

Sourcing a fuse?

There are 1000s of different fuses from many manufacturers worldwide. When trying to source a fuse the following information will be very useful: **Manufacturer** | **Part Number** | **Dimensions** (Length of fuse body, diameter, overall length, width) | **Current rating in amps**

If the above information is unavailable, these following questions will help identify the correct fuse:

Voltage (AC or DC) | Characteristic (eg: gL,aM,gR) | Approvals (eg: UL, IEC) | Fixing centres (how far apart - if relevant) | How is the fuse mounted (If relevant) | What is the fuse protecting | Does the fuse have an indicator | Does the fuse have a striker to operate a microswitch?

Understanding General Fuse Terminology

Miniature Fuses:

- FF - Ultra rapid
- F or QA or QB - Fast blow
- M or MD - Medium blow
- T or SB - Slow Blow / Time delay / Anti surge
- TT - Ultra slow

Bottle Fuses:

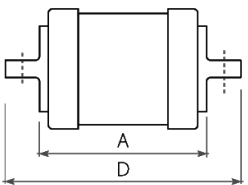
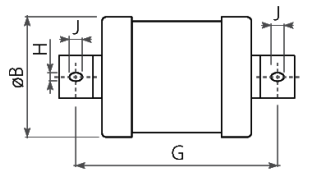
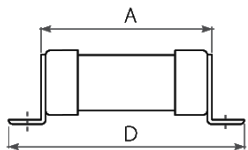
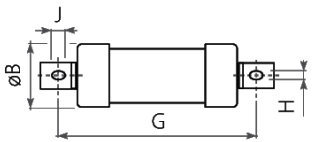
- DIAZED 500V Bottle fuses DI (E16), DII (E27), DIII (E33)
- NEOZED 380V Bottle fuses D01 (E14), D02 (E18)
- SILAZED Ultra Rapid Bottle fuses DII (E27), DIII (E33)

Industrial Fuses:

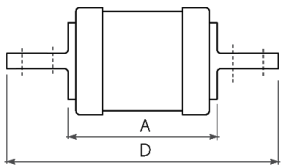
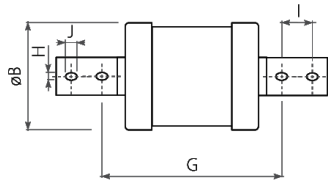
- aR or gR or uR - Ultra rapid
- gL/gG - General line
- aM - Motor rated
- gF/gTF - Transformer / Cable protection
- gB - Mining fuses



BS88 Industrial Fuse Comparison Chart with Fixing Centres								
Fixing Centres	Rating Amps	BS88 Ref	Europa Order Code	GE Power (GEC)	Lawson	Cooper Bussmann	MEM	Brush
Off Set Tags								
44.5mm	2-32A	F1	BN55VXX	NS	NS	NSD	SN2	FO6
44.5mm	2-20A	-	SS	SS	SS	SSN	SS	D04
44.5mm	2-32A	A1	BNIT55VXX	NIT	NIT	NITD	SA2	F21
73mm	2-32A	A2	BTIA55VXX	TIA	TIA	AAO	SB3	HO7
73mm	32-63A	A3	BTIS42VXX	TIS	TIS	BAO	SB4	KO7
94mm	63-100A	A4	BTCP42VXX	TCP	TCP	CEO	SD5	L14
94mm	125-200A	-	BTFP42VXX	TFP	TFP	DEO	SD6	M14
Central Tags								
97mm	2-63A	-	TB	TB	TB	BC	SE4	KO8
111mm	6-63A	B1	BTBC42VXX	TBC	TBC	AD/BD	SF5	-
111mm	80-100A	B1	BTC42VXX	TC	TC	CD	SF5	LO9
111mm	125-200A	B2	BTF42VXX	TF	TF	DD	SF6	MO9
111mm	250-315A	B3	BTKF42VXX	TKF	TKF	ED	SF7	NO9
133mm	250-315A	C1	BTKM42VXX	TKM	TKM	EFS	SG7	N11
111mm	355-400A	B4	BTMF42VXX	TMF	TMF	ED	SF8	PO9
133 / 184mm	355-400A	C1	BTM42VXX	TM	TM	EF	SH8	P11
134 / 184mm	450-630A	C2	BTTM42VXX	TTM	TTM	FF	SH9	R11
133 / 184mm	670-800A	C3	BTLM42VXX	TLM	TLM	GF	SH10	S11



