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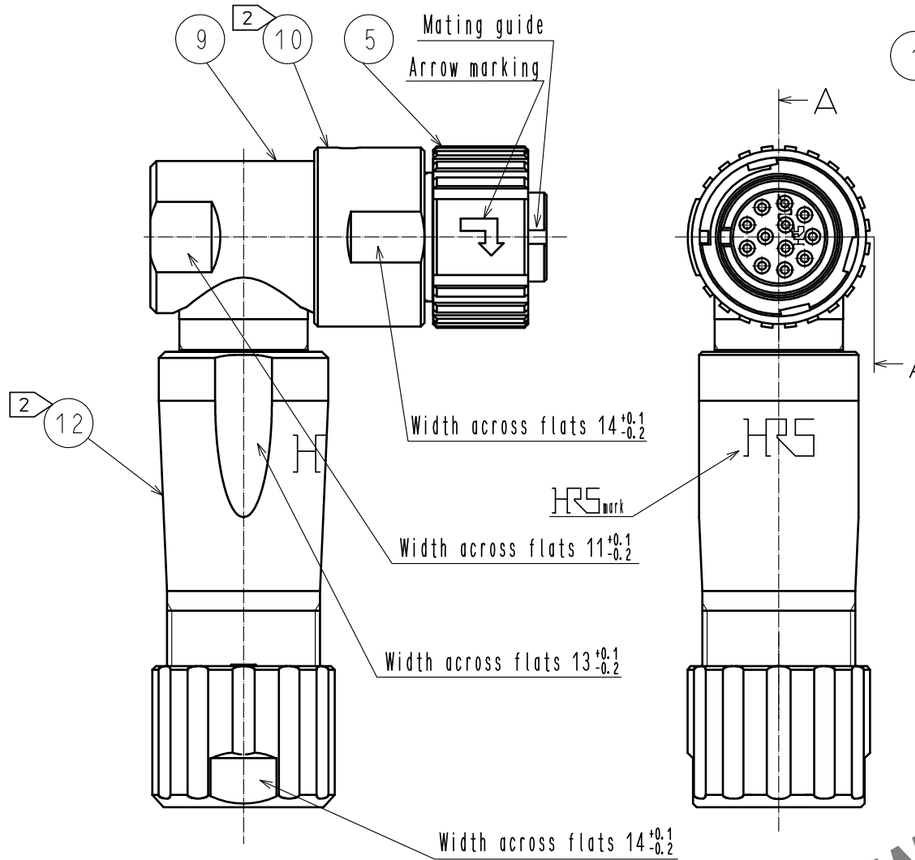
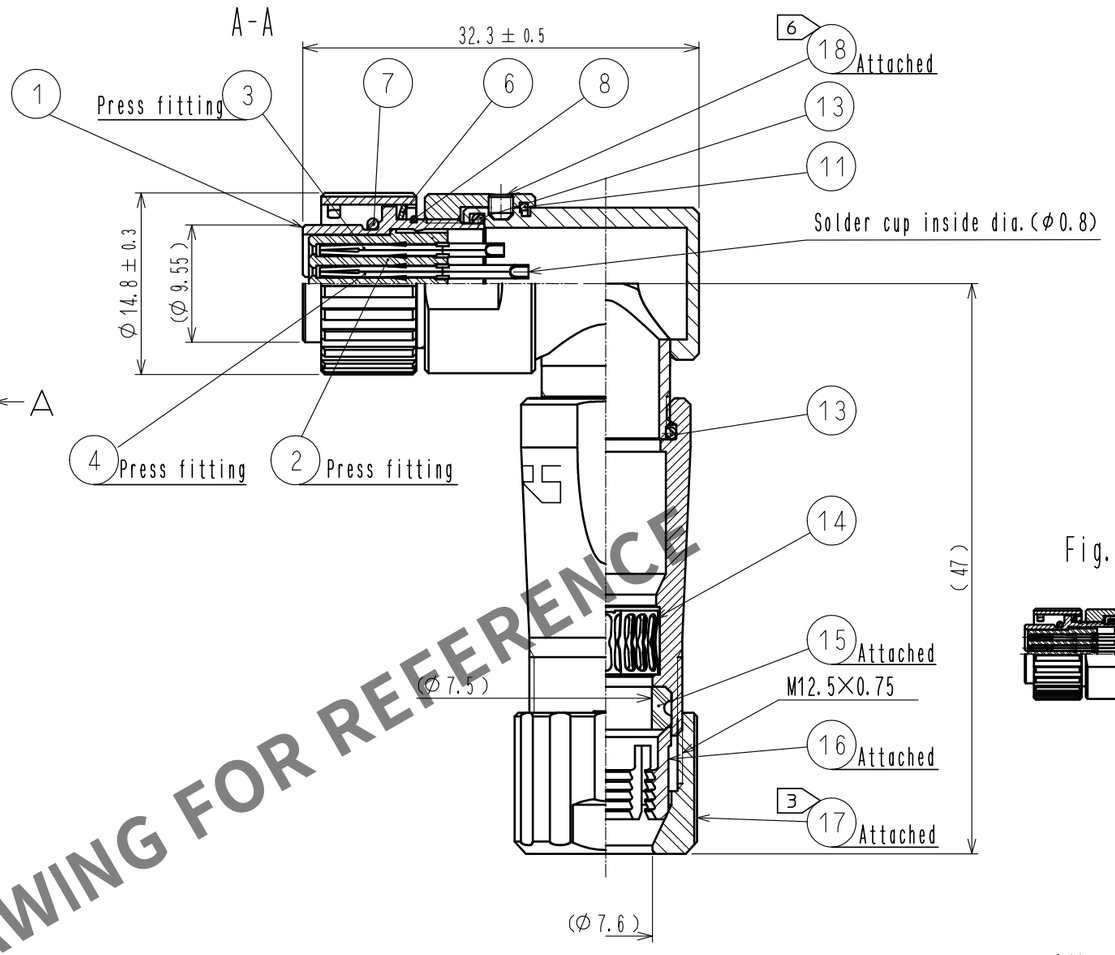
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.





