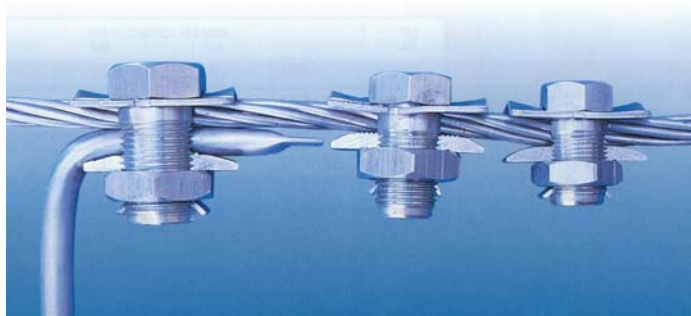


BOWTHORPE

Line Taps & Accessories

October 2009



BOWTHORPE

Overhead Network Fittings
Bowthorpe Line Taps & Accessories



HAMER

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Bowthorpe Line Taps



BOWTHORPE

The general design of the HD line tap has been available in New Zealand since the late 1940's and as such, has proven to be remarkably successful and trouble free, with a long operating life.

The connectors now available have been made in New Zealand since 1960 and approximately 16 million of these have been supplied to the New Zealand market with minimal occurrence of faults. Our Bowthorpe HD range is in use in 14 different countries throughout Europe and the Middle East as well as a further 8 countries in the South Pacific/ South East Asia region.

BRITISH STANDARD SPECIFICATIONS

Split bolt connectors are referred to in BS3288 and all our HD range has been type tested to BS3288: Part 1: 1973. The tests reveal that the connectors have been successfully type tested and heat cycled over many operations and the range of loads specified by BSS show that at the conclusion of such tests there has been no significant increase in the resistance of the joint.

ADVANTAGES OF USING HD SERIES LINE TAPS

- Proven design
- Indefinite life
- Simple to install
- Type tested to British Standard specifications
- Each connector fits a range of conductor sizes
- Does not require special fitting tools
- Five sizes cover the range of conductors up to 120 sq. mm.
- Inexpensive
- Does not distort or damage the conductor during the fitting process
- Can be easily removed

CONCLUSION

We believe the history of the Bowthorpe line tap in this country and the use of split bolt connectors worldwide indicates this is the most successful design for easy tapping of copper overhead lines.

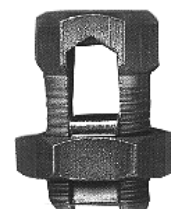


Tinned Brass Line Taps HD Series (Heavy Duty)

HD Series Line Taps are made from British Standard materials, & are electrically tested to BS3288: 1, 1973

LINE TAPS

Hamer Code	Cat. No.	Box Pack
BL500	HD9	500
BL510	HD10	200
BL520	HD12	150
BL530	HD12A	100
BL540	HD13	50
BL550	HD14	50
BL565	HD15	25
BL575	HD18	25

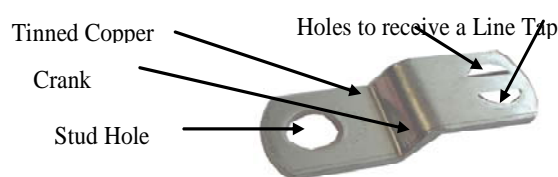


Overhead Network Fittings
Bowthorpe Line Taps & Accessories



PALMS FOR HD LINE TAPS

Hamer Code	Cat. No.	Description
BL760	HD10P	For HD10 (& LD16) line taps
BL765	HD12P	For HD12 line taps
BL770	HD12AP	For HD12A (& LD35) line taps
BL775	HD14P	For HD14 (& LD70) line taps
BL900	HD12APTH	Braised flat palm for HD12A
BL920	HD12A & Palm	Palm assembly with line taps



