



.110K Terminal



1. SCOPE

This specification contains the guidelines for the application of contact system 110Tab/Rec.
It applies primarily to the full- or semi-automatic application of the contacts

2. REFERENCED DOCUMENTS

2.1 Customer Drawings

The dimensions and materials of the contacts are shown in the TE customer drawings.
In the case of a conflict between this document and the customer drawing, the customer drawing takes precedence.

2.2 Product Specification

The Product Specification 108-61432 describes the characteristics of these contacts, together with the electrical and mechanical requirements.

2.3 Application Specification

The crimp quality must also comply with the general guidelines laid down in the application specification 114-18022.

3. DESCRIPTION OF NOMENCLATURE

The following terms are used in the specification.

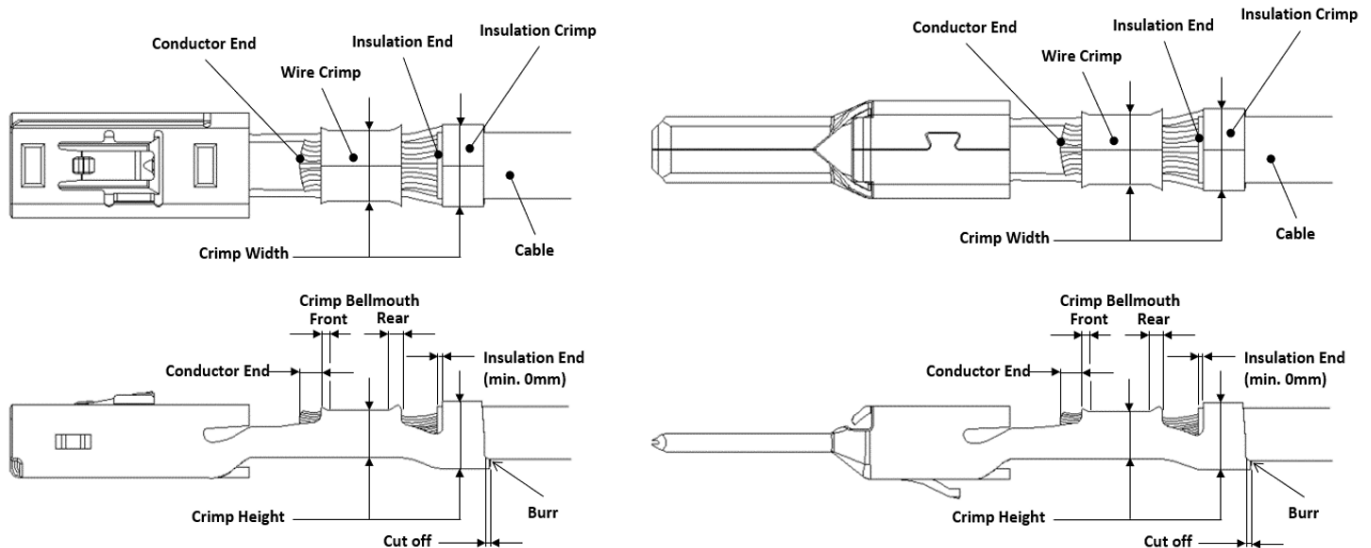


Fig. 1

4. REQUIREMENTS

4.1 Wire

The contacts are primarily designed for low-voltage cables for automobile.

Single termination is preferred. Double termination within the wire range is possible only with restrictions.

4.2 Cut off Tab

The cut off tab is still visible and may be 0.3mm Max long.

4.3 Wire Crimp

A. Wire position

After crimping the end of the wire must extend 0 to 0.8mm beyond the front edge of the wire crimp.

In no case may the end of the insulation be crimped under the wire crimp.

B. Crimping data

The shape, height, width of the crimp and the wire range are shown in table 1.

Crimp height measurement: see 114-18022.

C. Burr on base of crimp

Any burr on the base of the crimp may not exceed 0.1mm

D. Bellmouth

The size of the rear bellmouth depends on the wire range:

$\leq 0.5\text{mm}^2$: 0.25 ± 0.15 mm

$> 0.5\text{mm}^2$: 0.4 ± 0.2 mm

The front bellmouths should be absent or can be 0.2mm Max.

4.4 Transition

A bulging of contact material to the outside at the transitions of wire crimp to body and wire crimp to insulation crimp is not allowed.

4.5 Insulation Crimp

The shape and width are shown in Table 1.

In the case of contacts for crimping on wires, the insulation end must be visible in the transition between the wire crimp and the insulation crimp.

In no case may the insulation be crimped on the wire crimp; conversely, the insulation must extend at least to the front edge of the insulation crimp.

This dimension must also be kept in the transition-areas.

4.6 Contact Area

After crimping, neither the cantilever spring, the locking lance nor the contact body may be bent or deformed.

