

HW SERIES SURGE PROTECTORS

ELECTRICAL SPECIFICATIONS

MAXIMUM REPETITIVE SELF RESET SURGE:
3500 Volts, 1750 Amps for 100 pulses using 2 V source.
per: EN61000-4-5 Specification (all lines common mode).

***MAXIMUM FAIL SAFE SURGE (all lines common mode):**
4000 Volts 2000 Amps for 100 pulses using 2V source.
per EN61000-4-5 Specification. Exceeds EN6100-4-5, level 4.

CLAMPING VOLTAGES:
Common Mode - Line to line.
Differential Mode - Line to ground.

***CAPACITANCE:**
Line/line: <40pF.
Line/Ground: <40pF.

COMPONENT RESPONSE TIME:
Less than 10 Nanoseconds.

OPERATING TEMPERATURE:
(-40°C TO +85°C).

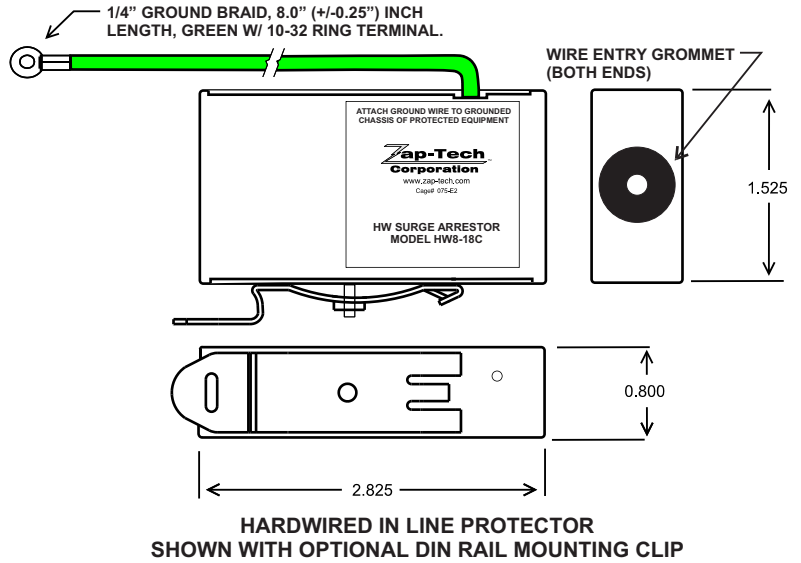
*Applies to all devices except 62V and 260V.

PART NUMBER SELECTION: FORMAT: HW4-18C

HW(# of wires)-(clamp voltage)(C for optional DIN Clip)

| APPLICATION | MODEL | MAX OPERATING VOLTAGE | CLAMP VOLTAGE |
|---|-----------|-----------------------|---------------|
| RS422, RS423, | HW()-7 | 5.5V | 7V |
| RS232, RS485 DIGITAL CURRENT LOOP | HW()-18 | 16.0V | 18V |
| ANALOG CURRENT LOOP | HW()-27 | 25.5V | 27V |
| LEASED LINE, ISDN, T-1, DDS | HW()-62 | 60.0V | 62V |
| DIAL UP, POTS LINE | HW()-260 | 250V | 260V |

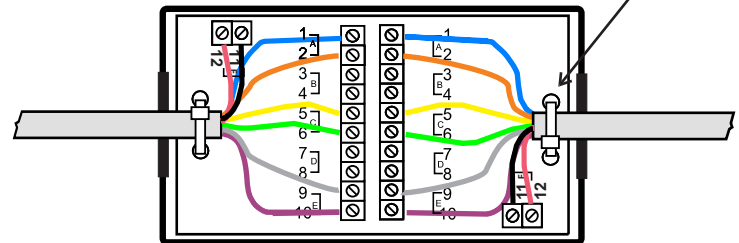
MECHANICAL SPECIFICATIONS



INSTALLATION

Just splice the HW series unit in line with your existing cable.

STRAIN RELIEF ZIP TIES (BOTH ENDS)



UNIT WITH COVER REMOVED
TO SHOW WIRE INSTALLATION

PROTECTION PAIRING ASSIGNMENTS:

PAIR A: 1,2
PAIR B: 3,4
PAIR C: 5,6
PAIR D: 7,8
PAIR E: 9,10
PAIR F: 11,12

Custom Surge protection is our specialty. Custom versions are available including mixed or special voltages, different connectors or wiring options. Contact us for details.

