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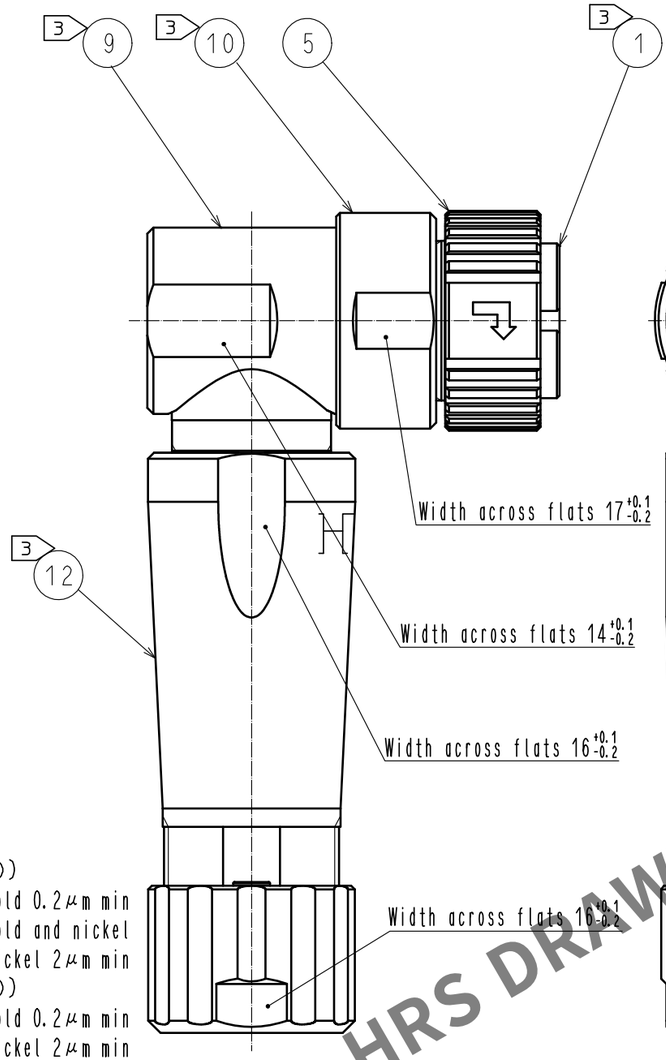
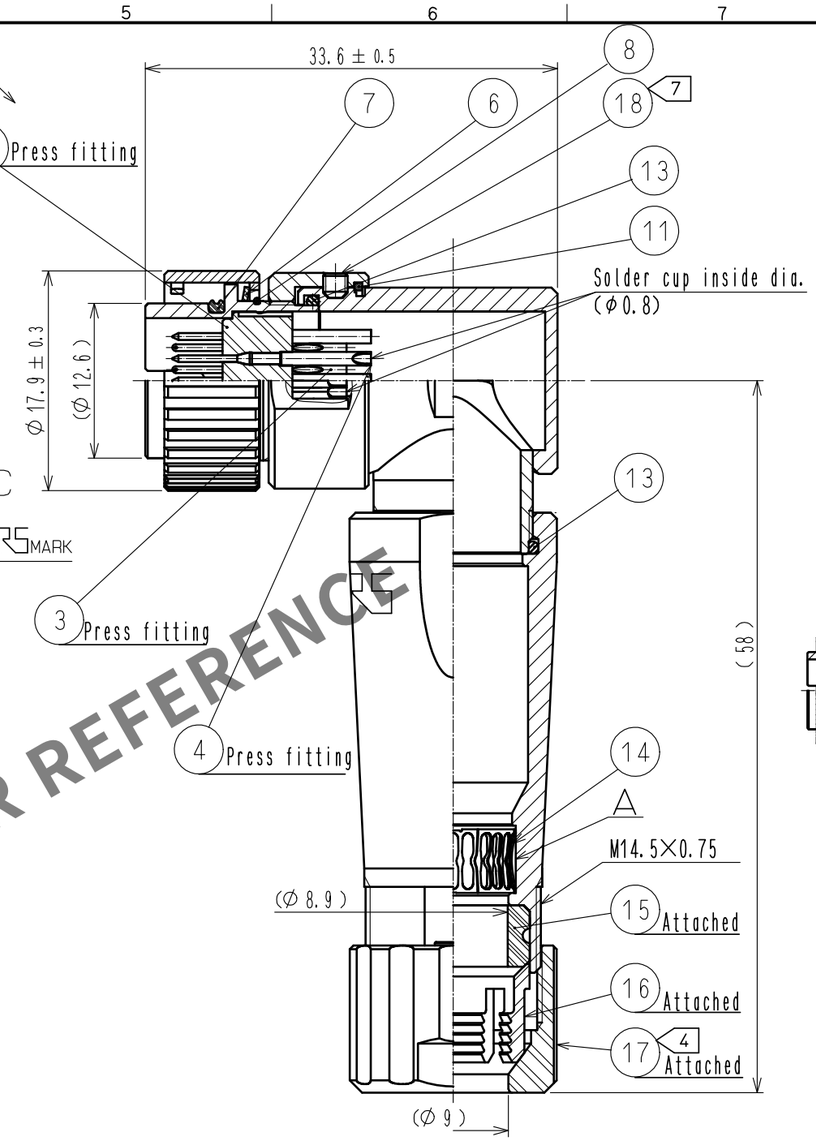
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.





