HEB breakaway and non-breakaway in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses



Catalog Symbol: HEB*

Description:

The Bussmann™ series of HEB submersible, single-pole in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses. Available in non-breakaway and breakaway versions with an array of terminal options to meet application needs. Breakaway versions come with insulating boots to provide submersibility per UL IP67. Non-breakaway versions require ordering optional insulating boots for submersibility.

Recommended fuses:

BAF, FNM, FNQ, KLM and KTK

Ratings:

Volts: 600V

Amps: up to 30A limited by conductor size

Withstand: 200kA RMS Sym.

Agency information:

UL® Recognized, Guide IZLT2, File E14853

CSA® Certified, Class 622501, File 47235

CE, RoHS compliant†

Coupling nut torque:

10-20 Lb-In (1.1-2.2 N•m)

Operating and storage temperature:

-40°F (-40°C) to 221°F (105°C)

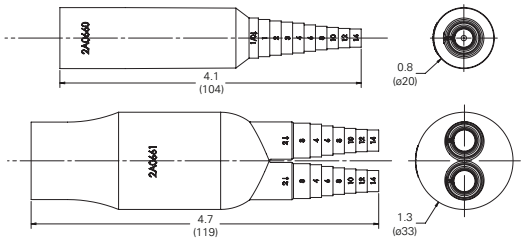
Insulating boots:

Two insulating boots come standard with the breakaway holder configurations. Insulating boots are not included as standard with non-breakaway holders. Two insulating boots must be ordered separately, if required, for each non-breakaway holder ordered. When insulating boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.

Use these part numbers to order insulating boots for a non-breakaway HEB holder:

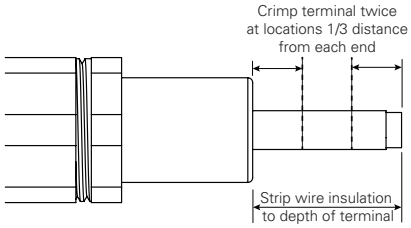
Description	Catalog no.
Single conductor	2A0660
Dual conductor	2A0661

Boot reference:



Installation instructions:

Strip wire insulation equal to the depth of the crimp or screw terminal. Torque screw terminal to 35 Lb-In (3.9 N•m) or crimp terminal twice, spacing crimps a distance of one-third from each end (as shown below) using an appropriate crimp tool and die. See page 5 for recommended crimping tools.



Related products:

Catalog no.	Description	Data sheet no.
HEX	Two-pole supplemental in-line fuse holder	2126
HEZ	One-pole Class CC in-line fuse holder	2130
HEY	Two-pole Class CC in-line fuse holder	2126
HET	One-pole in-line, permanently installed neutral	2125
NNB	13/32" x 1-1/2" neutral dummy link (not a fuse)	—

* The Bussmann series HEB in-line fuse holders are the legacy Bussmann TRON™ HEB in-line fuse holders.

† See terminal data tables for exceptions.

Powering Business Worldwide

Bussmann series HEB breakaway and non-breakaway in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses

Non-breakaway catalog number system

HEB - A A

To order:

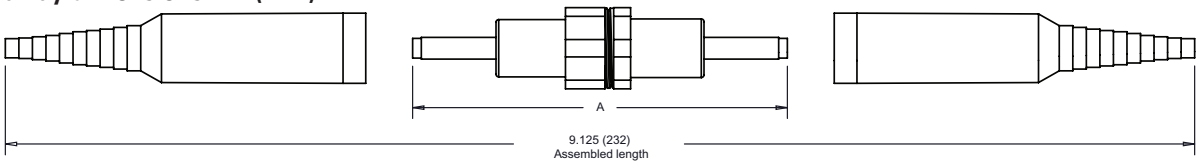
Specify catalog symbol HEB and the loadside terminal code. Then select a lineside terminal code that is available with the loadside terminal. Example: HEB-BB defines a non-breakaway holder with a loadside copper crimp terminal for a single #6 or two #10 wires with a lineside copper crimp terminal for a single #6 or two #10 wires.