Look Up Table for Solid / Neutral Links (Type SL)						
BS88 Reference (And Fixing Centres)	Catalogue No:	Current Rating	Box Qty	Fixing Centres (mm)	Replaces Fuse Type	
					415V	600V
BS88 Bolted Type						
A1 (44.5mm)	SLA1	20	10	44.5	NIT	SSA1
A2 (73mm)	SLA2	32	10	73	TIA/GTIA	SSA2
A3 (73mm)	SLA3	63	10	73	TIA/TIS	SSA3
A4 (94mm)	SLA4	100	5	94	TCP	SSA4
(As A4) (94mm)	SLA4	200	5	94	TFP	SSFP
BS88 Compact Dimension Type						
E1	SLE1	20	10	N/A	SS	
F1	SLF1	32	10	N/A	NS	
F2	SLF2	63	10	N/A	MES	



Dimensions	A	øB	D	G	H	J	I
Fuse	Max	Max	Max	Nom	Nom	Min	Min
A2-A3	58	27	91	73	5.5	7	
A4	70	37	111	94	8,7	9,5	
B1	70	37					
B2							
B3	77	42	138	111	8,7	11	
B4	83	66					
C1	83	66					
C2	85	77	212	133	10,3		25,4
C3	89	84				12,5	



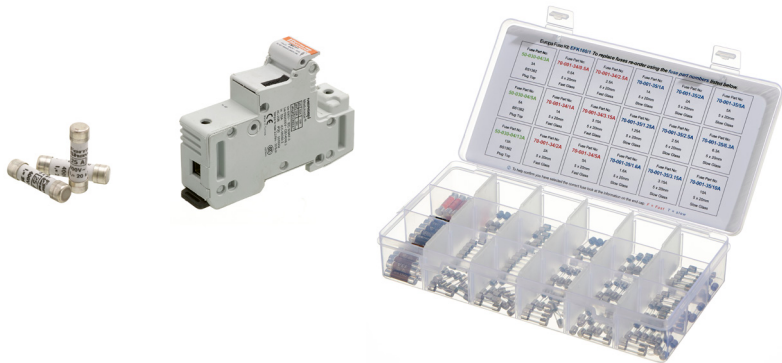
Comparison Chart for Clip Fit Fuse Holders				
Mersen	Lawson Reference	Bussmann Hawker	GEC Alsthom	To Fit Fuse
BFF32F1	LCF32FC/FCBK	32NNSF	SC32H-D	NS
-	LCF32FC/BBCBK	-	SC32BH	NS
BFB31F1	LCF32FC/BCBK	32NNSFBS	-	NS
BBB32F1	LCF32BC/BCBK	32NNBSBS	SC32P	NS
-	LCF32FC/FCWH	32NNSF/W	SC32H-D WHITE	NS
-	LCF32FC/BBCWH	-	-	NS
-	LCF32FC/BCWH	32NNSFBS/W	-	NS
-	LCF32BC/BCWH	32NNBSBS/W	SC32PWHITE	NS
BFF63F2	LCF63FC/FCBK	63ENSF	SC63H-D	MES
BFB63F2	LCF63FC/BBCBK	-	SC63BH	MES
-	LCF63FC/BCBK	63ENSFBS	-	MES
-	LCF63BC/BCBK	63ENSBS	SC63P	MES
-	LCF63FC/FCWH	63ENSF/W	SC63H-D WHITE	MES
-	LCF63FC/BBCWH	-	-	MES
-	LCF63FC/BCWH	63ENSFBS/W	-	MES
-	LCF63BC/BCWH	63ENBSBS/W	-	MES



