Fast Facts

MIL-DTL-38999 SERIES III SCREEN TRAP™ BACKSHELLS

Originally designed, and proven by TT electronics New Chapel Electronics, the trademarked 'Screen Trap' backshell is now adapted for use with all MIL-DTL-38999 Series III connectors. The concept is contained in patents, GB2427079B, GB2427080B, GB2427081B and subject of other patent applications.

This series of adapters provides a simplified method of grounding over all shields. The shield/braid is secured between a male and female thread providing a good bonding joint. No additional tooling is required to terminate Screen TrapTM backshells.

Simple but effective EMI/RFI and environmental protection.

Market Segments

- Adoption in high reliability applications including traditional applications associated with MIL-DTL-38999 Series III connectors

Applications

- Defence
  - Surveillance systems
  - Thermal imaging
- Aerospace
  - Fixed wing
  - Rotary wing
  - Landing gear
  - Missile systems

Features

- No tooling required for assembly
- Grounded backshell, shield termination, environmental sealing and mechanical strain relief
- Tested to the American Specification AS85049 for connector backshells
- Base materials & finishes
  - Aluminium Cad, Electroless Nickel, Nickel PTFE, Zinc Cobalt
  - Passivated Stainless Steel (not in AS85049)

Our advantage

- All Screen Trap™ adaptors are capable of terminating single, double or optimised screens thereby making the Screen-Trap™ ideal where RFI, EMI, EMP, Tempest or HIRF conditions apply.
- Not widely promoted by competition that may prefer to offer more their own designs, ie Constant Force Springs, Tinel Ring, Banding Style
- Lower material cost than Banding Style termination
- Fast termination and therefore lower installation cost than other technologies
- Ease of repair