

Cable Limiters

600 Volt Copper Limiters

K Series



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

General Information:

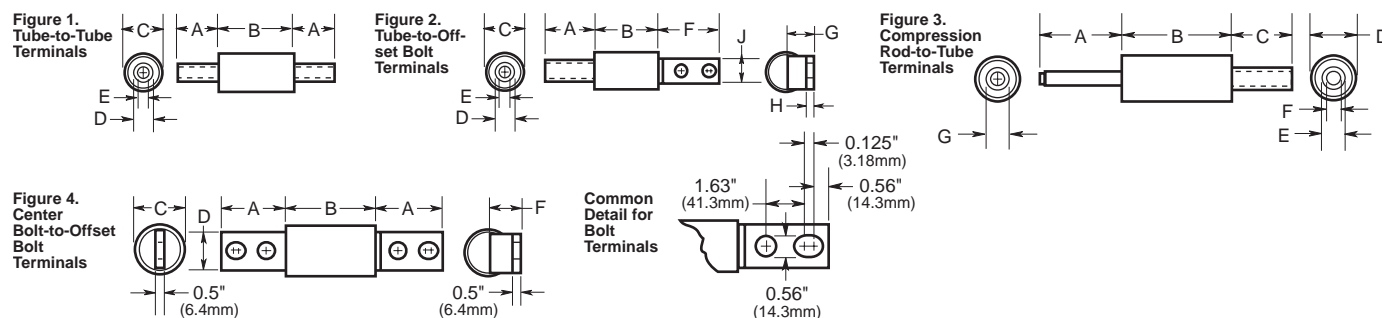
- Selection: unlike fuses, the current-carrying capacity of cable limiters is denoted by cable size rather than amperage.
- For example, a "4/0" limiter will carry the current of a 4/0 cable.
- Buss Cable Limiters help protect cables against short-circuit currents.
- Increase system reliability.
- Under 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, 150,000 amps 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 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.
- Buss Cable Limiters withstand high short-circuit currents.
- Help provide compliance with NEC 110-9 and NEC 230-65.
- KDM, KDR, KDP and KFM copper cable limiters are UL listed under File E990818. For use at 600 V, ac on faults up to 200,000 Amps.

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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 | 1.25 | 2.88 | 1.06 | 0.31 | 0.25 | — | — | — | — | 31.8 | 73.0 | 27.0 | 7.9 | 6.4 | — | — | — | — | | |
| KCZ | #3 | 1.25 | 2.88 | 1.06 | 0.34 | 0.28 | — | — | — | — | 31.8 | 73.0 | 27.0 | 8.7 | 7.1 | — | — | — | — | | |
| KCA | #2 | 1.25 | 2.88 | 1.06 | 0.44 | 0.31 | — | — | — | — | 31.8 | 73.0 | 27.0 | 11.1 | 7.9 | — | — | — | — | | |
| KCB | #1 | 1.25 | 2.88 | 1.06 | 0.34 | 0.34 | — | — | — | — | 31.8 | 73.0 | 27.0 | 11.9 | 8.7 | — | — | — | — | | |
| KCC | 1/0 | 1.5 | 2.625 | 1.25 | 0.52 | 0.39 | — | — | — | — | 38.1 | 73.0 | 31.8 | 13.1 | 9.9 | — | — | — | — | | |
| KCD | 2/0 | 1.63 | 2.625 | 1.25 | 0.44 | 0.70 | — | — | — | — | 41.3 | 73.0 | 31.8 | 14.3 | 11.1 | — | — | — | — | | |
| KCE | 3/0 | 1.63 | 3.63 | 1.44 | 0.61 | 0.48 | — | — | — | — | 41.3 | 92.1 | 36.5 | 15.5 | 12.3 | — | — | — | — | | |
| KCF | 4/0 | 1.75 | 3.63 | 1.44 | 0.34 | 0.55 | — | — | — | — | 44.5 | 92.1 | 36.5 | 17.5 | 14.0 | — | — | — | — | | |
| KCH | 250 MCM | 1.88 | 3.63 | 1.44 | 0.75 | 0.28 | — | — | — | — | 47.6 | 92.1 | 36.5 | 19.0 | 15.1 | — | — | — | — | | |
| KCJ | 350 MCM | 2.0 | 3.63 | 1.63 | 0.88 | 0.70 | — | — | — | — | 50.8 | 92.1 | 41.3 | 22.2 | 17.9 | — | — | — | — | | |
| †KCM | 500 MCM | 2.88 | 3.078 | 1.88 | 1.06 | 0.83 | — | — | — | — | 73.0 | 92.1 | 47.6 | 27.0 | 21.0 | — | — | — | — | | |
| KCR | 750 MCM | 3.5 | 3.75 | 2.5 | 1.31 | 1.06 | — | — | — | — | 88.9 | 73.0 | 63.5 | 33.3 | 27.0 | — | — | — | — | | |
| KCS | 1000 MCM | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 MCM | 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 MCM | 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 MCM | 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 MCM | 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 | 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 MCM | 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 MCM | 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 MCM | 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 | 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 MCM | 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 MCM | 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 MCM | 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 MCM | 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.

†Available with molded rubber boot "B".

-V suffix - Heat shrink tube available on several Part Nos.

** UL Listed File E90818, 600V, ac 200,000 AIC