

NUMBER GS-20-0676	TYPE General Application Specification	Amphenol ICC	
TITLE Multi pitch 1.50mm WTB series connector		PAGE 1 of 7	REVISION 2
		AUTHORIZED BY Arthur Zhao	DATE 2021/1/15
CLASSIFICATION UNRESTRICTED			

1.0 OBJECTIVE

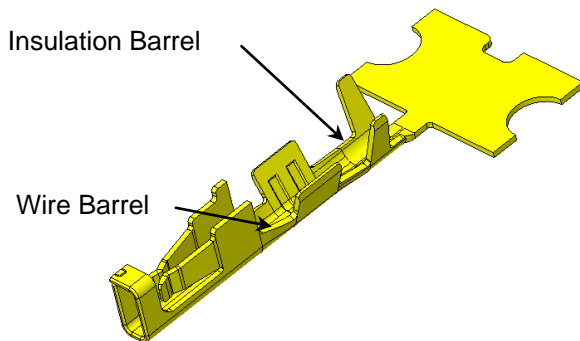
This specification provides information and requirements regarding customer application of multi pitch 1.50mm pitch WTB series connector. This specification is intended to provide general guidance for application process development. It is recognized that no single application process will work under all customer scenarios and that customers will develop their own application processes to meet their needs. However, if these application processes differ greatly from the one recommended, AICC cannot guarantee results.

2.0 SCOPE

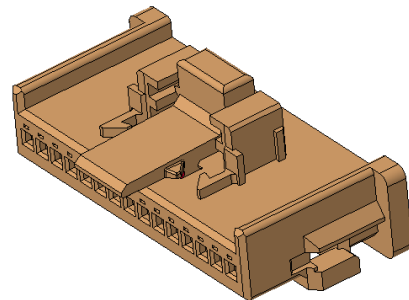
This specification provides information and requirements regarding customer application of 1.50mm pitch WTB series connector .

3.0 GENERAL

This document is meant to be an application guide. If there is a conflict between the product drawings and specifications, the drawings take precedence.



Terminal 10157551



Receptacle Housing 10158508

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4.0 DRAWINGS AND APPLICABLE DOCUMENTS

- AFCI PRODUCT SPECIFICATION GS-12-1610
- AFCI PRODUCT DRAWINGS
- APPLICATION MANUALS/INSTRUCTION SHEETS (IF NOT INCLUDED IN THIS DOCUMENT)

Product drawings and **AFCI's GS-12-1610** Product Specification are available at www.fci.com. In the event of a conflict between this application specification and the drawing, the drawing will take precedence. Customers are advised to refer to the latest revision level of AFCI product drawings for appropriate details.

5.0 APPLICATION REQUIREMENTS

The wires in Table 1 are qualified for use with Terminal 10157551.

Table 1

AWG#	Conductor (mm ²)	Insulation Diameter
#24~#28	0.0804~0.2047	0.60~1.1

6.0 APPLICATION TOOLING

Application Tooling needed for installation of multi pitch 1.50mm WTB series connector is defined in Table 2:

Table 2

Designation	Photo for information only
Mini applicator WTB AWG24~28 For 10157551	

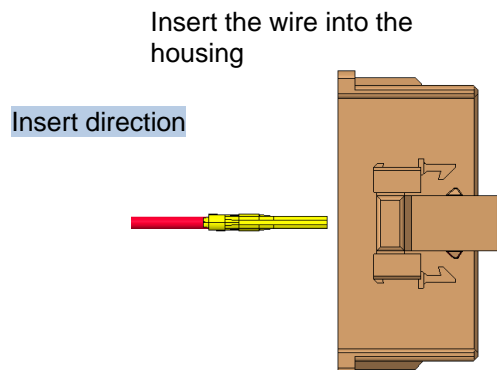
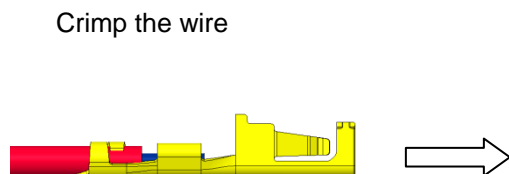
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Table 2(Continued)

