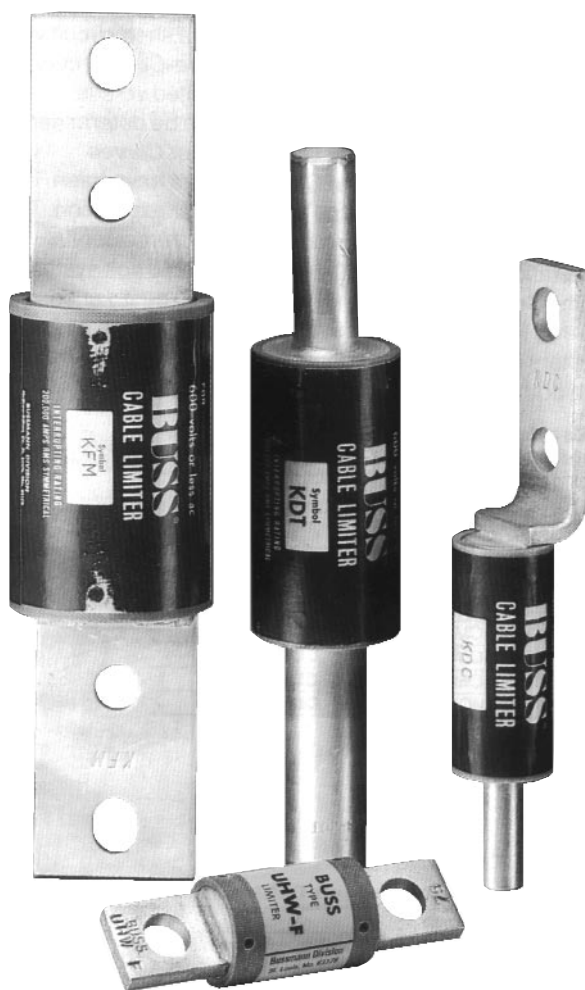


Cable Limiters

600 Volt Copper Limiters

K Series



Catalog Symbol: K Series
Cable Limiters
Interrupting Rating: 200,000A, RMS Sym.
Voltage Rating: 600Vac

General Information:

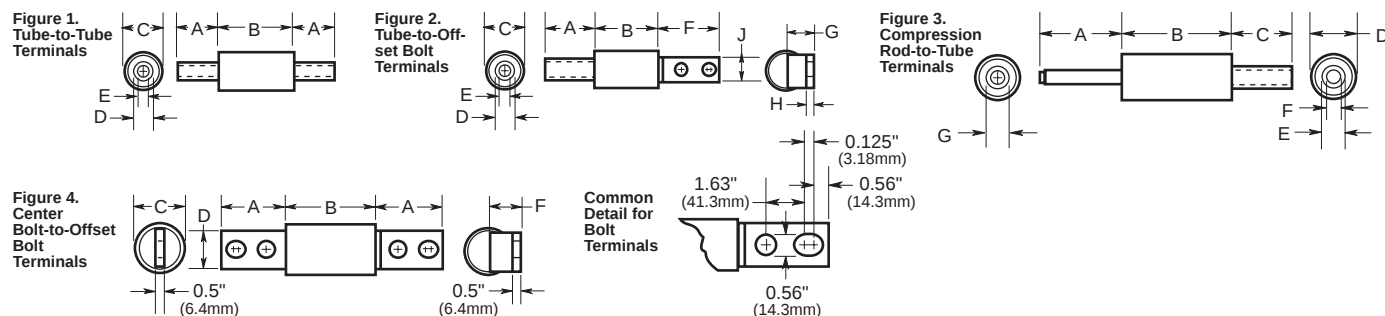
- Selection: unlike fuses, the current-carrying capacity of cable limiters is denoted by cable size rather than amperage.
- For example, a "4/0" limiter will carry the current of a 4/0 cable.
- Buss Cable Limiters help protect cables against short-circuit currents.
- Increase system reliability.
- Cable limiters installed at each end of each cable are an excellent method to maximize continuity of service when there are three or more cables per phase. If one cable has a fault, that cable's limiters open and the other cables' limiters continue carrying current. Cable limiters are often used in utility low voltage networks and large multi-cable per phase service entrances.
- Under high short-circuit conditions, they can cut off fault currents within one-half cycle (0.008 seconds).
- This fast action reduces insulation damage from the immense heat that is developed by sustained fault current flow (often 30,000, 50,000, 70,000, 150,000A magnitude).
- Reduces the high build-up of mechanical forces due to intense magnetic fields.
- Cable limiters help confine damage to the point of the short-circuit. Help stop long-length cable burn-back and striking of multiple arcs.
- Apart from the loss of power and operational shutdown, short-circuits can do devastating damage to conductors.
- The cost of total replacement of cables, particularly when they are buried underground, outweighs the nominal cost of cable limiter protection.
- Without the protection of limiters, under short-circuit conditions, a cable may continue to arc at several points and cause severe damage to other components of the system...it does not necessarily burn clear.
- Buss Cable Limiters are short-circuit devices (unresponsive to light cable overloads) with several types of terminal connections to permit easy mechanical connection to a broad range of cable sizes.
- Totally self-contained, static device.
- Unlike the open link-type limiters, there is no venting of ionized gases or explosive action.
- Has stable, unchanging characteristics.
- High interrupting rating.
- KDM, KDR, KDP and KFM copper cable limiters are UL listed under File E990818. For use at 600Vac on faults up to 200,000A.