Catalog symbol	Loadside terminal	Lineside terminal	Agency Information		Loadside terminal		Lineside terminal		Reference length A	Breakaway equivalent
			UL	CSA	Terminal type	Wire range*	Terminal type	Wire range*		
HEB	A	A	X	X	Cu crimp	#8-16; (2) #12-16	Cu crimp	#8-16; (2) #12-16	4.4 (112)	HEB-AW-RLC-A
		B	X	X	Cu crimp	#8-16; (2) #12-16	Cu crimp	#6; (2) #10	4.4 (112)	HEB-AW-RLC-B
		C	X	X	Cu crimp	#8-16; (2) #12-16	Cu crimp	#4 str; (2) #8	4.7 (119)	HEB-AW-RLC-C
		D	X	X	Cu crimp	#8-16; (2) #12-16	Cu crimp	#2 str; (2) #6	4.7 (119)	—
		J	X	—	Cu crimp	#8-16; (2) #12-16	Cu setscrew	#3-12	4.7 (119)	HEB-AW-RLC-J
		K	X	—	Cu crimp	#8-16; (2) #12-16	Cu dual setscrew	#2-12†	4.8 (122)	HEB-AW-RYC
		R	—	—	Cu crimp	#8-16; (2) #12-16	Al crimp	#1-2	4.9 (124)	—
		L	—	—	Cu crimp	#8-16; (2) #12-16	Al setscrew	#2-12	4.7 (119)	HEB-AW-RLA
		W	—	—	Cu crimp	#8-16; (2) #12-16	Cu solid	—	4.4 (112)	—
		Y	—	—	Cu crimp	#8-16; (2) #12-16	Al dual setscrew	#2-12†	4.8 (122)	HEB-AW-RYA
	B	A	X	X	Cu crimp	#6; (2) #10	Cu crimp	#8-16; (2) #12-16	4.4 (112)	HEB-BW-RLC-A
		B	X	X	Cu crimp	#6; (2) #10	Cu crimp	#6; (2) #10	4.4 (112)	HEB-BW-RLC-B
		C	X	X	Cu crimp	#6; (2) #10	Cu crimp	#4 str; (2) #8	4.7 (119)	—
		D	X	X	Cu crimp	#6; (2) #10	Cu crimp	#2 str; (2) #6	4.7 (119)	—
		W	—	—	Cu crimp	#6; (2) #10	Cu solid	—	4.4 (112)	—
	C	C	X	X	Cu crimp	#4 str; (2) #8	Cu crimp	#4 str; (2) #8	5 (127)	—
	D	D	X	X	Cu crimp	#2 str; (2) #6	Cu crimp	#2 str; (2) #6	5 (127)	—
	Z	A	—	—	Cu crimp	#18-20	Cu crimp	#8-16; (2) #12-16	4.4 (112)	—
	J	J	X	—	Cu setscrew	#3-12	Cu setscrew	#3-12	5 (127)	HEB-JW-RLC-J
		K	X	—	Cu setscrew	#3-12	Cu dual setscrew	#2-12†	5.1 (129)	HEB-JW-RYC
		L	—	—	Cu setscrew	#3-12	Al setscrew	#2-12	5 (127)	—
		W	—	—	Cu setscrew	#3-12	Cu solid	—	4.8 (122)	—
		Y	—	—	Cu setscrew	#3-12	Al dual setscrew	#2-12†	5.1 (129)	—

* Solid/stranded conductors unless otherwise noted.

† Not dual wire rated. One wire per opening.

