

## Industrial Cable Assembly Solutions



Overmolding



Overbraiding



Potting



Coil Cords

### INTRODUCTION

Amphenol CIT continues to set the standard for harsh environment interconnect and value-added assembly solutions. With our vast capabilities and manufacturing strength, Amphenol CIT is able to meet your cable assembly and wire harnessing needs, including overmolding of backshells, connectors or cable assembly junctions.

### MATERIALS & PROCESS

- » Our in-house **overmolding** capabilities protect your connector backshell and improve assembly resilience and durability
- » **Overbraiding** allows the wire harness to be routed directly through hot zones, shortening the overall harness length
- » **Potting** increases resistance to shock and vibration
- » **Epoxy** helps protect against abrasion, corrosion and other environmental stressors
- » T, X and Y junctions allow the end-user flexibility to assemble the harness in multiple configurations
- » Temperature resistance up to 260°C
- » PTFE, ETFE, FEP, etc. high temperature wire integration

### ADVANTAGES

- » One source for the final assembly saves time and cost
- » Ultra-high temperature, vibration and ruggedized applications
- » Quick-turn prototyping
- » Full continuity testing
- » Strain-relief: Enhanced robustness of the assembly while protecting the tension placed on the back of the connector - no adverse effects to continuity or signal
- » Low Cost Region (LCR) sourcing available
- » Vendor Managed Inventory (VMI) available
- » ISO90001, ISO14001 and ISO13485 certified

### TYPICAL APPLICATIONS

- » Oil & Gas: downhole tools, seismic data acquisition, exploration support equipment
- » Heavy Equipment: vehicle controls, near engine, under valve cover, glow plug assemblies
- » Rail Mass Transit: vehicle controls, power and signal applications
- » Factory Automation: conveyor systems, robotics, laser applications