Cable Limiters

600 Volt Copper Limiters

K Series

Dimensional Data



Copper Cable Limiter — 600 Volts

Catalog Symbol	Cable Size	Dimensions in Inches										Dimensions in Millimeters									
		A	B	C	D	E	F	G	H	J	A	B	C	D	E	F	G	H	J		
Tubular Terminals (Figure 1)																					
KCY	4 AWG	1.25	2.88	1.06	0.31	0.25	—	—	—	—	31.8	73.0	27.0	7.9	6.4	—	—	—	—		
KCZ	3 AWG	1.25	2.88	1.06	0.34	0.28	—	—	—	—	31.8	73.0	27.0	8.7	7.1	—	—	—	—		
KCA	2 AWG	1.25	2.88	1.06	0.44	0.31	—	—	—	—	31.8	73.0	27.0	11.1	7.9	—	—	—	—		
KCB	1 AWG	1.25	2.88	1.06	0.34	0.34	—	—	—	—	31.8	73.0	27.0	11.9	8.7	—	—	—	—		
KCC	1/0 AWG	1.5	2.625	1.25	0.52	0.39	—	—	—	—	38.1	73.0	31.8	13.1	9.9	—	—	—	—		
††KCD	2/0 AWG	1.63	2.625	1.25	0.44	0.70	—	—	—	—	41.3	73.0	31.8	14.3	11.1	—	—	—	—		
KCE	3/0 AWG	1.63	3.63	1.44	0.61	0.48	—	—	—	—	41.3	92.1	36.5	15.5	12.3	—	—	—	—		
KCF	4/0 AWG	1.75	3.63	1.44	0.34	0.55	—	—	—	—	44.5	92.1	36.5	17.5	14.0	—	—	—	—		
KCH	250 kcmil	1.88	3.63	1.44	0.75	0.28	—	—	—	—	47.6	92.1	36.5	19.0	15.1	—	—	—	—		
††KCJ	350 kcmil	2.0	3.63	1.63	0.88	0.70	—	—	—	—	50.8	92.1	41.3	22.2	17.9	—	—	—	—		
†††KCM	500 kcmil	2.88	3.078	1.88	1.06	0.83	—	—	—	—	73.0	92.1	47.6	27.0	21.0	—	—	—	—		
†††KCR	750 kcmil	3.5	3.75	2.5	1.31	1.06	—	—	—	—	88.9	73.0	63.5	33.3	27.0	—	—	—	—		
KCS	1000 kcmil	5.0	3.75	2.5	1.56	1.22	—	—	—	—	127.0	95.2	63.5	39.7	31.0	—	—	—	—		
Tubular Terminal and Offset Bolt-Type Terminal (Figure 2)																					
KQV	12 AWG	1.25	2.88	1.06	0.19	0.125	3.31	0.72	0.19	1.125	31.8	73.0	27.0	4.8	3.2	84.1	18.3	4.8	28.6		
KQT	10 AWG	1.25	2.88	1.06	0.23	0.14	3.31	0.72	0.19	1.125	31.8	73.0	27.0	6.0	3.6	84.1	18.3	4.8	28.6		
KFZ	8 AWG	1.25	2.88	1.06	0.23	0.16	3.31	0.72	0.19	1.125	31.8	73.0	27.0	6.0	4.0	84.1	18.3	4.8	28.6		
KIG	6 AWG	1.25	2.88	1.06	0.31	0.16	3.31	0.72	0.19	1.125	31.8	73.0	27.0	7.9	4.0	84.1	18.3	4.8	28.6		
KDY	4 AWG	1.25	2.88	1.06	0.31	0.25	3.31	0.72	0.19	1.125	31.8	73.0	27.0	7.9	6.4	84.1	18.3	4.8	28.6		
KDA	2 AWG	1.25	2.88	1.06	0.44	0.31	3.31	0.72	0.19	1.125	31.8	73.0	27.0	11.1	7.9	84.1	18.3	4.8	28.6		
KDB	1 AWG	1.25	2.88	1.06	0.47	0.34	3.31	0.72	0.19	1.125	31.8	73.0	27.0	11.9	8.7	84.1	18.3	4.8	28.6		