Non-breakaway dimensions - in (mm):



Non-breakaway catalog number system

HEB - A A

Catalog symbol	Loadside terminal	Lineside terminal	Agency Information UL	Agency Information CSA	Loadside terminal: Terminal type	Loadside terminal: Wire range*	Lineside terminal: Terminal type	Lineside terminal: Wire range*	Reference length A	Breakaway equivalent
HEB	L	L	—	—	Al setscrew	#2-12	Al setscrew	#2-12	5 (127)	HEB-LW-RLA
	N	N	—	—	Al crimp	6 sol; 8 str	Al crimp	#6 sol; #8 str	5.4 (137)	—
	P	P	—	X	Al crimp	4 sol; 6 str	Al crimp	#4 sol; #6 str	5.4 (137)	—
	Q	Q	—	X	Al crimp	#2 sol; #3-4 str	Al crimp	#2 sol; #3-4 str	5.4 (137)	—
	R	R	—	X	Al crimp	#1-2 str	Al crimp	#1-2 str	5.4 (137)	—
	T	T	—	X	Al crimp	1/0 str	Al crimp	1/0 str	5.4 (137)	—
	W	W	—	—	Cu solid	—	Cu solid	—	4.4 (112)	—

* Solid/stranded conductors unless otherwise noted.

Non-Breakaway terminal data

Terminal type	Conductor data: Size	No. per terminal	Solid	Stranded	Catalog symbol [Load /Line]
Cu crimp	#8-16	1	•	•	A
	#10-16	2	•	•	
	#6	1	•	•	B
	#10	2	•	•	
	#4	1	—	•	C††
	#8	2	•	•	
	#2	1	—	•	D††
	#6	2	•	•	
	#18-20	1	•	•	Z
Cu setscrew	#3-12	1	•	•	J
Cu dual setscrew	#2-12	2†	•	•	K
Cu solid	—	—	—	—	W

Terminal type	Conductor data: Size	No. per terminal	Solid	Stranded	Catalog symbol [Load /Line]
Al crimp	#8	1	—	•	N
	#6	1	•	—	
	#6	1	—	•	P
	#4	1	•	—	
	#3-4	1	—	•	Q
	#2	1	•	—	
	#1-2	1	—	•	R
	#1/0	1	—	•	T
Al setscrew	#2-12	1	•	•	L
Al dual setscrew	#2-12	2†	•	•	Y

† Not dual wire rated. One wire per opening.
†† Fuse holder assemblies using this terminal are not RoHS compliant.

Bussmann series HEB breakaway and non-breakaway in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses

Breakaway catalog number system

HEB - A W - RYC

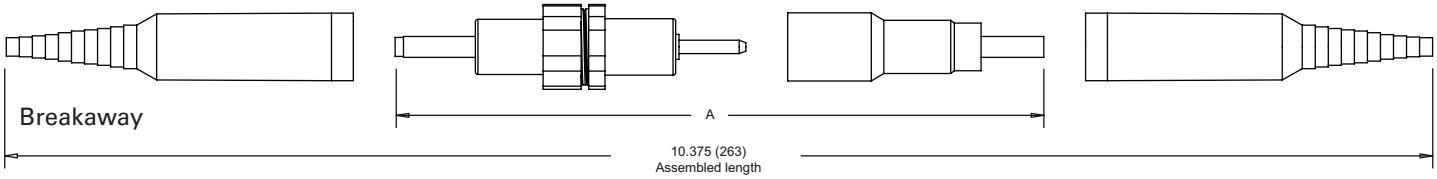
To order:

Specify catalog symbol HEB and the loadside terminal code plus the letter "W." Then select a lineside terminal code that is available with the loadside terminal. Example: HEB-BW-RCL-B defines a breakaway holder with a loadside copper crimp terminal for a single #6 or two #10 wires with a lineside copper crimp terminal for a single #6 or two #10 wires.

