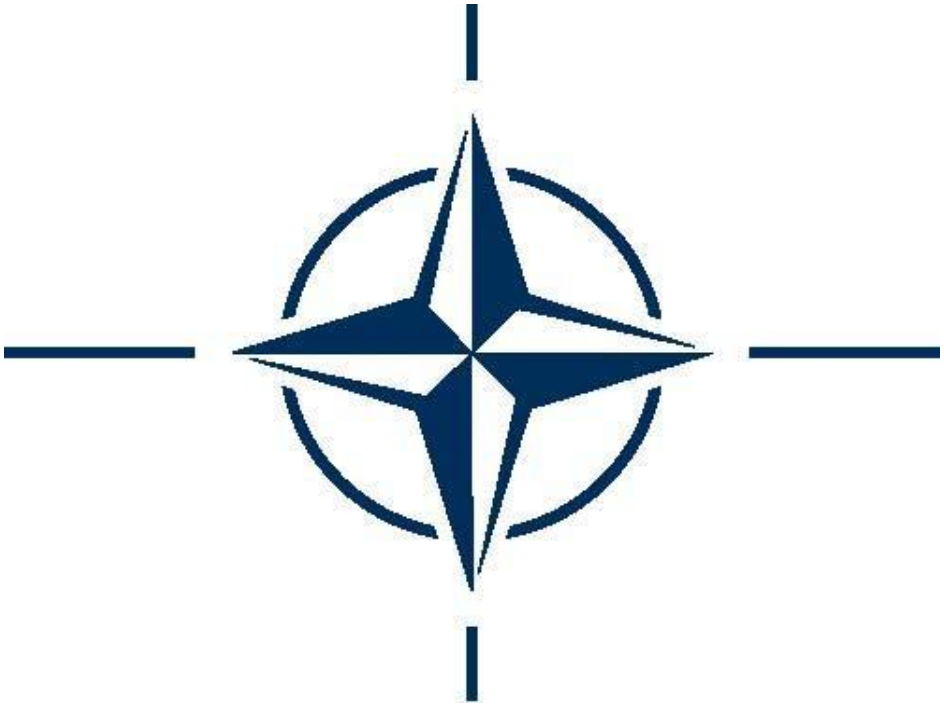
NATO STANDARD

AEP-100

ELECTRICAL CONNECTOR FOR DISPENSERS AND INTERNAL INTERVALOMETER TYPE ROCKET LAUNCHERS FOR AIRCRAFT

Edition A Version 1

OCTOBER 2016



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NATO LETTER OF PROMULGATION

21 October 2016

1. The enclosed Allied Engineering Publication AEP-100, Edition A, Version 1, ELECTRICAL CONNECTOR FOR DISPENSERS AND INTERNAL INTERVALOMETER TYPE ROCKET LAUNCHERS FOR AIRCRAFT, which has been approved by the nations in the AC/224 – NATO AIR FORCE ARMAMENTS GROUP, is promulgated herewith. The agreement of nations to use this publication is recorded in STANAG 3576.

2. AEP-100, Edition A, Version 1, is effective upon receipt.

3.

4. This publication shall be handled in accordance with C-M(2002)60.

Edvardas MAŽEIKIS
Major General, LTUAF
Director, NATO Standardization Office

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RECORD OF RESERVATIONS

CHAPTER	RECORD OF RESERVATION BY NATIONS
Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.	

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RECORD OF SPECIFIC RESERVATIONS

[nation]	[detail of reservation]
Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.	

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CHAPTER 1 INTRODUCTION

1.1. REFERENCES

1.1.1. Related Documents

1. STANAG 3558 AA - Locations of Electrical Connectors for Aircraft Stores

2. SAE AS50151C - Connectors, Electrical, Circular Threaded, AN Type, General Specification

3. MIL-STD-1760 - Interface Standard for Aircraft/Store Electrical Interconnection System

1.2. PURPOSE

The purpose of this standard is to improve operational interoperability by establishing a common electrical interface for future dispenser and internal intervalometer type rocket launchers for aircraft.

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CHAPTER 2 ELECTRICAL CONNECTORS FOR DISPENSERS AND INTERNAL INTERVALOMETER TYPE ROCKET LAUNCHERS - SPECIFIC DETAILS

2.1. STANDARD

The standard for electrical connectors for dispensers and internal intervalometer type rocket launchers is as follows:

a. The electrical control connector will conform to the latest issue of SAE AS501551C equivalent to standard connector part MS3452W 14s-5P (NSN 5935-01-260-9641), or will be a compatible alternative.

b. Contact Pins Shall Perform the Following Function:

(1) Contact Pin A: 28 V DC Firing Power (Positive)

(2) Contact Pin B: NOT FOR USE

(3) Contact Pin C: INTERLOCK

(4) Contact Pin D: INTERLOCK RETURN

(5) Contact Pin E: 28 V DC RETURN/GROUND (Negative return for rocket round)

c. The orientation of the electrical connector keyway shall be forwarded along the longitudinal axis of the launcher.

d. The height of the connector from the top of the launcher skin to the top of the electrical connector shall be 0.551 + 0.1 - 0.551 inches (14 + 2.5 - 14 mm)

e. Where devices are required to protect launcher internal components or to modify the power input in any way, these devices shall be incorporated within internal structures of the launchers.

f. The position of the connector shall be in accordance with STANAG 3558.

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