KDC	1/0 AWG	1.5	2.625	1.25	0.52	0.39	3.38	0.88	0.25	1.125	38.1	92.1	31.8	13.1	9.9	85.7	22.2	6.4	28.6		
KDD	2/0 AWG	1.63	2.625	1.25	0.56	0.44	3.38	0.88	0.25	1.125	41.3	92.1	31.8	14.3	11.1	85.7	22.2	6.4	28.6		
KDE	3/0 AWG	1.63	3.63	1.44	0.61	0.48	3.38	0.97	0.25	1.125	41.3	92.1	36.5	15.5	12.3	85.7	22.2	6.4	28.6		
KDF	4/0 AWG	1.75	3.63	1.44	0.69	0.55	3.38	0.97	0.25	1.125	44.5	92.1	36.5	17.5	13.9	85.7	22.2	6.4	28.6		
KDH	250 kcmil	1.88	3.63	1.44	0.75	0.28	3.38	0.97	0.25	1.125	47.6	92.1	36.5	19.0	15.1	85.7	24.6	6.4	28.6		
††KDJ	350 kcmil	2.0	3.63	1.63	0.88	0.70	3.38	1.06	0.25	1.125	50.8	92.1	41.3	22.2	17.8	85.7	27.0	6.4	28.6		
†KDM**	500 kcmil	2.88	3.078	1.88	1.06	0.83	3.38	1.19	0.25	1.63	73.0	92.1	47.6	27.0	21.0	85.7	30.2	6.4	41.3		
††KDR**	750 kcmil	3.5	3.75	2.5	1.31	1.06	3.5	1.5	0.25	2.0	88.9	95.2	63.5	33.3	27.0	88.9	38.1	6.4	50.8		
Compression Connector Rod Terminal and Tubular Terminal (Figure 3)																					
KEX	4/0 AWG	2.5	3.63	1.75	1.44	0.69	0.55	0.5	—	—	63.5	92.1	44.5	36.5	17.5	13.9	12.7	—	—		
KFH-A	250 kcmil	2.5	3.63	1.88	1.44	0.75	0.28	0.56	—	—	63.5	92.1	47.6	36.5	19.0	15.1	14.3	—	—		
KQO	350 kcmil	2.5	3.63	2.0	1.63	0.88	0.70	0.81	—	—	63.5	92.1	50.8	41.3	22.2	17.8	20.6	—	—		
††KDT	500 kcmil	2.5	3.078	2.88	1.88	1.06	0.83	0.81	—	—	63.5	92.1	73.0	47.6	27.0	21.0	20.6	—	—		
*Center Bolt-Type Terminal and Offset Bolt-Type Terminal (Figure 4)																					
KPF	4/0 AWG	3.38	3.63	1.44	1.125	1.125	0.97	—	—	—	85.7	92.1	36.5	28.6	28.6	24.6	—	—	—		
KFT	250 kcmil	3.38	3.63	1.44	1.125	1.125	0.97	—	—	—	85.7	92.1	36.5	28.6	28.6	24.6	—	—	—		
KEW	350 kcmil	3.38	3.63	1.63	1.125	0.97	1.06	—	—	—	85.7	92.1	41.3	28.6	28.6	27.0	—	—	—		
KDP**	500 kcmil	3.38	3.078	1.88	1.5	1.63	1.19	—	—	—	85.7	92.1	47.6	38.1	41.3	30.2	—	—	—		
KFM**	750 kcmil	3.5	3.75	2.5	2.0	2.0	1.5	—	—	—	88.9	95.3	63.5	50.8	50.8	38.1	—	—	—		

*Copper or aluminum cable; sizes of all other limiters pertain to copper only.

** UL Listed File E90818, 600V, ac 200,000 A.I.R.

††Available with shrink tube "V" suffix.

†Available with molded rubber boot "B" suffix.

