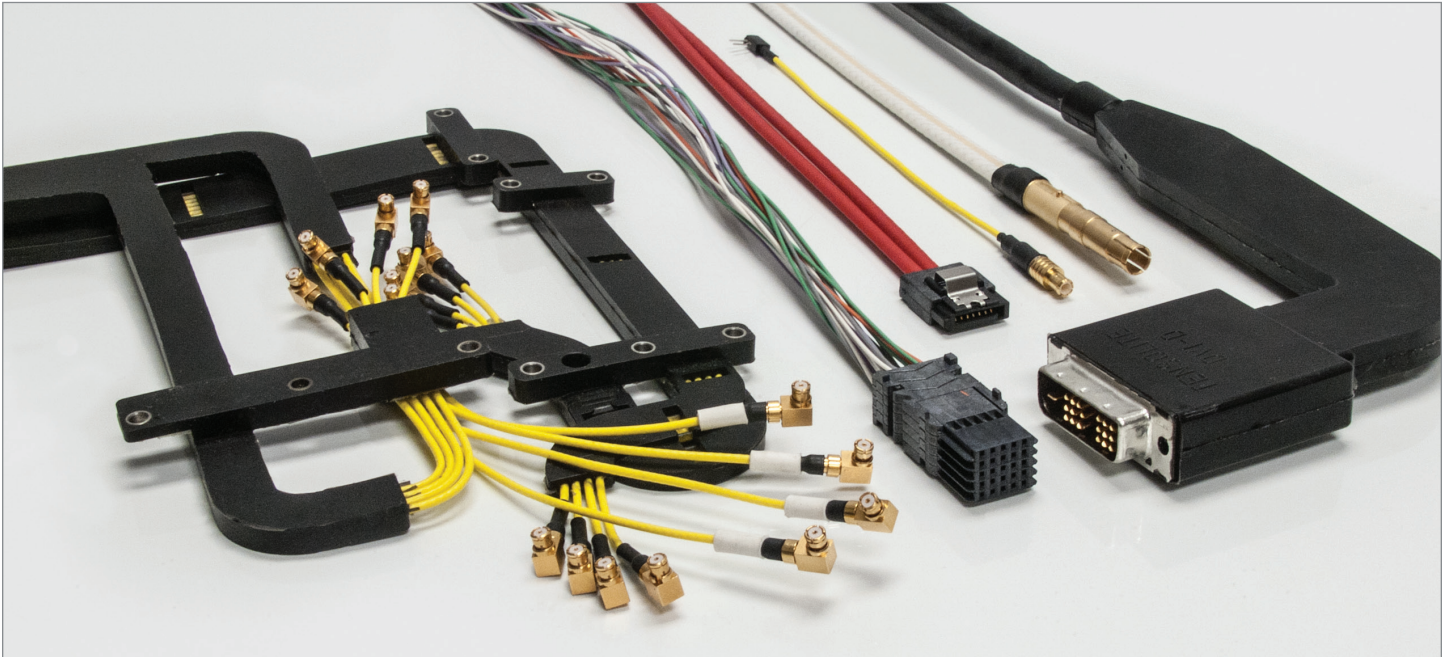# Engineered Custom Assemblies

INTRODUCTION

Carlisle Interconnect Technologies (CarlisleIT), by virtue of vertical integration, can provide assembly solutions encompassing every facet of design and production. CarlisleIT understands every assembly is unique, with complex designs, multiple terminations, and specialized connector configurations. Our in-house engineering expertise and quick-turn prototype capabilities keep us at the forefront of interconnection technology. CarlisleIT's assemblies deliver outstanding mechanical and electrical performance, while preserving signal integrity.

BENEFITS

» Engineered custom solutions
» In-house test capabilities:
  – Time domain matching <5 ps
  – DC measurements through resistances as low as .01 Ω, Insulation Resistance to 500 MΩ and Hi-Pot to 1000 VDC
  – Vibration/shock testing
» AS9100-certified quality systems
» Soldering certified to J Standards
» Quick turn-around times for custom design
» IPC 620 Class 1, 2 and 3, including space addendum

CAPABILITIES

» High-density assemblies include mixed signal, DVI, Ethernet, 150 Ω Fiber Channel, high-speed data, power, complex breakout assemblies, RF/Microwave assemblies, and custom cable harnesses
» Combinations of single, multi-wire, twinax, shielded twisted pair, or coaxial cables
» Termination of all common and specialized contacts and connectors
» Wire and material management
» Overmolding and injection molding
» Time matching for delay skew to maximize signal integrity
» Fine pitch termination
» Custom housing design with sealed and low profile options
» Common interconnects include, Mil Circular/38999, HM/HDM, SMP/SSMP, DVI/DVI-I, Twinax, Quadrax, Serial ATA, USB, and RJ45/Ruggedized RJ45
» Automated test capabilities for serial production runs
» 2D or 3D form boards for complex assembly and critical fit applications
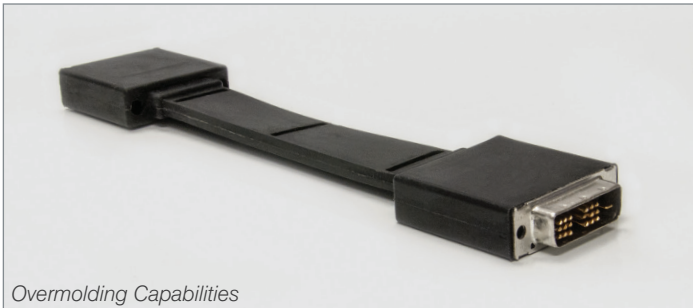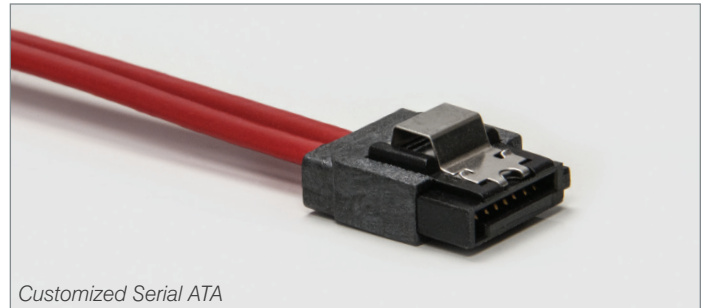
Engineered Custom Assemblies

CAPABILITIES

Right-Angle Overmolding

Custom Backshell Capabilities

Overmolding Capabilities

Customized Serial ATA

Custom Coax, Twinax & Quadrax Jumpers

Assemblies with Stackable Wafers

Custom Cable Management Assemblies

CARLISLE
INTERCONNECT TECHNOLOGIES

See CarlisleIT's line of Cable Assemblies & Harnesses at:
CarlisleIT.com/products/cable-assemblies-harnesses

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