Designation	Photo for information only
Spare parts for mini applicator WTB AWG24 For 10157551-24Awg	
Spare parts for mini applicator WTB AWG26 For 10157551-26Awg	
Spare parts for mini applicator WTB AWG28 For 10157551-28aAwg	
Hand tool for mini applicator WTB AWG24 For 10157551	 Part number:10158871-001LF (Please contact with AFCI for the information of business)
Hand tool for mini applicator WTB AWG26 For 10157551	
Hand tool for mini applicator WTB AWG28 For 10157551	

7.0 APPLICATION PROCEDURE

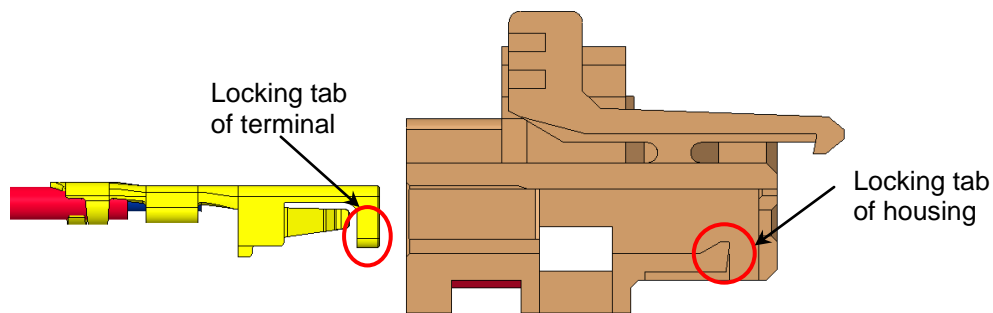
- 7.1 Strip the wire
- 7.2 Crimp the wire
- 7.3 Insert the wire into the housing



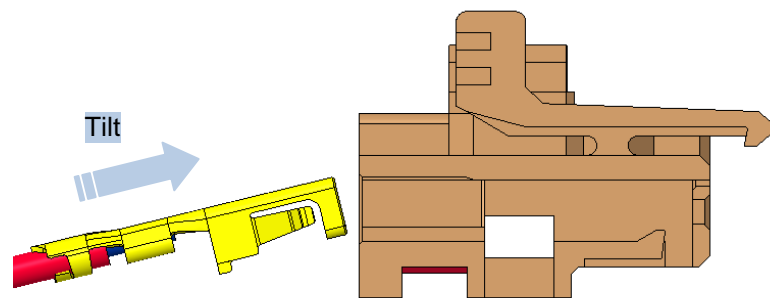
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Note:

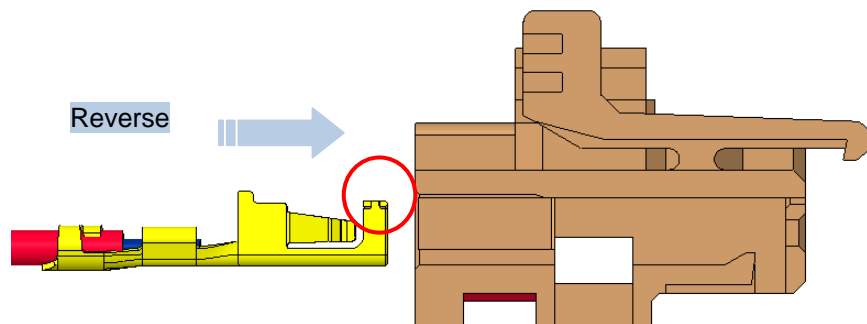
- a) Make sure the Receptacle terminal is well oriented for the insertion to the housing. Insert the terminal into HSG until the front is stopped by HSG. Then locking tab will be engaged the retention shoulder and prevent back out during mating. Pull back on the wire lightly and ensure the terminal is fully seated.



- b) The following incorrect assembly method will result in failure to insert and terminal distortion

