



HMN-HD3-10 Insert Series

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1. INTRODUCTION

This specification contains the regulations for assembly of HMN-HD3-10-M/F contact inserts and the handling of these inserts.

2. SUPPORTING DOCUMENTS

2.1. Customer drawings

Please refer to the customer drawings of HMN-HD3-10-M/F insert series.

2.2. Product specification

The product specifications of the used articles are to be taken into account. The product specification describes the technical data as e.g. regulations, approvals, temperature range and rated voltage.

For further reference refer Product spec 108-140158.

2.3. Application Specification

Connectors shall be assembled as below mentioned application specifications to ensure correct connector assembly.

2.4. Standards

- EN 61984: Connectors - Safety requirements and tests
- IEC 60664-1: Insulation coordination for equipment within low-voltage systems (Part 1)

3. DESCRIPTION

This application specification describes the male module insert and the female module insert of the HMN-HD3-10-M/F series.

The listed terms are used in the specification as shown HMN-HD3-10-M/F with H24BN module frame as example in figure 1.

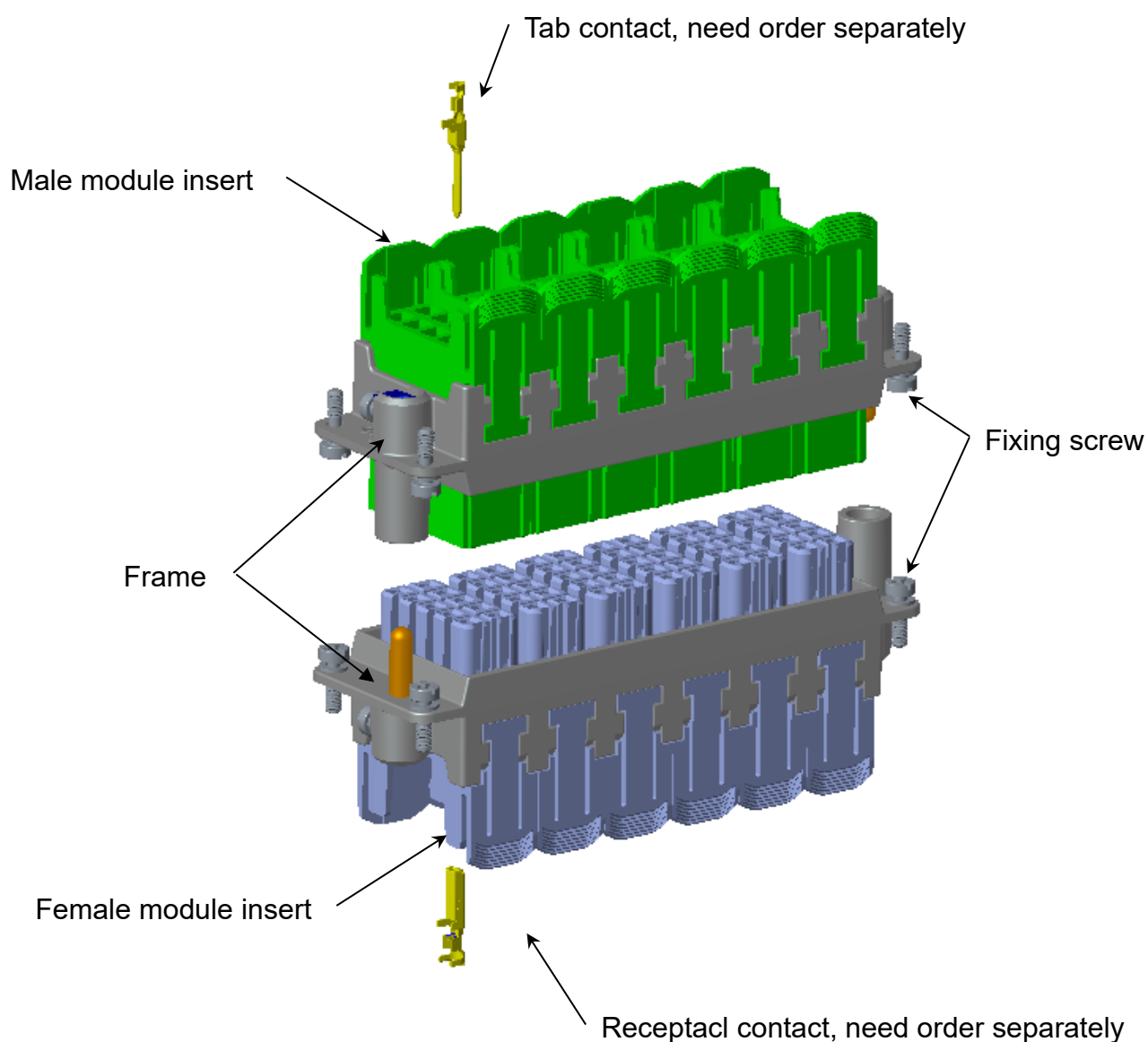


Figure: 1

4. REQUIREMENTS

4.1. Applicable Contacts

Please refer Table.1.