Comparison Chart for Bolt in Fuse Holders						
Mersen	Lawson Reference	Bussmann Hawker	GEC Alsthom	MEM	Dorman Smith	To Fit Fuse
BFF32A1 BFB32A1	LBI20FC/FCBK LBI20FC/BCBK LBI20BC/BCBK	32NF CM32FC 32NFBS 32NBS	RS20H RS20PH RS20P	20MFB 20MFD 20MFC	32NNF 32NNFB 32NNBS	NIT NIT NIT
BFF32A2 BFB32A2 BBB32A2	LBI32FC/FCBK LBI32FC/BCBK LBI32BC/BCBK	32AF CM32F 32AFBS 32ABS	RS32H RS32PH RS32P	32MFB 32MFD 32MFC	2AF 32AFBS 32ABS	GTIA/TIA GTIA/TIA GTIA/TIA
BFF63A3 BFB63A3 BBB63A3	LBI63FC/FCBK LBI63FC/BCBK LBI63BC/BCBK	63BF CM63F 63BFBS 63BBS	RS63H RS63PH RS63P	63MFB 63MFD 63MFC	63BF 63BFBS 63BBS	TIS TIS TIS
BFF125A4 BFB125A4 BBB125A4	LBI100FC/FCBK LBI100FC/BCBK LBI100BC/BCBK	100CF CM100F 100CFBS 100CBS	RS100H RS100PH RS100P	100MF 100CFB 100MFC	100CF 100CFBS 100CBS	TCP TCP TCP
-	LBI200FC/FCBK LBI200FC/BCBK LBI200BC/BCBK	200DF 200DFBS 200DBS	RS200H RS200PH RS200P	200MFB 200MFD 200MFC	200DF 200DFBS 200DBS	TF TF TF

Semi Conductor Fuses to BS88 Cross Reference Chart	
Europa Part Number	Equivalent part numbers
50-076-06/XA	LCT GSA
50-053-06/XA	LET GSA GSD
50-054-06/XA	LMT GSA GSD
50-077-06/XA	CT GSB
50-073-06/XA	ET FE GSGB
20-559-20/XA	EET
50-074-06/XA	MT GSGB
50-075-06/XA	MMT GSGB

BS88 J Type Fuse Cross Reference Chart				
Lawson	GE Power (GE)	Brush	Bussmann	MEM
JHU	96TY	MJ29	JHDS	JW6 / JWS6
JPU	95TY / 95TJ / 171TN	MJ27 / MJ30 / PJ30	JPDS / JOPCS / J1PCS / J2PCS	JX6 / JX7 / JX8 / JXS6 / JXS7 / JXS8
JSU	385TJ / 386TN / 387TW	MJ31 / PJ31 / SJ31	JSDS / JOSCS / J1SCS / J2SCS / J3SCS	JY7 / JY8 / JY10 / JYS7 / JYS8 / JYS10



A comprehensive range of fuses are available from stock including Cylindrical Fuses | Miniature Fuses | Fuse Kits | Bottle Fuses & more

American Fuse Comparison Chat		
Mersen	Bussman	Littlefuse
ATM	KTK	KLK
TRM	FNM	FLM
ATQ	FNQ	FLQ
OTM	BAN	BLN
OTM	BAF	BLF
SBS	BBS	BLS
GRN	FNA	FLA
ATDR	LPCC	CCMR
ATQR	FNQR	KLDR
ATMR	KTKR	KLKR
AG	SC	SLC



Comparison Chart for American Semiconductor Fuses			
Voltage	Ferraz Shawmut	Bussmann	Littlefuse
150V AC	A13X	KAA/KAH/KAW	L15S
250V AC	A25X	KAB/KAX	L25S
500V AC	A50P	KBH/KLH	L50S
500V AC	A50P	FWH	-
600V AC	A60X	KBC	L60S
700V AC	A70P	FWP	L70S
500V AC	A50QS	XL50F (Brush)	-
700V AC	A70Q	XL70F (Brush)	-
1000V AC	A100P	XL100F (Brush)	-

A full set of look up tables can be found at the back of the Europa catalogue, also available to view online: www.europa-plc.com/downloads

Also be sure to check our **Knowledge Base** for handy tips on selecting the right type of fuse for your installation requirements.

If you still need further guidance our expert technical team are on hand to help. Raise a ticket via email for a quick response: technical@europa-plc.com or call direct on 01582 692 444