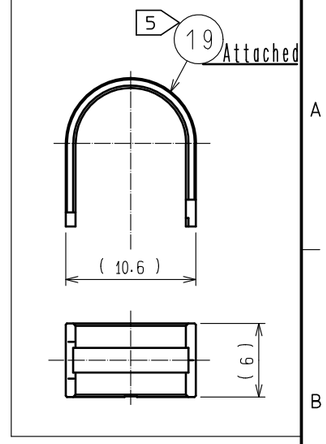
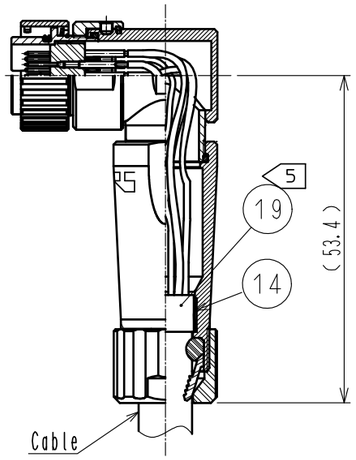


Fig.1 (1:1)



Notes
1. Plating (ref. No. ③)
   Contact area : Gold 0.2μm min
   Others : Gold and nickel
   Under plating : Nickel 2μm min
2. Plating (ref. No. ④)
   Surface area : Gold 0.2μm min
   Under plating : Nickel 2μm min
3. The recommended clamp torque of ref. No. ⑩ and ⑫ is 1.5 to 2 N·m.
   Please be sure to apply thread locker to the threaded portion of ref. No. ① and ⑨ to satisfy connector breaking strength.
   Recommended thread locker : LOCTITE 263, HENKEL JAPAN LTD.
4. The recommended clamp torque of ref.No. ⑰ is 1 to 1.5 N·m.
   Please be sure to apply thread locker and lock primer to the threaded portion M14.5 ×0.75 of ref. No. ⑫
   to prevent it from loosening.
   Recommended thread locker and lock primer : LOCTITE 263, LOCK PRIMER 7649, HENKEL JAPAN LTD.
△1 5. Attach ref.No. ⑲ to the cable with the cable crimping tool,
   and bring ref.No. ⑲ into contact with ref.No. ⑭ (Refer to Fig.1).
   Refer to the technical specification ETAD-C0404 for details.
   Applicable cable crimping tool : LF-TC-01 (CL-150-0234-6)
6. Applicable cable assembly fixture : LF13BP-T01 (CL150-0237-4)
7. The recommended clamp torque of ref. No. ⑱ is 0.12 to 0.15 N·m, and the distance between opposite sides is 0.889mm.
   Please be sure to apply thread locker and lock primer to the threaded portion of ref. No. ⑱
   to prevent ref.No. ⑱ from loosening.
   Recommended thread locker and lock primer : LOCTITE 263, LOCK PRIMER 7649, HENKEL JAPAN LTD.
8. Rotation examples of ref.No. ⑤, ⑨ and ⑩ with reference to ① are shown,
   as well as rotation examples of ref.No. ⑫ and ⑰ with reference to ⑨.
9. The cable retention strength, twisting strength, waterproof tightness, and other characteristics, may differ
   depending on the cable structure. Please confirm before 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 cup point M2×0.4×2
7	Chloroprene rubber	(Black)	17	PPS	(Natural, brown)
6	Stainless steel		16	Polyamide	(Natural, milky white)
5	Zinc alloy	Nickel plating	15	Chloroprene rubber	(Black)
4	Brass	2	14	Phosphor bronze	Nickel plating
3	Copper alloy	1	13	Chloroprene rubber	(Black)
2	PPS	(Black) UL94V-0	12	Zinc alloy	Nickel plating
1	Brass	Nickel plating	11	Phosphor bronze	Nickel plating

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	△1	1	DIS-C-00001823	KN. IKEHARA	EJ. KUNII	17.10.31

HIROSE ELECTRIC CO., LTD.

APPROVED	YH. YAMADA	17.03.08
CHECKED	HY. KOBAYASHI	17.03.08
DESIGNED	TY. SUZUKI	17.03.08
DRAWN	THOMAS FORAN	17.03.08

DRAWING NO.	EDC-119379-00-00
PART NO.	LF13WBLP-20PA
CODE NO.	CL136-0031-0-00 △1

HRS DRAWING FOR REFERENCE