Table:1

Series Items	Contact Size	Applicable Contact		Crimp Requirements
		Tab	Receptacle	
		Part Number	Part Number	
HMN-HD3-10-M/F	S	2316815-1 : Reel 2316817-1 : L/P	2298107-1 : Reel 2311162-1 : L/P	Tab 114-78024 Receptacle 114-78030
	M	2316815-2 : Reel 2316817-2 : L/P	2298107-2 : Reel 2311162-2 : L/P	
	L	2316815-3 : Reel 2316817-3 : L/P 1-2316815-8: Reel	2298107-3 : Reel 2311162-3 : L/P 6-2298107-8: Reel	
	2L	2316815-4 : Reel 2316817-4 : L/P 1-2316815-9: Reel	2298107-4 : Reel 2311162-4 : L/P 6-2298107-9: Reel	
	3L	2316815-5 : Reel 2316817-5 : L/P	2298107-5 : Reel 2311162-5 : L/P	

4.2. Assemble wires to inserts

4.2.1. Inserts of crimp termination (HMN-HD3-10-M/F)

- Insert crimped terminals into module inserts

The crimped terminals are plugged into the module insert by gently pushing it into the required position until the contact is locked by the inserts, a click should be heard normally.

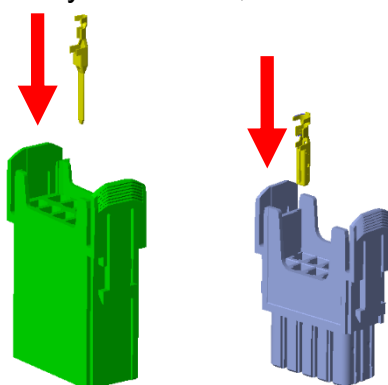


Figure: 2



Application Specification

114-78026
Feb 12th, 2025 Rev. B2

4.2.2. Extract of crimp termination(HMN-HD3-10-M/F)

Refer to 411-5726

4.3. Assembly keying plug to Inserts

Refer to 114-78032

5. ASSEMBLY

Assembling the contact inserts for both Male & Female connector has to be carried out with proper tools.

5.1. Applicable Frames

Please refer Table 2.

Table 2

Description	Size	Part Number	Type
H10A frame for 1 modules	H10A	T2079104101-002	H10A-T1-M-HD
		T2079104201-002	H10A-T1-F-HD
H6B frame for 2 modules	H6B	T2070064101-002	H6BN-T2-M-HD
		T2070064201-002	H6BN-T2-F-HD
H10B frame for 3 modules	H10B	T2070104101-002	H10BN-T3-M-HD
		T2070104201-002	H10BN-T3-F-HD
H16B frame for 4 modules	H16B	T2070164101-002	H16BN-T4-M-HD
		T2070164201-002	H16BN-T4-F-HD
H24B frame for 6 modules	H24B	T2070244101-002	H24BN-T6-M-HD
		T2070244201-002	H24BN-T6-F-HD

5.2. Contact inserts

The contact inserts are screwed into a corresponding hood or housing by fixing screws M3. The torque is 0.5Nm for reference. Note: * The distance for safe contact of the contact inserts is max. 21mm. See figure 3.

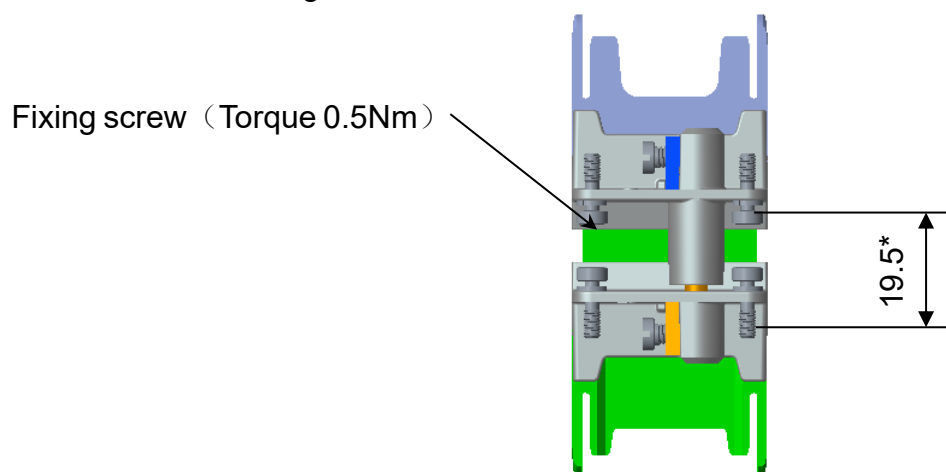


Figure: 3

5.3. Grounding

This clamping point is suitable for connection of a cable with a nominal cross section of up to 4 mm². Earthing is to be executed according to IEC 61984. Tighten torque 1.2Nm.

