

HexaShield High-Performance EMC/EMI Adapters Compact, Lightweight, High-Performance Adapters

AEROSPACE, DEFENSE & MARINE /// HexaShield High-Performance EMC/EMI Adapters

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Compact, Lightweight, High-Performance Adapters



OUTSTANDING PERFORMANCE

- Up to four shielded cables accommodated by each ferrule
- Easy reentry: To insert or remove ferrules from the HexaShield adapter, simply loosen the back nut
- Strain relief on each individual cable

RUGGED

- Superior protection: No degradation of shielding performance
- Mechanical and environmental protection equal to backshells complying with MIL-C-85049 Category 3B

VERSATILE

• Available in straight, 45° and 90° angles, as well as swept and long bodies

COMPACT/LIGHTWEIGHT

- Compact size not exceeding outer diameter of connector
- Weight reduction, by possibly eliminating the need for overall shielding

MARKETS

- Commercial Aircraft
- Military Aircraft
- Missiles and Launch Support
- Ground Defense
- Military Marine

TE, a longtime leader in harnessing technology, has written a new chapter in EMC shielding with the introduction of the Raychem brand HexaShield EMC adapter.

Designed to provide EMC protection solutions for both commercial and military applications, HexaShield adapters represent a significant improvement over pigtail termination methods. By providing 360-degree EMC shielding on the termination area of each individual cable, HexaShield adapters provide outstanding shielding effectiveness.

HexaShield adapters are simple to install, easy to maintain, and dependably resistant to mechanical and environmental stresses.

Simple Assembly and Installation

- 1. Solder cable or wire shield to a ferrule with a heat-shrinkable SolderShield terminator.
- 2. Clip ferrule into one of the grounding star cavities.
- 3. Secure the back nut of the HexaShield adapter so that the conic ring assembly automatically compresses the ferrules.

Two Platings AvailableTE Product SpecificationsElectroless nickel (MIL-DTL-26074)RB-110 and RB-114Olive drab cadmium
(QQ-P-416 Type II Class 3)–

Designed to Corresponding Connector Specifications

* Contact TE for additional platings.

Installation Procedures

Installation procedure for HET-A-02X and HET-A-04X (RPIP-696-00)	Installation procedure for HET-03X (RPIP-696-03)	General procedure for cylindrical connectors, right-angle body (RPIP-696-07)
General procedure for ARINC 600 Size II connectors (RPIP-696-01)	General procedure for cylindrical connectors, straight body (RPIP-696-04)	_
General procedure for ARINC 600 Size II connectors (RPIP-696-02)	_	_
RPIP-696-13 HexaShield Filling Factors	_	_

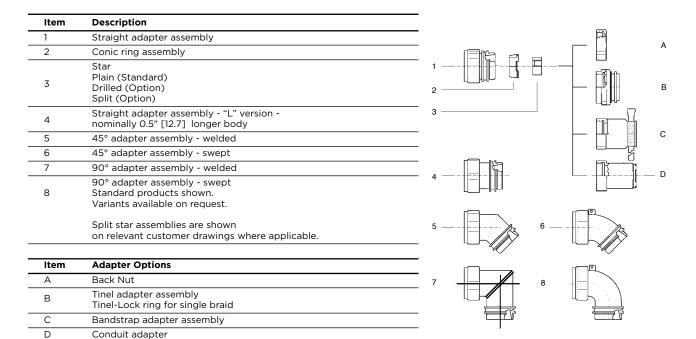
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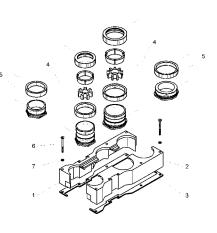
Kit Descriptions

HexaShield Adapters for Circular Connectors: Straight, 45° and 90° Assemblies



HexaShield Adapters for ARINC 404/600 Connectors: Sizes 1, 2, 3 and 4 Assemblies

Item	Description
1	Left side support
2	Right side support
3	Retention bars
4	Body assemblies Body Holding nut Conic ring assembly Star _ Back nut
5	Cavity plug assemblies Plug Holding nut
6	Pan head screws - 4-40 UNC
7	Spring washers

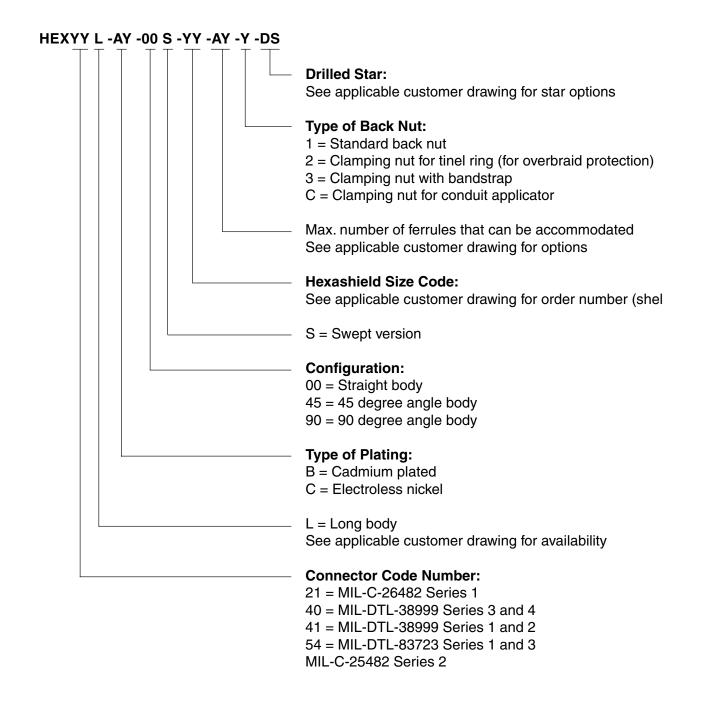


ARINC 600 Size 2 shown Stars are available as plain, drilled or split. See relevant customer drawings for further information



