

# Military Overmold Solutions

Standard & Configurable Overmold Solutions



## Product Description

Winchester Interconnect™ is a leader in cable manufacturing and cable assembly design, developing integral and critical solutions in your end products. Winchester's unique engineering and overmold solutions provide unprecedented value to our customers when they face complex design, reliability, or time to market constraints.

## Features

- **Environmentally Sealed Cable Assemblies**  
IP67-rated assemblies provide reliable operation in harsh conditions
- **Highest Value at Lowest Lead Times**  
Minimal tooling costs and fabrication lead time
- **Modern Polyurethane Jackets**  
Provides excellent abrasion, fluid, chemical and fungal resistance
- **FEP and TPE Insulated Primaries**  
For maximum versatility in construction choices to meet both mechanical and electrical requirements
- **Wide Variety of Shielding Options**  
Provides for optimized EMI/RFI performance to meet MIL-STD-461/464
- **Finely Stranded Conductors**  
For highly flexible cables and longer useable cable life
- **Wide -55°C to + 105°C Temperature Range**  
Meets majority of ground based military mission parameters  
200°C temperature range in specialized applications
- **Wide Use of 3D Modeling and 3D Print Technologies**  
Provides rapid prototype development of unique designs



## Applications

- Aerostat
- Drones
- Ground Based Radar Systems
- Military Ground Vehicles
- Military Radios
- Mobile Communication Systems
- Ruggedized Networking
- Tactical Communications
- Weapon Systems

## Custom Overmolding Solutions

- Wide Variety of Molding Material Including:**  
 Elastomers (Elastomers) – Neoprene, Nitrile, HNBR, Viton, EPDM, Silicone, and Aflas  
 Thermoplastics (Polyurethanes) – Estane and Estaloc  
 GRE (Glass Reinforced Epoxy)
- Mil-Grade USB, Megabit and Gigabit Ethernet Cables**  
 Supports most communication protocols designed into military equipment
- Straight and Coil Cord Cable Assembly Versions**  
 Maximizes system implementation options
- Existing Straight, Right Angle and 45 Degree Molds for Most Popular Mil-Round Connector Families in All Sizes**  
 Allows use of 38999 SI/SII/SIII/SIV, 26482 SI/SII, mini 38999 (Mighty Mouse), and 5015 threaded & bayonet plugs and receptacles
- Wide Variety of Existing Multi-Conductor Constructions Available**  
 Removes initial minimum quantities and reduces cable assembly lead-times
- Large Database of Common Core Components**  
 Allows quick response to price and delivery requests
- Winchester Custom Backshell Adapters**  
 Provides ideal combination of electrical and mechanical performance with the smallest, most attractive appearance



## Certifications

<b>AS9100</b>	Aerospace Quality Management System
<b>AS7003</b>	National Aerospace & Defense Contractors Accreditation Program
<b>ISO 13485</b>	Medical Device Quality Management System
<b>IPC/WHMA-A-620 (Class 3)</b>	Requirements & Acceptance Standards for Cable & Wire Harness Assemblies
<b>ISO 9001</b>	Quality Management System
<b>OHSAS 18001</b>	Occupational Health & Safety
<b>ISO 14001</b>	Environmental Management System

