Seat Belt FPC Contact

The performance of applicable product is guaranteed only when processed by proper application tooling and condition described in this specification and/or AMP recognized ones.
No product is guaranteed when processed with the other tool or condition

1. Scope

This specification covers the requirements for crimping of Seat Belt Contact.

2. Applicable Part Number

Part number *	Part Name	Finish
353842	SEAT BELT FPC CONTACT	Tin Plated

NOTE * Note: Parts number is consisted from listed base number and 1 digit numeric prefix and suffix with dash. Refer to catalog or customer drawing for specific part numbers for each base number. When prefix is zero, zero and dash are omitted.

3. Nomenclature

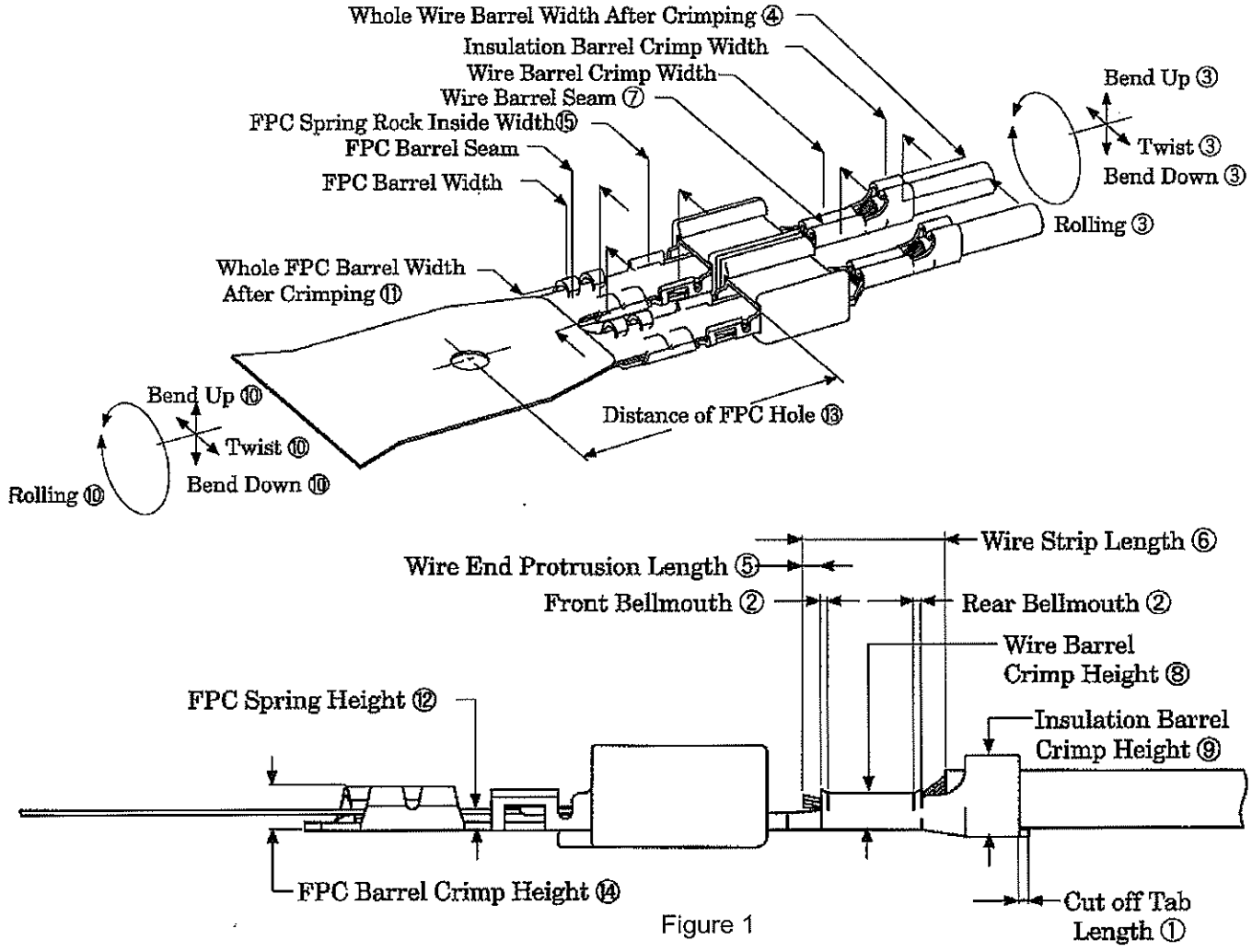

Figure 1

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4. Wire Crimping Conditions

Applicator Crimp \ Applicable Contacts			Contact 353842	Remarks
1	Cut-off Tab Length		0.5mm Max.	Fig.1-①
2	Bellmouth	Front	0.2mm Max.	Fig.1-②
		Rear	0.2～0.5mm Max.	
3	Deformation after The Crimping	Bend	-1°/+2°	Fig.1-③
		Twist	±4° Max.	
		Rolling	±10° Max.	
4	Whole Wire Barrel Width after Crimping		2mm Max.	Fig.1-④
5	Wire End Protrusion Length		0～1mm	Fig.1-⑤
6	Wire Insulation Stripping Length		4～4.5mm	Fig.1-⑥
7	Wire Barrel Seam		Seam must be closed.(A slight gap is allowed on condition that no strand looses out of the seam)	Fig.1-⑦
8	Wire Barrel Crimp Height		See Para.6, Wire Crimping Data.	Fig.1-⑧
9	Insulation Barrel Crimp Height		See Para.6, Wire Crimping Data.	Fig.1-⑨

5. FPC Crimping Conditions

Applicator Crimp \ Applicable Contacts			Contact 353842	Remarks
1	Deformation after Crimping	Bend	-1°/+2°	Fig.1-⑩
		Twist	±4° Max.	
		Rolling	±10° Max.	
2	Whole FPC Barrel Width after Crimping(1)		3.8mm Max. (2)	Fig.1-⑪
3	FPC Spring Height(1)		0.7mm±0.1	Fig.1-⑫
4	Distance Between Contact and FPC Sensor Hole		15mm±0.2	Fig.1-⑬
5	FPC Barrel Crimp Height		See Para.7, FPC Crimping Data.	Fig.1-⑭
6	FPC Spring Rock Inside Width		2.5mm $^{+0.05}_{-0.2}$	Fig.1-⑮

NOTE (1) Must be measured by vernier or micrometer.