The strip length of cable for PE connection: 8+/-0.5 mm

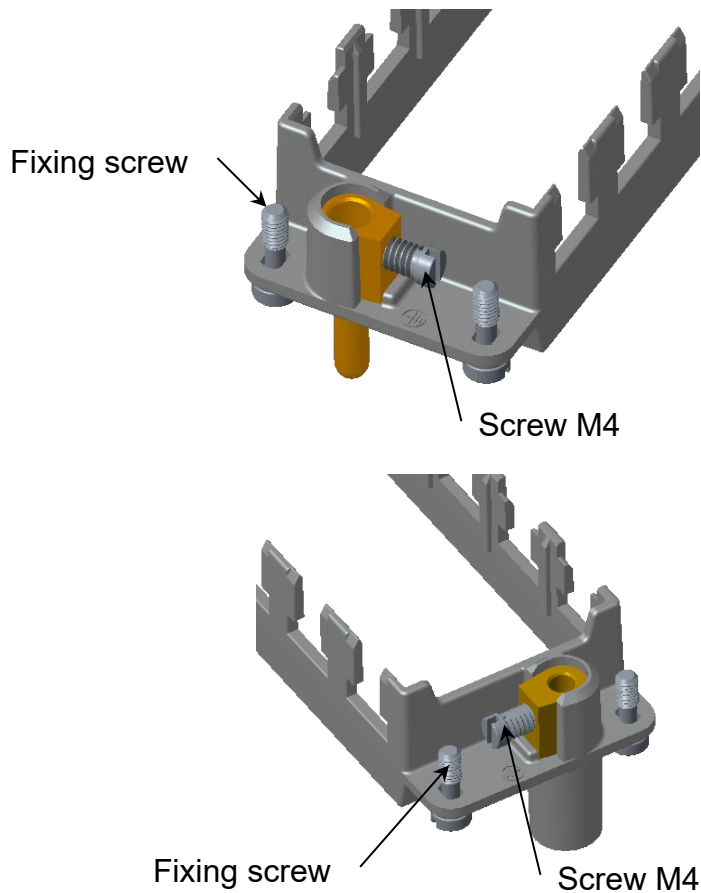


Figure: 4

5.4. Marking

The connector type, rating and the number of position etc. refer to the corresponding HMN-HD3-10-M/F module insert customer drawings.

5.5. Polarization function

The process of assembling the male and female module inserts without any mismatch and difficulty calls for polarization. This is done with the help of ribs or slots and which are present on both the male module insert as well as the female module insert. As shown in figure 5.

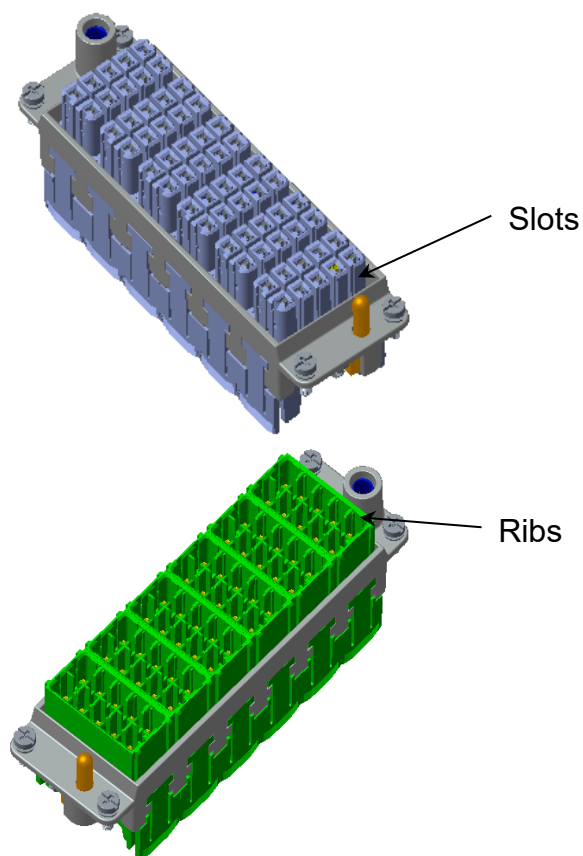


Figure: 5



6. STORAGE

6.1. Chemical exposure

Do not store the connectors near any chemical listed below as they may cause corrosion stress the connector contacts:

Alkalies, Ammonia, Citrates, Phosphates, Citrates, Sulfur, Amines, Carbonates, Nitrites, Sulfides, Nitrites, Tart rates.

6.2. Storage condition

The connectors should be stored in the air ventilation, no corrosive gas, no rain and no snow in the warehouse. Relative humidity: less than 85% RH (For connectors which include insert and contacts or contacts only, the preferred storage temperature is 10°C~27°C, Relative humidity: 25%~60%). The connectors should remain in the shipping containers until ready for use to prevent deformation to the contacts. The connectors should be used on a first in, first out basis to avoid storage contamination that could adversely affect electrical functions.

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