Catalog symbol	Loadside terminal	Lineside terminal	Agency Information		Loadside terminal		Lineside terminal		Length A (reference)	Non-breakaway equivalent
			UL	CSA	Terminal type	Wire range*	Terminal type	Wire range*		
HEB	A	RLC-A	X	X	Cu crimp	#8-16; (2) #12-16	Cu crimp	#8-16; (2) #12-16	5.8 (147)	HEB-AA
		RLC-B	X	—	Cu crimp	#8-16; (2) #12-16	Cu crimp	#6; (2) #10	5.9 (150)	HEB-AB
		RLC-C	X	—	Cu crimp	#8-16; (2) #12-16	Cu crimp	#4 str; (2) #8	6.2 (158)	HEB-AC
		RLC-J	X	—	Cu crimp	#8-16; (2) #12-16	Cu setscrew	#3-12	6.2 (158)	HEB-AJ
		RYC	X	—	Cu crimp	#8-16; (2) #12-16	Cu dual setscrew	#2-12†	6.3 (159)	HEB-AK
		RLA	—	—	Cu crimp	#8-16; (2) #12-16	Al setscrew	#2-12	6.2 (158)	HEB-AL
		RYA	—	—	Cu crimp	#8-16; (2) #12-16	Al dual setscrew	#2-12†	6.3 (159)	HEB-AY
	B	RLC-A	X	—	Cu crimp	#6; (2) #10	Cu crimp	#8-16; (2) #12-16	5.8 (147)	HEB-BA
		RLC-B	X	—	Cu crimp	#6; (2) #10	Cu crimp	6#; (2) #10	5.9 (150)	HEB-BB
		RYC	X	—	Cu crimp	#6; (2) #10	Cu dual setscrew	#2-12†	6.3 (159)	—
	J	RLC-J	X	—	Cu setscrew	#3-12	Cu setscrew	#3-12	6.2 (158)	HEB-JJ
		RYC	X	—	Cu setscrew	#3-12	Cu dual setscrew	#2-12†	6.3 (159)	HEB-JK
	K	RLC-J	X	—	Cu dual setscrew	#2-12†	Cu setscrew	#3-12	6.2 (158)	—
		RYC	X	—	Cu dual setscrew	#2-12†	Cu dual setscrew	#2-12†	6.3 (159)	—
	L	RLA	—	—	Al setscrew	#2-12	Al setscrew	#2-12	6.2 (158)	HEB-LL
		RLC-J	—	—	Al setscrew	#2-12	Cu setscrew	#3-12	6.2 (158)	—
		RYA	—	—	Al setscrew	#2-12	Al dual setscrew	#2-12†	6.3 (159)	—

* Solid/stranded conductors unless otherwise noted.
† Not dual wire rated. One wire per opening.

Dimensions - in (mm):



Breakaway loadside terminal data

Terminal type	Conductor data: Size	No. per terminal	Solid	Stranded	Catalog symbol [Load /Line (2) & (3)]
Cu crimp 	#8-16	1	•	•	A
	#10-16	2	•	•	
	#6	1	•	•	B
	#10	2	•	•	
Cu setscrew 	#3-12	1	•	•	J
Cu dual setscrew 	#2-12	2†	•	•	K
Al setscrew 	#2-12	1	•	•	L

† Not dual wire rated. One wire per opening.
†† Fuse holder assemblies using this terminal are not RoHS compliant.

Breakaway lineside terminal data

Terminal type	Conductor data: Size	No. per terminal	Solid	Stranded	Catalog symbol
Cu crimp 	#8-16	1	•	•	-RLC-A
	#12-16	2	•	•	
	#6	1	•	•	-RLC-B
	#10	2	•	•	
	#4	1	—	•	-RLC-C††
	#8	2	•	•	
Cu setscrew 	#3-12	1	•	•	-RLC-J
Cu dual setscrew 	#2-12	2†	•	•	-RYC
Al setscrew 	#2-12	1	•	•	-RLA
Al dual setscrew 	#2-12	2†	•	•	-RYA

Recommended crimping tools:

A wide variety of crimping tools can be used with the HEB fuse holders. Some of the commercially available tools are listed in the table below. This list is not intended to exclude the use of other crimping tools that can provide similar crimps or indents.

HEB terminal	T & B P/N (Die)
A	WT-111M (Die C)
	Sta-Kon ERG4002 (Die C)
B	WT-115A (Die D)
C	TBM5 (Grey Die)
	WT-115A (Die E)
D	TBM5 (Brown Die)
	TBM8 (Brown Die)
	WT-115A (Die F)
Z	WT-111M (Die A)
	Sta-Kon ERG4002 (Die A)
N, P, Q, R, T	TBM8 (Orange Die)

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