Boot can be purchased separately

•KCM: Part# - _____ Boot-KCM

•KDM: Part# - _____ Boot-KDM

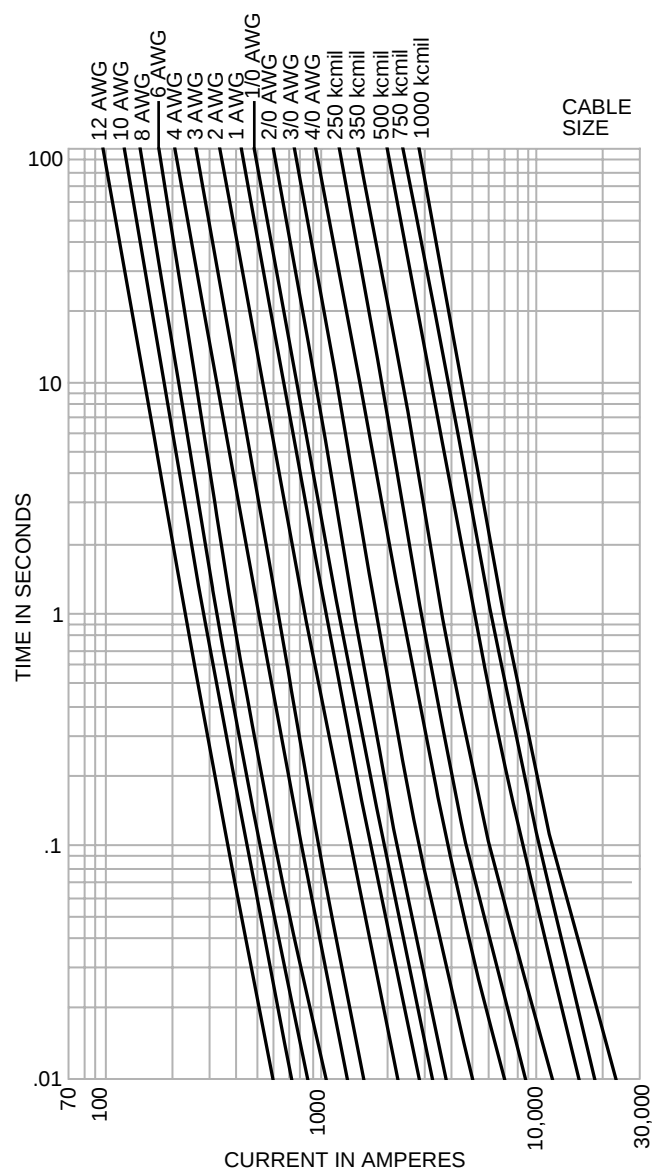
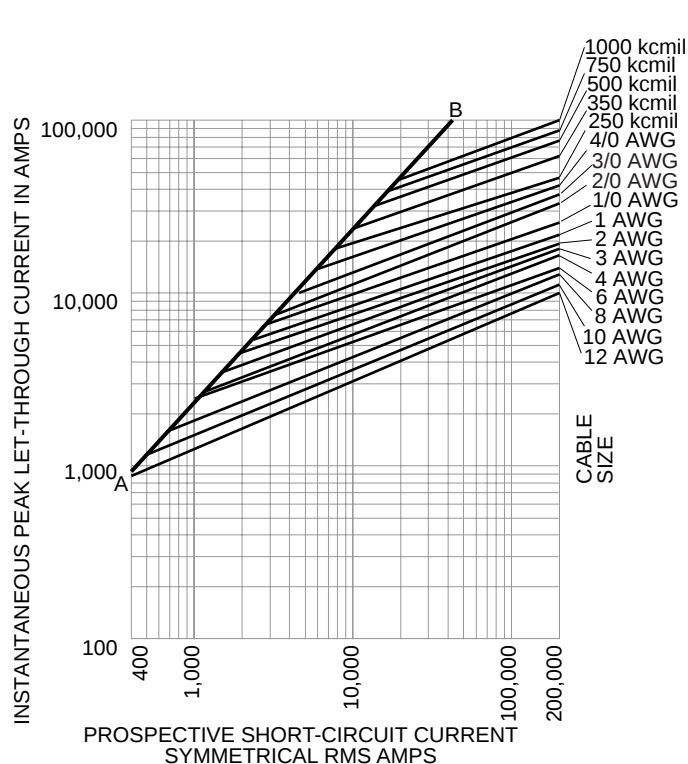
Cable Limiters

600 Volt Copper Limiters

K Series

"K" Type Copper Cable Limiters (600VAC)

Time-Current Characteristics—Total Clear



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