OPERATION:

The Zap-Tech protector will repetitively protect and reset without degradation up to its maximum repetitive self-reset surge. If it is subjected to more than its maximum repetitive self-reset surge, the device will remain in a clamped mode indicating that it should be removed or replaced while keeping the equipment safe from subsequent surges.

INSTALLATION:

Zap-Tech protectors should be installed in series with the incoming communication line at the port of the equipment being protected. The protector's grounding wire must be connected to the chassis ground of the protected equipment.

IMPORTANT!

It is important that the protector and the chassis of the equipment to be protected are both properly grounded to a properly earthed electrical safety ground via the equipment's 3-prong power cord and/or a ground wire of 14 AWG or larger. Protectors should be installed at both ends of communication lines to ensure equipment protection at each end.

All specifications are subject to change without notice.

Detailed specifications for specific versions available on request.

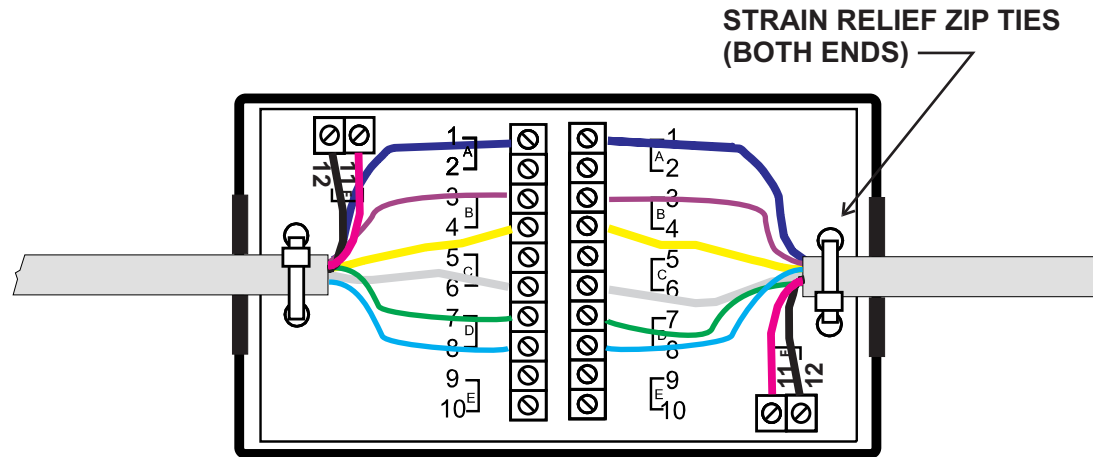
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INSTALLATION:

1. Pry open cover of protector.
2. Feed cable through holes in end plates
3. Terminate pairs to terminal block as per pairing diagram below.
4. Tighten strain relief zip ties for each cable.
5. Replace cover onto protector, note orientation of ground wire hole in cover.
6. Connect green/yellow grounding wire to properly grounded equipment chassis ground or facility earth ground.



PROTECTOR TERMINAL TO ACUTIME PIN AND WIRE COLOR:

TERMINAL 1 TO ACUTIME PIN 2 VIOLET
TERMINAL 2 TO ACUTIME PIN 3 ORANGE
TERMINAL 3 TO ACUTIME PIN 4 BROWN
TERMINAL 4 TO ACUTIME PIN 5 YELLOW
TERMINAL 5 TO ACUTIME PIN 6 WHITE
TERMINAL 6 TO ACUTIME PIN 7 GRAY
TERMINAL 7 TO ACUTIME PIN 8 GREEN
TERMINAL 8 TO ACUTIME PIN 10 BLUE
TERMINAL 9 TO ACUTIME PIN 11 ORANGE W/ WHITE STRIPE
TERMINAL 10 TO ACUTIME PIN 11 BLACK W/ WHITE STRIPE
TERMINAL 11 TO ACUTIME PIN 1 RED
TERMINAL 12 TO ACUTIME PIN 9 BLACK

UNIT WITH COVER REMOVED TO SHOW WIRE INSTALLATION

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TITLE: INSTALLATION
HW SERIES SURGE ARRESTOR

PART NUMBER

40-422-120

REV