

FPC SEAT SENSOR CONNECTOR MK-II(SEALED TYPE)

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 FPC and diode Contact.

2. Applicable Contacts

Part Numbers*	Part Name	Finish
353842	SEAT BELT FPC CONTACT	Tin-plated
1318526	DIODE CRIMP CONTACT	

NOTE

* Part 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 omitted.

3. Nomenclature

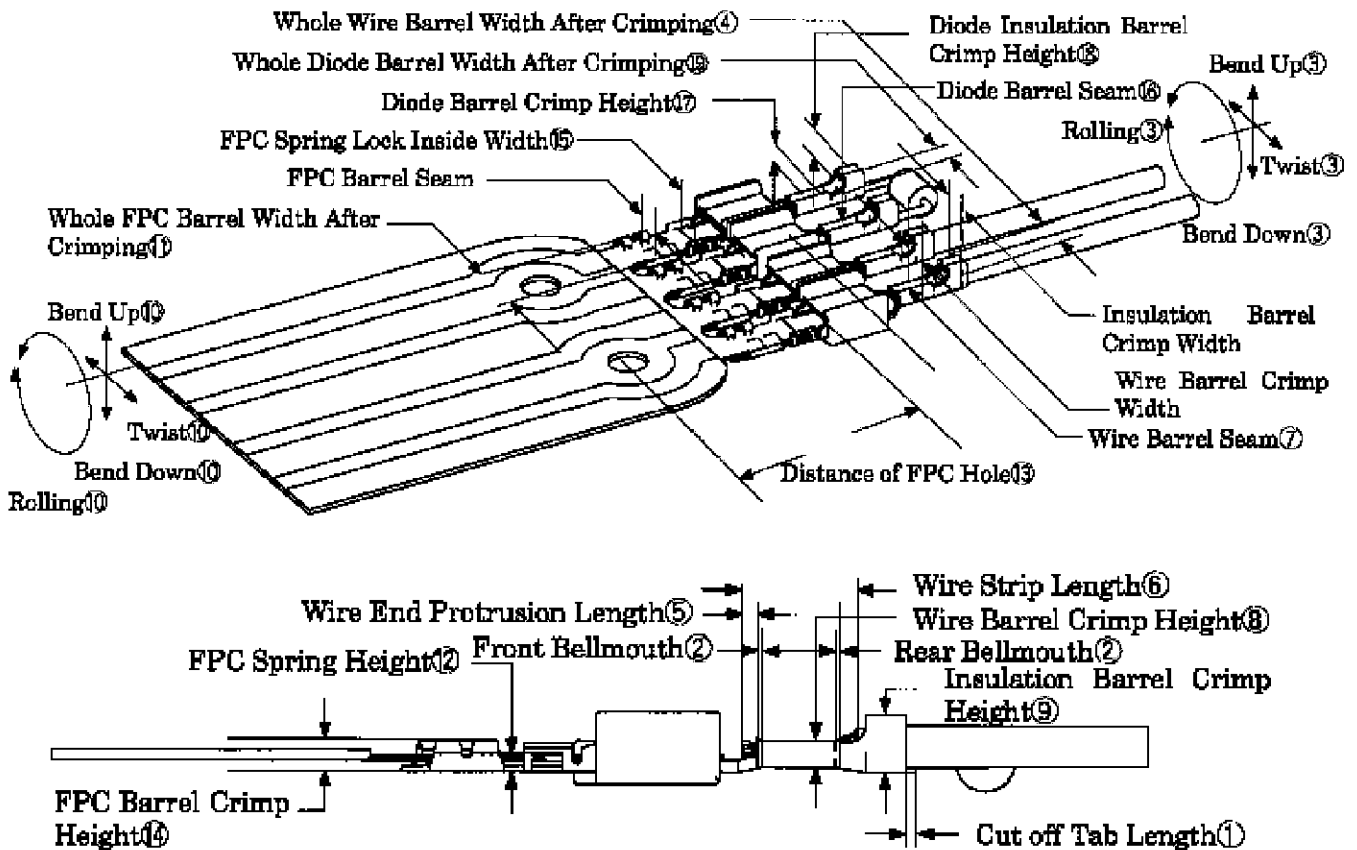


Fig.1

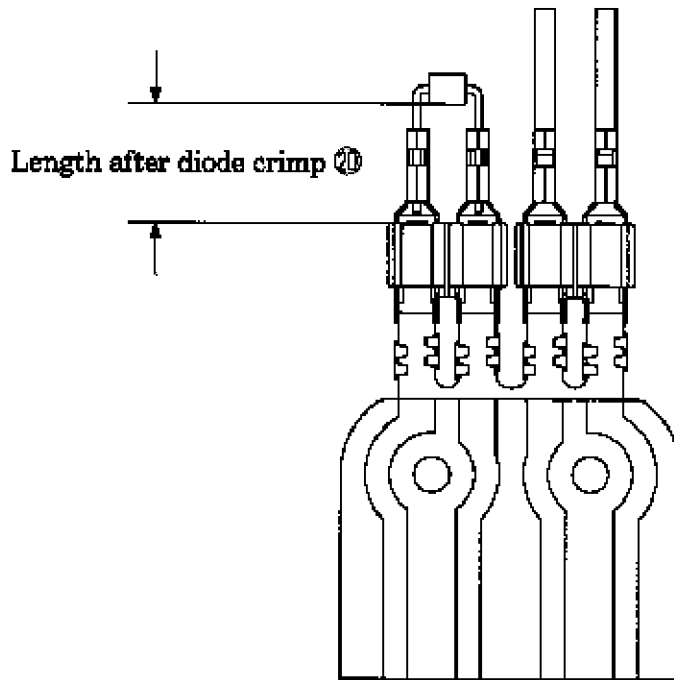


Fig.2

4. Wire Crimping Conditions

		Contact		Remarks
		353842		
1	Cut-off Tab Length	0.5 mm Max.		Fig.1-①
2	Bell mouth	Front	0.2 mm Max.	Fig.1-②
		Rear	0.2~0.5mm	
3	Deformation After Crimping	Bend	-1° , +2° Max.	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	0~1 mm Max.		Fig.1-⑤
6	Wire Insulation Stripping Length	4~4.5 mm		Fig.1-⑥
7	Wire Barrel Seam	Seam must be neatly closed. (A slight gap is allowed on condition that no strand loses out of the seam.)		Fig.1-⑦
8	Wire Barrel Crimp Height	See Para.7, Wire Crimping Data.		Fig.1-⑧
9	Insulation Barrel Crimp Height	See Para.7, Wire Crimping Data.		Fig.1-⑨

5. FPC Crimping Conditions

			Contact	Remarks
			353842,1318526	
1	Deformation After Crimping	Bend	-1° /+2° Max.	Fig.1-⑩
		Twist	±4° Max.	
		Rolling	±10° Max.	
2	Contact 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		15.5mm±0.2	Fig.1-⑬
5	FPC Barrel Crimp Height		See Para.8.,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 venire or micrometer.
(2) Reference dimension.

6. DIODE Crimping Conditions

			Contact	Remarks
			1318526	
1	Cut-off Tab Length		0.5 mm Max.	Fig.1-①
2	Bell mouth	Front	0.2 mm Max.	Fig.1-②
		Rear	0.2~0.5mm	
3	Deformation After Crimping	Bend	-1° , +2° Max.	Fig.1-③
		Twist	±4° Max.	
		Rolling	±10° Max.	
4	Wire Barrel Seam		Seam must be closed.	Fig.1-⑯
5	Wire Barrel Crimp Height		See Para.9, Diode Crimping Data.	Fig.1-⑰
6	Insulation Barrel Crimp Height		See Para.9, Diode Crimping Data.	Fig.1-⑱
