

HD1 contacts

1. SCOPE

This Application specification covers the crimping requirements for HD1 contacts

2. APPLICABLE PRODUCT PART NUMBER

See Fig.1.

Contact Type	Size	Contact Part number *L/P: Loose Piece	Wire Size (AWG# REF) [mm ²]	Insulation Diameter [mm]
Receptacle Contact	S	*-2316670-1 : Reel	0.05~0.10 (#30~#28)	φ 0.60~ φ 1.20
		*-2316671-1 : L/P		
	M	*-2316670-2 : Reel	0.08~0.37 (#28~#22)	φ 1.08~ φ 1.60
		*-2316671-2 : L/P		
	L	*-2316670-3 : Reel	0.08~0.37 (#28~#22)	φ 1.08~ φ 1.90
		*-2316671-3 : L/P		
	2L	*-2316670-4 : Reel	0.34~0.87 (#22~#18)	φ 1.40~ φ 2.20
		*-2316671-4 : L/P		
Tab Contact	S	*-2316663-1 : Reel	0.05~0.10 (#30~#28)	φ 0.60~ φ 1.20
		*-2316669-1 : L/P		
	M	*-2316663-2 : Reel	0.08~0.37 (#28~#22)	φ 1.08~ φ 1.60
		*-2316669-2 : L/P		
	L	*-2316663-3 : Reel	0.08~0.37 (#28~#22)	φ 1.08~ φ 1.90
		*-2316669-3 : L/P		
	2L	*-2316663-4 : Reel	0.34~0.87 (#22~#18)	φ 1.40~ φ 2.20
		*-2316669-4 : L/P		

Fig.1

3. Crimping REQUIREMENTS

See Fig.2 and Fig.3

NO.	Check Item	Specified Requirements	NO.	Check Item	Specified Requirements
①	Wire Stripping Length	2mm±0.3	⑥	Twisting	3° Max
②	Cut-Off Tab Length	0.25mm Max	⑦	Rolling	5° Max
③	Rear Bell mouth Length	0.1~0.3mm	⑧	Wire-End Protrusion Length	0.1~0.65mm
④	Bend-Up	3° Max	⑨	Insulation Barrel Width	See Fig.4, 5
⑤	Bend-Down	3° Max	[a]		
			⑩	Insulation Barrel Height	See Fig.4, 5

[a]. Insulation barrel crimping dimension ⑨ and ⑩ should be controlled under Fig.4 and Fig.5 not to interfere housings.

Fig 2

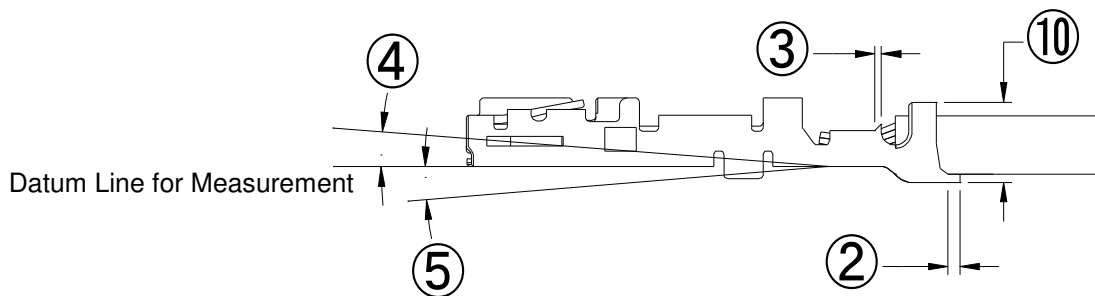
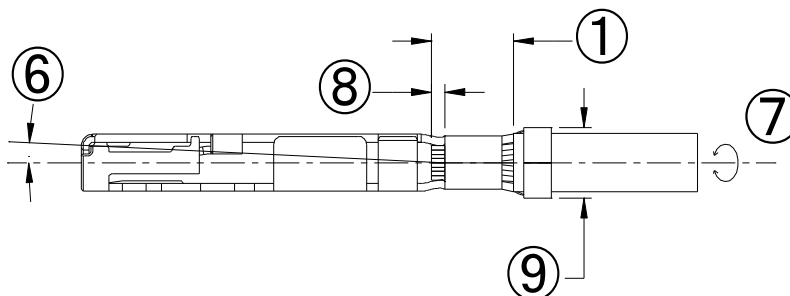


