

ULTRASAFE™ FUSE HOLDERS FOR STRING COMBINER BOX APPLICATIONS

Mersen's line of UltraSafe fuse holders deliver the function, safety and level of circuit protection demanded by PV applications. Designed with enhanced materials and insulation properties providing the level of reliability and system longevity needed for high ambient conditions commonly seen at PV sites. The touch-safe design and tool-free fuse change-outs increase user safety. The unique spring terminal option is immune to vibration, corrosion and temperature making it the ideal choice for PV installation. Combine with Mersen's HelioProtection HP6M or HP10M fuses for industry leading PV circuit protection.



CATALOG NUMBERS AND ELECTRICAL CHARACTERISTICS

| FOR USE WITH | VOLTAGE (VDC) | AMPERAGE (A) | TERMINAL TYPE | VISUAL BLOWN FUSE INDICATOR | CATALOG NUMBER | REFERENCE NUMBER |
|------------------|---------------|--------------|---------------|-----------------------------|----------------|------------------|
| Midget (10x38mm) | 1000 | 32 max | Screw | No | USM1HEL | L1028363 |
| | | | | Yes | USM1IHEL | M1028364 |
| Midget (10x38mm) | 1000 | 32 max | Spring* | No | USGM1HEL | P1022294 |
| | | | | Yes | USGM1IHEL | N1022293 |

ADDITIONAL SPECIFICATIONS

- **Connector Type:** Screw or CAGE CLAMP® spring
- **Suggested Screw Torque:** 14.75 in-lbs
- **Wire Range**
: 14 to 6 AWG (2.5 to 16mm²) single conductor
: 14 to 10 AWG (2.5 to 5mm²) dual conductor
- **Wire Type:** 60/75/90°C solid/stranded copper
- **Load Break Disconnect:** No
- **Max Power Losses:** 3W
- **Blown Fuse Indicator Operating Voltage:** 350-1000VDC
- **Flammability:** UL94V0
- **Recommended Fuse Usage:** HP6M and HP10M

* SPRING TERMINAL TECHNOLOGY

Wire surrounded on all four sides



Wire retention spring reinforces high contact pressure

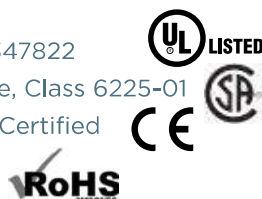
"S" bend provides defined contact area

HIGHER RELIABILITY

- Immune to vibration, corrosion and temperature
- Maintenance-free, eliminates the need to re-torque
- Superior connection every time independent of operator skill

APPROVALS:

- UL Listed to 4248-18, File E347822
- CSA Component Acceptance, Class 6225-01
- IEC 60269-2-1 and 60947-3 Certified
- RoHS Compliant



INCREASED EASE-OF-USE

- No tools required for installation or maintenance

LOWER TOTAL SYSTEM COST

- Reduce installation time by 75%

ACCESSORIES - USBB SERIES COMB BUS BAR (FOR USE WITH SCREW TYPE ONLY)

| VOLTAGE (VDC) | AMPERAGE (A) | PHASE | POLES | CATALOG NUMBER | CROSS SECTION | PITCH | MATERIAL |
|---------------|-------------------------------------|-------|-------|----------------|-------------------|--------|----------|
| 1000 | 100 [End Feed] 200 [Center Feed] | 1 | 4 | USBB1PH25K4 | 25mm ² | 17.8mm | Copper |
| | | | 6 | USBB1PH25K6 | | | |
| | | | 8 | USBB1PH25K8 | | | |
| | | | 12 | USBB1PH25K12 | | | |

POWER FEEDER TERMINAL

| VOLTAGE (VDC) | AMPERAGE (A) | PHASE | WIRE RANGE | CATALOG NUMBER |
|---------------|--------------|-------|--------------|----------------|
| 1000 | 115 | 1 | 10 - 1/0 AWG | USBBC1 |
| | | | 14 - 1 AWG | USBBSB1 |