4.7 Shape and Positional Tolerances of the Crimped Contact

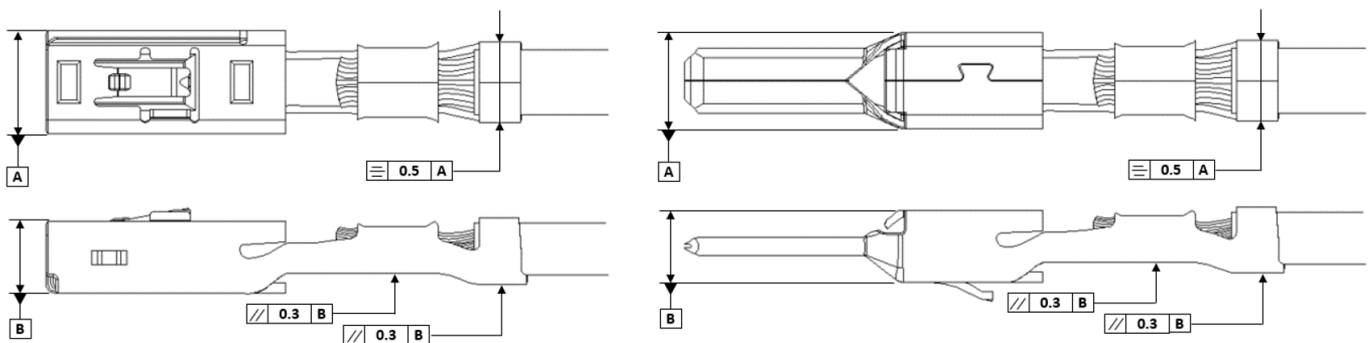


Fig. 2

5. CRIMP DATA

Table 1: Application Crimp for Tab Terminal									
Contact P/N	Wire Range (mm ²)	Insulation Range Ø (mm)	Strip Length (mm)	Wire Barrel Crimp			Insulation Barrel Crimp		
				Width(CB ₁) (mm)	Height (CH ₁) (mm)	Crimper Width Test Dimension CP ₁ (mm)	Width(CB ₂) (mm)	Height(CH ₂) (mm)	Crimper Width Test Dimension CP ₂ (mm)
0-2317588-1	0.3/0.35	(1.2-1.5)	3.4 ± 0.3	1.4 "F"	1.03 ± 0.03	1.54 Max	2.03 WRAP	2.2 Max	2.2 Max
0-2317589-1	0.5	(1.4-1.7)	3.8 ± 0.3	2.03 "F"	1.15 ± 0.05	2.2 Max	2.54 OVL	2.7 Max	2.7 Max
	0.75	(1.7-1.9)			1.18 ± 0.05				
	0.85	(1.8-1.9)			1.22 ± 0.05				
	1.0	(1.9-2.1)							
0-2317590-1	1.25	(2.1-2.2)	4.1 ± 0.3	2.54 "F"	1.47 ± 0.05	2.7 Max	3.56 OVL	3.7Max	3.7Max
	1.5	(2.2-2.4)			1.52 ± 0.05				
	2.0	(2.6-2.7)			1.7 ± 0.05				
	2.5	(2.9-3.1)			1.76 ± 0.05				
0-2317601-1	3.0	(3.6-3.8)	5 ± 0.3	3.05 "F"	1.95 ± 0.05	3.3 Max	4.1 OVL	4.3 Max	4.3 Max
9-2317589-1	Al 0.75	(1.4)	TBD						
	Al 1.25	(1.8)	TBD						
9-2317590-1	Al 2.0	(2.5)	TBD						



Table 2: Application Crimp for Rec Terminal

Contact P/N	Wire Range (mm ²)	Insulation Range Ø (mm)	Strip Length (mm)	Wire Barrel Crimp			Insulation Barrel Crimp		
				Width(CB ₁) (mm)	Height (CH ₁) (mm)	Crimper Width Test Dimension CP ₁ (mm)	Width(CB ₂) (mm)	Height(CH ₂) (mm)	Crimper Width Test Dimension CP ₂ (mm)
0-2317603-1	0.3/0.35	(1.2-1.5)	3.4 ± 0.3	1.4 "F"	1.03 ± 0.03	1.54 Max	2.03 WRAP	2.2 Max	2.2 Max
0-2317604-1	0.5	(1.4-1.7)	3.8 ± 0.3	2.03 "F"	1.15 ± 0.05	2.2 Max	2.54 OVL	2.7 Max	2.7 Max
	0.75	(1.7-1.9)			1.18 ± 0.05				
	0.85	(1.8-1.9)			1.22 ± 0.05				
	1.0	(1.9-2.1)			1.27 ± 0.05				
0-2317605-1	1.25	(2.1-2.2)	4.1 ± 0.3	2.54 "F"	1.47 ± 0.05	2.7 Max	3.56 OVL	3.7Max	3.7Max
	1.5	(2.2-2.4)			1.52 ± 0.05				
	2.0	(2.6-2.7)			1.7 ± 0.05				
	2.5	(2.9-3.1)			1.76 ± 0.05				
0-2317606-1	3.0	(3.6-3.8)	5 ± 0.3	3.05 "F"	1.95 ± 0.05	3.3 Max	4.1 OVL	4.3 Max	4.3 Max
9-2317604-1	Al 0.75	(1.4)	TBD						
	Al 1.25	(1.8)	TBD						
9-231605-1	Al 2.0	(2.5)	TBD						

6. APPLICABLE WIRE RANGE (REFERENCE)

Nominal Wire Size	Wire Type	Number of Strands / Diameter of Strand (mm)	Calculated Cross Section Area (mm ²)	Overall outside Diameter (mm)	
				Normal	Maximum
0.3	AVSS	7 / 0.26	0.3717	1.4	1.5
0.35	FLRY-B	12 / 0.21	0.4156	1.2	1.4
0.5	AVSS	7 / 0.32	0.5630	1.6	1.7
0.75	AVSSXF	19 / 0.23	0.7894	1.8	1.9
0.85	AVSS	19 / 0.24	0.8595	1.8	1.9
1.0	FLRY-B	32 / 0.21	1.1084	1.9	2.1
1.25	AVSS	19 / 0.29	1.2550	2.1	2.2
1.5	FLRY-B	30 / 0.26	1.5928	2.2	2.4
2.0	AVSSXF	37 / 0.26	1.9644	2.6	2.7
2.5	FLRY-B	50 / 0.26	2.6546	2.7	3.0
3.0	AVS	41 / 0.32	3.297	3.6	3.8