(2) Reference dimension.

6. Wire Crimping Data

Contact Part Number	Wire Size (Nominal) (mm^2)	Classific-ation	Applicator Part Number	Wire Barrel Crimp (mm)			Insulation Barrel Crimp (mm)			Crimp Tensile Strength (N)Min.
				Width (mm)	Height (mm)	Disk Ltr.	Width (mm)	Height (mm)	Disk Ltr.	
353842	0.3	AVSS /CAVS	937257-2	1.78 "F"	0.94	C	1.78 "F"	Refer to Section 8	Refer to Section 8	59
	0.5				1.03	B				88
	0.5f	AVSSB								
	0.5f	HFSS			1.00	B				

NOTE (1) Wire Barrel Crimp Height to be within ±0.05mm.

(2) Crimp Tensile Strength includes the wire grip of insulation barrel crimp.

(3) The width dimensions of wire barrel and insulation barrel are given by the width of wire and insulation crimper for reference.

7. FPC Crimping Data

Contact Part Number	FPC Conductor Thickness (μm)	FPC Barrel Crimp Height(mm)	FPC Barrel Crimp Height (mm)	Crimp Tensile Strength(N)
353842	95	409764-□	1.08	15 Min
	118		1.13	15 Min
	175		1.19	15 Min

NOTE (1) Wire Barrel Crimp Height to be within ±0.05mm.

(2) In case of measurement of FPC Barrel Crimp Height, four tops of the barrel should be measured at the same time by general micrometer which has flat surface on both sides of measurement tips.

(3) Please contact AMP when FPC Conductor Thickness does not meet above condition.

8. Insulation Barrel Crimping Data

Contact Part Number	Wire Size (Nominal) (mm^2)	AVSS		HFSS	
		Height (mm)	Disk Ltr. (Reference)	Height (mm)	Disk Ltr. (Reference)
353842	0.3	2.29	3	--	--
	0.5	2.37	3	--	--
	0.5f	2.37	3	2.29	3

NOTE (1) Insulation Barrel Crimp Height to be within ±0.1mm.

9. Applicable Wires

Wire Size(Nominal) (mm^2)	Number /Diameter (mm) of Conductor (mm)	Calculated Cross sectional (mm^2)	Insulation Diameter (mm)					
			AVSS/CAVS		AVSSB		HFSS	
			STD.	Max.	STD.	Max.	STD.	Max.
0.3	7/0.26	0.37	1.4	1.5	--	--	--	--
0.5	7/0.32	0.56	1.6	1.7	--	--	--	--
0.5f	20/0.18	0.51	--	--	1.7	1.8	--	--
0.5f	19/0.185	0.5107	--	--	--	--	1.5	1.7

NOTE (1) Please follow the instruction sheet or specification of each application connector because that is often different from that of the application connectors.