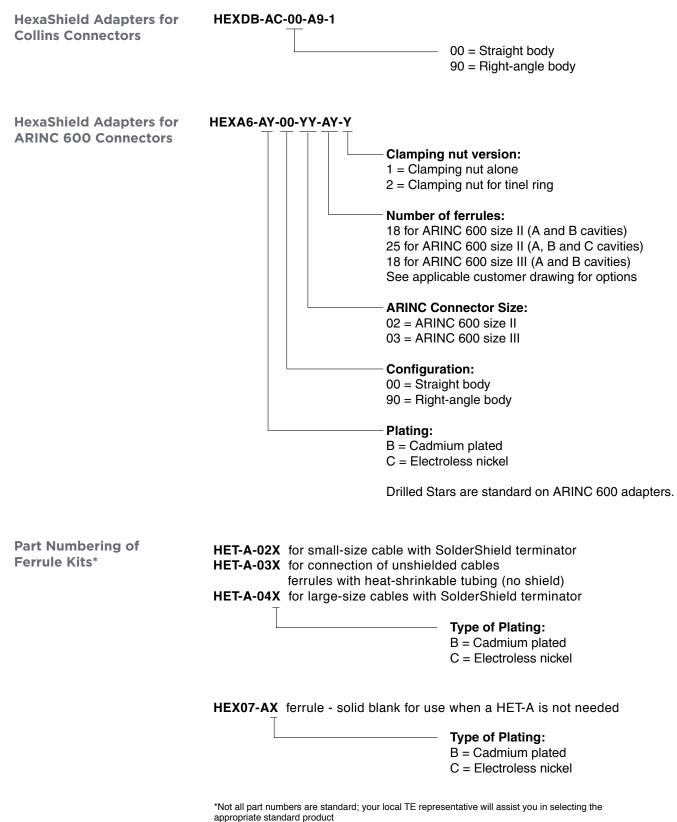
Ordering Information: Part Numbering for Standard Products

HexaShield Adapters for Circular Connectors





Ordering Information (Continued)



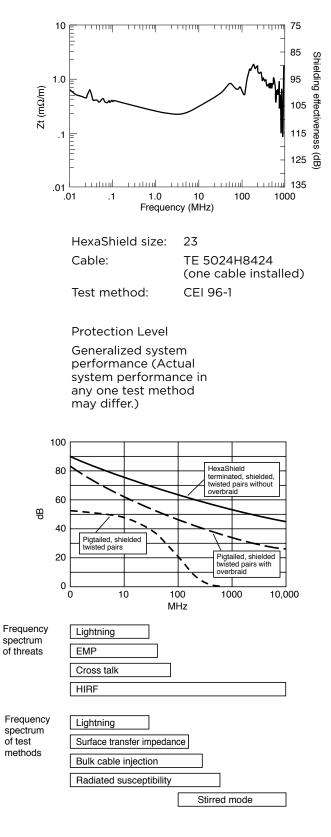


EMC Performance

Transfer Impedance

Product Facts

- Outperforms traditional pigtail termination, especially in HIRF performance
- Withstands 10-kA peak current lightning transients of SAE AE4L-87-3





EMC Performance (Continued)

Typical HexaShield	Civilian and military aircraft	
Applications	Avionics	
	Fighter aircraft	
	Missiles and launch support systems	
	Armored and military support vehicles	
	Navy ships (total shipboard hardening)	
	Military communications	
	Engines (FADEC harness hardening)	
HexaShield Product	Accommodates the following connector types*:	
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Range	MIL-C-26482 Series 1	
-	MIL-DTL-38999 Series 1, 2, 3, and 4	
	MIL-C-26482 Series 2	
	MIL-DTL-83723 Series 1 and 3	
	DBAD	
	ARINC 600	
	ARINC 404	

*Please contact TE for other connector types and special requests.





Individual cable braid terminations offering multiple connector pin repairs with zero pig-tail length for superior EMC performance, without the need for gross over-braid.

HexaShield F provides the following advantages:

- Installation ease reduces shield termination labor cost
- Ease of maintenance and repair allows performance of normal connector contact repairs, addition or change of a cable multiple times
- Small size and lightweight
- Sound mechanical performances of termination
- Provides strain relief on individual cables
- Better shielding performance of termination
- Available in various star sizes and platings (TE FLX40 series drawings. Contact TE for detailed information)

Applications

HexaShield F termination system is especially useful for high-speed quadrax cable (IEEE 1394) applications.

Product Facts

- Maintains electrical integrity while connecting controlled electrical cables to mil-spec connectors
- Flexible and versatile design fits most mil-spec connectors, shielded signal wires, and ARINC connectors
- Zero pigtail length braid termination
- Modular cable termination using ferrules, SolderSleeve devices, stars, and braid allows for repeated cable segment repairability
- Stars for ferrules with band strap (Tinel-Lock ring can be available) allows for easy re-entry for repair and replacement while providing a secure attachment
- Various ferrule count and star positions with optional plugs available to accommodate various cables and plugs

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit te.com to chat with a Product Information Specialist.

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Consult TE for the latest dimensions and design specifications.

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