Fig 3

4. CRIMPING DATA

4.1 Applicator

See Fig.4

Reel Contact Part No		Applicator Number	Wire Size		Insulation Stripping Length [mm]	Wire Crimp		Insulation		Finished Insulation Diameter [mm]	Crimp Tensile Strength [Kg MIN]
			No. of Conductor [b]	Cross Section [mm ²] (AWG) [c]		Width [mm]	Crimp Height [mm]	⑨ Barrel Width [mm]	⑩ Crimp Height [mm]		
S	*-2316663-1 *-2316670-1	2151110-1	1	0.05~ 0.06(#30)	2.0±0.3	0.90 (REF)	0.54±0.03	1.5MAX " F "	1.4~ 1.8MAX	φ0.60~ φ1.20	0.5
			1	0.08~ 0.10(#28)			0.57±0.03				1.0
M	*-2316663-2 *-2316670-2	2151082-1	1	0.08~ 0.10(#28)	2.0±0.3	1.16 (REF)	0.64±0.03	1.5MAX " F "	1.6~ 2.2MAX	φ1.08~ φ1.60	1.0
			1	0.12~ 0.15(#26)			0.67±0.03				2.0
			1	0.21~ 0.23(#24)			0.73±0.03				3.0
			1	0.34~ 0.37(#22)			0.80±0.03				4.5
L	*-2316663-3 *-2316670-3	2151111-1	1	0.08~ 0.10(#28)	2.0±0.3	1.16 (REF)	0.64±0.03	2.1MAX " F "	1.6~ 2.4MAX	φ1.08~ φ1.90	1.0
			1	0.12~ 0.15(#26)			0.67±0.03				2.0
			1	0.21~ 0.23(#24)			0.73±0.03				3.0
			1	0.34~ 0.37(#22)			0.80±0.03				4.5
2L	*-2316663-4 *-2316670-4	2151083-1	1	0.34~ 0.37(#22)	2.0±0.3	1.40 (REF)	0.85±0.03	2.1MAX " F "	2.0~ 2.4MAX	φ1.40~ φ2.20	4.5
			1	0.51~ 0.53(#20)			1.00±0.03				6.5
			1	0.85~ 0.87(#18)			1.15±0.03				6.5

[b]. The contacts are not applicable for crimping multi wires.

The strand diameter should be over φ0.1mm.

[c]. Solid wire is not applied.

Fig.4

4.2 Hand Tool

See Fig.5

Loose Piece Contact Part No	Hand Tool Number [d]	Wire Size		Insulation Stripping Length [mm]	Wire Crimp		Insulation		Finished Insulation Diameter [mm]	Crimp Tensile Strength [Kg MIN]			
		No. of Conductor [e]	Cross Section [mm ²] (AWG) [f]		Width [mm]	Crimp Height [mm]	⑨ Barrel Width [mm]	⑩ Crimp Height [mm]					
S	*-2316669-1 *-2316671-1	2305684-1 (2119144-1 with 2305680-1)	1	0.05~ 0.06(#30)	2.0±0.3	0.90 (REF)	0.49~0.59	1.5MAX " F "	1.3(REF)	φ 0.60~ φ 1.00	0.5		
			1	0.08~ 0.10(#28)					1.5(REF)	φ 0.80~ φ 1.20	1.0		
M	*-2316669-2 *-2316671-2	2305681-1 (2119141-1 with 2305680-1)	1	0.08~ 0.10(#28)	2.0±0.3	1.16 (REF)	0.59~0.69	1.5MAX " F "	1.95(REF)	φ 1.08~ φ 1.40	1.0		
			1	0.12~ 0.15(#26)							2.0		
			1	0.21~ 0.23(#24)							2.1(REF)	φ 1.20~ φ 1.60	3.0
			1	0.34~ 0.37(#22)							0.69~0.79	4.5	
L	*-2316669-3 *-2316671-3	2305683-1 (2119143-1 with 2305680-1)	1	0.08~ 0.10(#28)	2.0±0.3	1.16 (REF)	0.59~0.69	2.1MAX " F "	2.05(REF)	φ 1.08~ φ 1.40	1.0		
			1	0.12~ 0.15(#26)							2.0		
			1	0.21~ 0.23(#24)							2.2(REF)	φ 1.20~ φ 1.90	3.0
			1	0.34~ 0.37(#22)							0.69~0.79	4.5	
2L	*-2316669-4 *-2316671-4	2305682-1 (2119142-1 with 2305680-1)	1	0.34~ 0.37(#22)	2.0±0.3	1.40 (REF)	0.80~0.90	2.1MAX " F "	2.1(REF)	φ 1.40~ φ 2.00	4.5		
			1	0.51~ 0.53(#20)							6.5		
			1	0.85~ 0.87(#18)							1.10~1.20	2.4(REF)	φ 1.80~ φ 2.20

[d]. Apply to use D1000 Hand tool with 2305680-1 by exchange flip locator

[e]. The contacts are not applicable for crimping multi wires.

The strand diameter should be over φ0.1mm.

[f]. Solid wire is not applied.

Fig.5