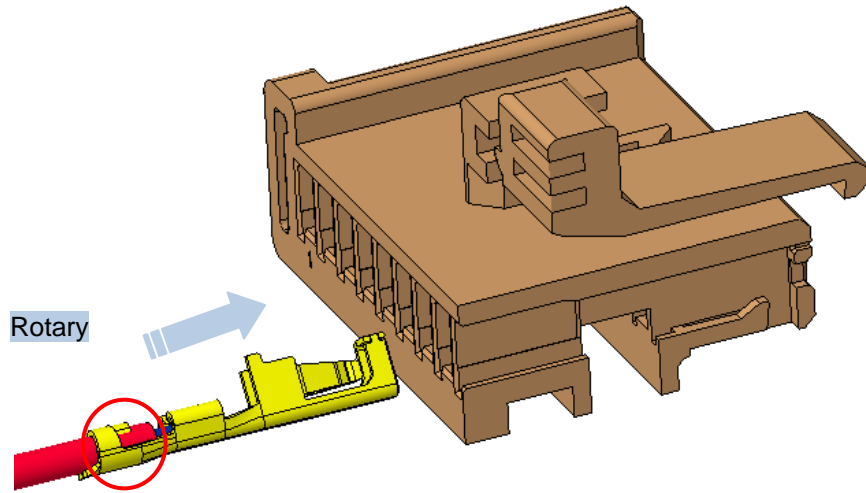


Error model_1



Error model_2

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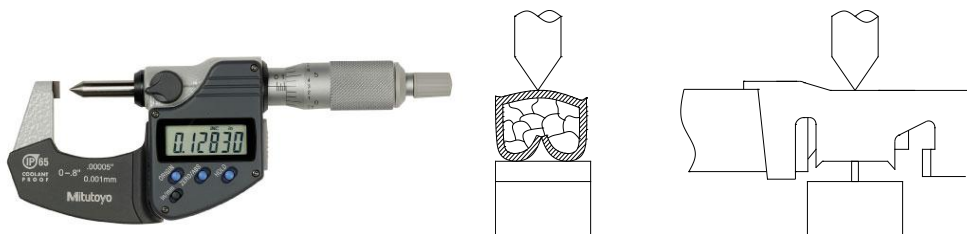


Error model_3

8.0 POST-APPLICATION INSPECTION PROCEDURES

8.1 Crimp height and width measurement:

8.1.1 Use Crimp Height Type Micrometers to measure crimping height.

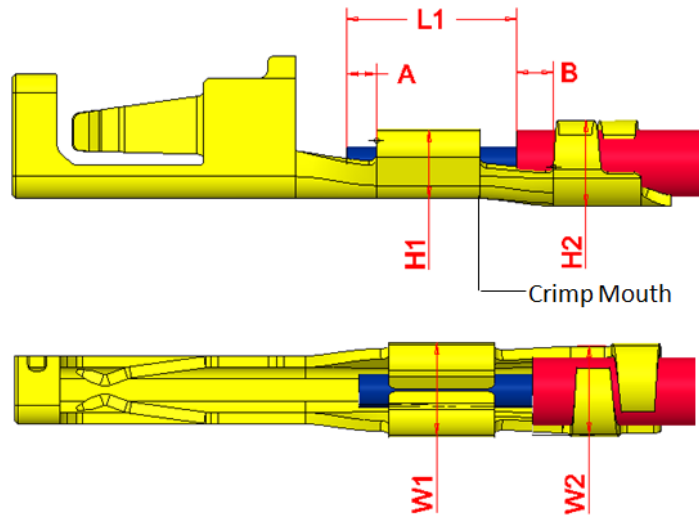


8.1.2 Required crimping dimensions, crimp height and width for different wire AWG are defined in Table 3.

Table 3

Wire Gauge (AWG#)	Conductor Crimp Area			Insulator Crimp Area			Terminal Tensile
	Width(W1)	Height(H1)	Dim. L1(mm)	Width(W2)	Height(H2)	Insulation skins (DIM.B)	Strength
#24	1.21+/-0.04	0.60+/-0.03	1.8~2.2	1.26+/-0.04	1.35+/-0.04	0.5~0.7mm	3.0Kgf
#26	0.94+/-0.04	0.63+/-0.03	1.8~2.2	1.02+0/-0.04	1.28+/-0.03	0.5~0.7mm	2.0Kgf
#28							1.0Kgf

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Note:

1. Conductor crimp width. W1
2. Conductor crimp height. H2
3. Insulator crimp width. W1
4. Insulator crimp height. W2
5. Conductor wire shall be dimension long (mm) out A.
6. Naked part of sheathed wire must be located in the vicinity of center B.
7. The Crimp mouth must be equipped like Shell.

9.0 REPAIR / REMOVAL PROCEDURE

Repairs are not recommended

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10.0 RECORD RETENTION

<u>REV</u>	<u>PAGE</u>	<u>DESCRIPTION</u>	<u>EC#</u>	<u>DATE</u>
1	All	Preliminary		2020/Jun/23
2	All	Update crimping Dim. For 24 AWG	ELX-N-3965	2021/Jan/15