APPLICATION GUIDE

Hamer Code	Model No.	Description			Torque* Setting (Nm)
		CSAmm ²	Ø mm	Strand Ø inches	
BL500	HD9	4 → 7	2.7 → 4.1	7/.036 → 7/.044	5 → 10
BL510	HD10	6 → 16	3.8 → 5.8	7/.052 → 7/.064	10 → 15
BL520	HD12	10 → 25	4.3 → 6.6	7/.064 → 7/.083	15 → 20
BL530	HD12A	16 → 35	5.3 → 8.12	7/.067 → 19/.064	20 → 25
BL540	HD13	25 → 50	6.6 → 10.16	7/.083 → 19/.072	40 → 45
BL550	HD14	25 → 70	7.3 → 11.17	7/.083 → 19/.083	50 → 55
BL565	HD15	35 → 95	8.8 → 13.46	7/.116 → 37/.072	105 → 110
BL575	HD18	50 → 120	10.5 → 16.10	19/.083 → 37/.083	105 → 110

Tinned Brass Line Taps HDTC Series (Trans Connector)

HDTC - DRILLED & TAPPED HEAD

Hamer Code	Cat. No.	Conductor External Ø (inches)	Thread Size
BL610	HD12TC	7/.083	5/16" Whit
BL620	HD12ATC	19/.064	3/8" Whit



HDTCS - ATTACHED STUD

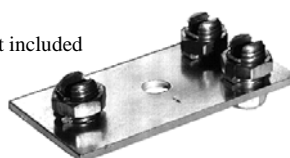
Hamer Code	Cat. No.	Conductor External Ø (inches)	Thread Size
BL670	HD12TCS	7/.083	5/16" Stud & 1 nut
BL680	HD12ATCS	19/.064	3/8" Stud & 1 nut
BL690	HD13TCS	19/.072	3/8" Stud & 1 nut
BL700	HD14TCS	19/.083	1/2" Stud & 1 nut
BL710	HD15TCS	37/.072	1/2" Stud & 1 nut
BL730	HD18TCS	37/.083	1/2" Stud & 1 nut



EARTH & NEUTRAL BAR - FOR POLE MOUNTING

Hamer Code	Cat. No.	Description
BL740	ETB/3	Earth bar for three HD12A line taps
BL741	ETB/4	Earth bar for four HD14 line taps
BL742	ETB/312	Earth plate for four HD14 line taps
BL743	ETB 4way	Earth bar for four HD12A line taps
BL746	ETB/6-HD1	Earth neutral bar for 6 HD12A line taps
BL747		Top Energy earth bar for 4 HD14
BL748	HD13PTH	Terminal Plate
BL779	A6134	Neutral Bar with Four M8 Bolts Tapped
BL780	A6134/2	Neutral Bar for Six HD12A Line Taps

NB: Line Tap not included



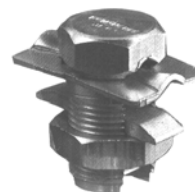
BL779



Tinned Brass Line Taps LD Series (Light Duty)

LD LINE TAPS

Hamer Code	Cat. No.	Box Pack
BL800	LD16	200
BL810	LD35	100
BL820	LD70	50



APPLICATION GUIDE

Hamer Code	Model No.	Conductor Range (Minimum → Maximum)		
		CSA mm ²	Ø mm	Strand Ø Inches
BL800	LD16	6 → 16	3.8 → 5.3	7/.052 → 7/.064
BL810	LD35	16 → 35	5.3 → 8.3	7/.067 → 19/.064
BL820	LD70	25 → 70	7.3 → 10.9	7/.0974 → 19/.083

ALUMINUM LINE TAPS

Hamer Code	Cat. No.	Torque Setting (Nm)	Fits (max.) 2 Conductors	
			External Ø (inches)	External Ø (mm) Slot Width
BL300	AL58	40 → 45	0.300	7.6
BL320	AL62	50 → 55	0.405	10.3
BL330	AL63	80 → 85	0.520	13
BL340	AL64	120 → 125	0.575	14.5

“BI-METAL” CONNECTOR TUBES

Hamer Code	Cat. No.	Internal Diameter	
		(inches Ø)	(mm Ø)
BL400	Size 1A	0.248	6.3
BL410	Size 2A	0.312	7.9
BL420	Size 3A	0.375	9.5



SUNDRIES (special order only)

Hamer Code	Cat. No.	Description
BL850	LTF1	Tee Ferrules for 16mm ²