7	Whole Wire Barrel Width after Crimping		2mm Max.	Fig.1-⑲
8	Diode Length after Crimping		11.3±0.3mm	Fig.2-⑳

7. Wire Crimp Data

Contact Part Number	Wire Size (Nominal) (mm ²)	Applicator Part Number	Wire Barrel Crimp (mm)			Insulation Barrel Crimp (mm)			Crimp Tensile Strength(N)
			Width	Height	Disk Ltr.	Width	Height	Disk Ltr.	
353842	0.3	937257-2	1.78"F"	0.94	C	1.78"F"	2.29	3	59 Min.
	0.5			1.03	B		2.37	3	88 Min.
	0.5f								

- NOTE** (1) Wire Barrel Crimp Height to be within ± 0.05
 (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.
 (4) Insulation Barrel Crimp Height to be within ± 0.1

8. FPC Crimping Data

Contact Part Number	FPC Cu Layer Thickness (μ m)	FPC Barrel Crimp Height(mm)	FPC Barrel Crimp Height(mm)	Crimp Tensile Strength(N)
353842 1318526	95	1276819-1 1366293-□	1.08	15 Min.
	118		1.13	15 Min.
	175		1.19	15 Min.

- NOTE** (1) Wire Barrel Crimp Height to be within ± 0.05
 (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 TE when FPC Cu Layer Thickness dose not meet above condition.

9. Diode Crimp Data

Contact Part Number	Diameter of Diode Conductor (mm ²)	Diode Crimping Tool Number	Barrel Crimp (mm)		Insulation Barrel Crimp (mm)		Diode Crimp Tensile Strength(N)
			Height	Width	Height	Width	
1318526	$\phi 0.62$	1276665-1	1.15	1.4"F"	2.20	1.78"F"	40 Min.

- NOTE** (1) Barrel Crimp Height to be within ± 0.05
 (2) Insulation Barrel Crimp Height to be within ± 0.15
 (3) The width dimensions of wire barrel and insulation barrel are given by the width of wire and insulation crimper for reference.

10. Applicable Wire Data

Wire Size (Nominal) (mm ²)	Number/ Diameter of conductor (mm)	Calculated Cross sectional Area (mm ²)	Insulation Diameter (mm)			
			AVSS/CAVS		AVSSB	
			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

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