Width 3mm		100	LB1.25-3	LB1.25-3DG
Width 5mm		100	LB1.25-5	LB1.25-5DG

Dim.	Conductor	Pack Qty	Single Grip	Double Grip
Flat Blade - FB Range				
Dim. 2.2 x 10		100	FB1.25-10	FB1.25-DG
Dim. 3 x 14		100	FB1.25-14	FB1.25-14DG
Dim. 2.2 x 18		100	FB1.25-18	FB1.25-18DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Bullet Connector - BC Range				
4mm Bullet		100	MBC1.25	MBC1.25DG
		25	FBC1.25	FBC1.25DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
In Line Slice - ILS Range				
		50	ILS1.25	ILS1.25DG

Tab	Conductor	Pack Qty	Single Grip	Double Grip
Quick Connector - QC Range				
Tab 6.4 x 0.8mm		100	PB1.25-6.4	PB1.25-6.4DG
Tab 2.8 x 0.5mm		100	QC1.25-2.8/5	QC1.25-2.8/5DG
Tab 2.8 x 0.8mm		100	QC1.25-2.8DG	
Tab 4.8 x 0.5mm		100	QC1.25-6.4	QC1.25-4.8/5DG
Tab 4.8 x 0.8mm		100	QC1.25-4.8/5	QC1.25-4.8DG
Tab 6.4 x 0.8mm		50	QC1.25-6.4	QC1.25-6.4DG
Tab 4.8 x 0.5mm		50	FIQC1.25-4.8/5	FQ1.25-2.8/5DG
				FQ1.25-4.8/5DG
Tab 6.4 x 0.8mm		100	FIQC1.25-6.4	FIQC1.25-6.4DG
Tab 6.4 x 0.8mm		100	MT1.25-6.4	MT1.25-6.4DG
				MT1.25-4.8/5DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
End Connector - EC Range				
		100	EC1	



Nominal Current Ratings

Terminal Colour	Red	Blue	Yellow
Conductor Range (mm ²)	0.5 - 1.6	1.0 - 2.6	2.5 - 6.0
Ring Terminal	24A	32A	48A
Forked Spade	18A	24A	36B
Pin Connector	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.

Stripping Lengths

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

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

Pre-Insulated

Stud Size	Conductor 1.0-2.6mm ²	Pack Qty	Single Grip	Double Grip
Ring Terminal - RT Range				
M3		100	RT2-3S	RT2-3DG
M4		100	RT2-4S	RT2-4DG
M5		100	RT2-5S	RT2-5DG
M6		100	RT2-6S	RT2-6DG
M8		100	RT2-8S	RT2-8DG
M10		100	RT2-10S	RT2-10DG
M12		100	RT2-12S	RT2-12DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Forked Spade - FS Range				
M3		100	FS2.25-3S	FS2.25-3DG
M3.2		100	FS2.25-3.2S	
M4		100	FS2.25-4S	FS2.25-4DG
M5		100	FS2.25-5S	FS2.25-5DG
M6		100	FS2.25-6S	FS2.25-6DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Pin Connector - PC Range				
		100	PC2	PC2DG
		100	PC2-12	

Width	Conductor	Pack Qty	Single Grip	Double Grip
Lip Blade - LB Range				
Width 3mm		100	LB2-3	LB2-3DG
Width 5mm		100	LB2-5	LB2-5DG

Dim.	Conductor	Pack Qty	Single Grip	Double Grip
Flat Blade - FB Range				
Dim. 2.8 x 9		100	FB2-9	FB2-9DG
Dim. 2.2 x 13		100	FB2-13	FB2-13DG
Dim. 2.2 x 18		100	FB2-18	FB2-18DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Bullet Connector - BC Range				
5mm Bullet		100	MBC2	MBC2DG
4mm Bullet				MBC2-4DG
4mm Bullet		100	FBC2	FBC2DG
4mm Bullet				FBC2-4DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
In Line Slice - ILS Range				
		100	ILS2	ILS2DG

Tab	Conductor	Pack Qty	Single Grip	Double Grip
Quick Connector - QC Range				
Tab 6.4 x 0.8mm		100	PB2-6.4	PB2-6.4DG
Tab 2.8 x 0.5mm		100		QC2-2.8DG
Tab 4.8 x 0.5mm		100	QC2-4.8/5	QC2-4.8/5DG
Tab 4.8 x 0.8mm		100		QC2-4.8DG
Tab 6.4 x 0.8mm		100	QC2-6.4	QC2-6.4DG
Tab 4.8 x 0.5mm		50	FIQC 2-4.8/5	
Tab 6.4 x 0.8mm		50	FIQC2-6.4	FIQC2-6.4DG
Tab 6.4 x 0.8mm		100	MT2-6.4	MT2-6.4DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
End Connector - EC Range				
		100	EC2	

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

Breakdown voltage
 Insulation resistance
 Working voltage
 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

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

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 (mm2)	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

Stud Size	Conductor 2.5-6.0mm ²	Pack Qty	Single Grip	Double Grip
Ring Terminal - RT Range				
M3		50	RT5.5-3S	RT5.5-3DG
M4		50	RT5.5-4S	RT5.5-4DG
M5		50	RT5.5-5S	RT5.5-5DG
M6		50	RT5.5-6S	RT5.5-6DG
M8		50	RT5.5-8S	RT5.5-8DG
M10		50	RT5.5-10S	RT5.5-10DG
M12		50	RT5.5-12S	RT5.5-12DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Forked Spade - FS Range				
M3		50	FSS.5-3S	FSS.5-3DG
M4		50	FSS.5-4S	FSS.5-4DG
M4.3		50		FSS.5-4DGA
M5		50	FSS.5-5S	FSS.5-5DG
M6		50	FSS.5-6S	FSS.5-6DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Pin Connector - PC Range				
		50	PC5.5	PC5.5DG

Dim.	Conductor	Pack Qty	Single Grip	Double Grip
Flat Blade - FB Range				
Dim. 2.8 x 10		50	FB5.5-5-10	FB5.5-10DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
In Line Slice - ILS Range				
		50	ILS5.5	ILS5.5DG

Tab	Conductor	Pack Qty	Single Grip	Double Grip
Quick Connector - QC Range 0.8mm Tabs				
Tab 6.4mm		50	QC5.5-6.4	QC5.5-6.4DG
Tab 6.4mm		50	MT5.5-6.4	MT5.5-6.4DG
Tab 6.4mm		25		FIQC5.5-6.4DG
Tab 6.4mm		25		FIMT5.5-6.4DG
Tab 9.5mm		50	QC5.5-9.5	QC5.5-9.5DG

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Bullet Connector				
5mm Bullet		50		FBC5.5DG

Un-Insulated & Brass Range

Stud Size	Conductor	Pack Qty	Single Grip	Double Grip
Quick Connector Brass - QCB Range				
Tab 6.4mm x 0.8		100	UQC2-6.4	UQC55-6.4
Tab 6.4mm x 0.8		100	UMT2-6.4	

Terminal Block Connector Strip

Catalogue No.	Clamping Area	Current	Unit	A	B	C	D	E	F	Pack Qty
CTB3MBK	4.0mm ²	3A	(mm)	94.5	16.2	12.8	8.0	2.8	2.8	10
CTB5BK	6.0mm ²	5A	(mm)	118.2	19.6	16.0	10.0	4.3		