STL™ innovative solution
For interference fit application in all materials
Lightning Strike Protection and high fatigue performances ensured by... STL™ solution

Description

The SLEEVE TAPER-HI-LITE™ fastener has been developed for new generation aircraft structure assemblies in restricted access areas. The STL™ system provides high level mechanical performances and allows for interference fit without causing damage in the composite structure while addressing lightning protection.

Controlled radial expansion

Clearance pre-installed into the assembly with its fully compatible STR™ nut, the conical core bolt of the STL™ fastener expands the sleeve radially into the hole. This one sided installation process relieves designers from accessibility constraints and simplifies assembling process. Installed into a standard cylindrical hole, the STL™ fastener provides flexible interference fit levels to suit any application whatever the stack material. Validated for lightning strike protection, the STL™ system provides safety and high fatigue performances to all aircraft structure material types.

Key features & benefits of STL™ system

- Designed for highest static and fatigue performance in composite, metallic or hybrid structures.
- Tightly controlled radial expansion provides lightning strike protection, better electrical conductivity and avoids composite delamination.
- Extended 1/32” overlap capability to accommodate thickness variations, combined with two oversizes for repairs using same assembly process.
- Environmental friendly thanks to HI-KOTE™ NC coatings.
- Standard cylindrical straight hole preparation with unique dimension per pin diameter code.
- Ergonomic single step and one-sided robust installation owing to the ASTER™ Hold & Drive System which provides maximum torque control.
- Diameter from 3/16” to 1” 1/8 available in Titanium and Inconel versions.
- Secured installation using torque controlled tools with optimized Ti nuts STR60 and STR80 developed specifically for STL™ fastener.
- Complete tooling collection and full documentation support: Standards, Technical Specifications, Tooling, Control Gages, and Procedures.

For information on STL™ solution and tooling, please contact us at: STL@lisi-aerospace.com

Visit our LISI AEROSPACE Website on: www.lisi-aerospace.com