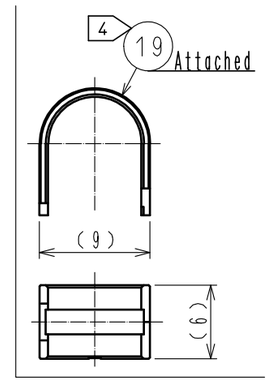
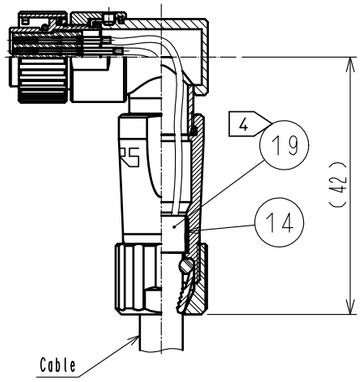


Fig.1 (1:1)



HRS DRAWING FOR REFERENCE

Notes
1. Plating (ref. No. ③, ④)
   Contact area : Gold 0.2μm min
   Others : Gold and nickel
   Under plating : Nickel 2μm min
1. 2. The recommended clamp torque of ref. No. ⑩, ⑫ to be 1.5 to 2 N・m.
   Thread locker to the threaded portion of ref. No. ① applies to prevent ref. No. ①, ⑨ from loosing.
   Recommended thread locker : LOCTITE 263, HENKEL JAPAN LTD.
1. 3. The recommended clamp torque of ref.No. ⑰ to be 0.8 to 1 N・m.
   Thread locker and lock primer to the threaded portion M12.5 ×0.75 of ref. No. ⑫ applies to prevent ref.No. ⑫ from loosing.
   Recommended thread locker and lock primer : LOCTITE 263, LOCK PRIMER 7649, HENKEL JAPAN LTD.
4. Fasten ref.No. ⑲ to the cable with the cable crimping tool.
   And make ref.No. ⑲ contact with ref.No. ⑭ (Refer to Fig.1).
   Refer to the technical specification ETAD-C0404 for details.
5. Applicable cable crimping tool : LF-TC-01 (CL-150-0234-6)(The hole diameter for crimping:φ7.9)
   Applicable cable assembly fixture : LF10BP-T01 (CL150-0235-9)
6. The recommended clamp torque of ref. No. ⑱ to be 0.12 to 0.15 N・m, and opposite side distance is 0.889mm.
   Thread locker and lock primer to the threaded portion of ref. No. ⑱ is recommended to prevent ref.No. ⑱ from loosing.
   Recommended thread locker and lock primer : LOCTITE 263, LOCK PRIMER 7649, HENKEL JAPAN LTD.
7. Rotation examples of ref.No. ⑤, ⑨ and ⑩ to ① are shown.
   and rotation examples of ref.No. ⑫, ⑰ to ⑨ are shown.
8. The cable pull and twisting strength and other characteristics may differ, depending on the cable structure, please confirm before the use.

NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
10	Brass	Nickel plating			
9	Brass	Nickel plating	19	Brass	Nickel plating
8	Stainless steel		18	Stainless steel	Hex socket set screw Dimple M2×0.4×2
7	Chloroprene rubber	(Black)	17	PPS	(Natural, Brown)
6	Stainless steel		16	Polyamide	(Natural, Minky white)
5	Zinc alloy	Nickel plating	15	Chloroprene rubber	(Black)
4	Copper alloy	1	14	Phosphor bronze	Nickel plating
3	Copper alloy		13	Chloroprene rubber	(Black)
2	PPS	(Black) UL94V-0	12	Zinc alloy	Nickel plating
1	Brass	Nickel plating	11	Stainless steel	

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	1	2	DIS-C-00017013	HT. ZENBA	EJ. KUNII	20240311

HIROSE ELECTRIC CO., LTD.

APPROVED	HY. KOBAYASHI	20180219	DRAWING NO. EDC-119019-31-00
CHECKED	HY. KOBAYASHI	20180219	PART NO. LF10WBLP-12SA(31)
DESIGNED	TY. SUZUKI	20180219	
DRAWN	HM. SAITO	20180207	CODE NO. CL0136-0013-0-31 1/1