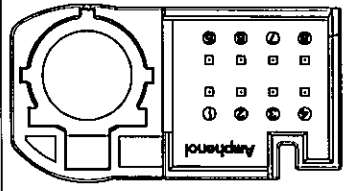
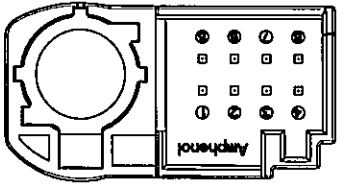
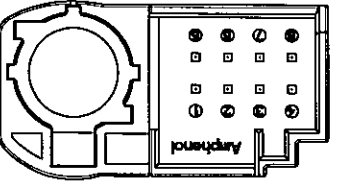
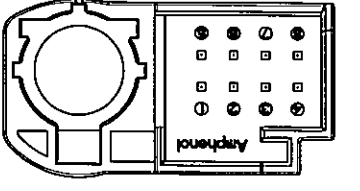
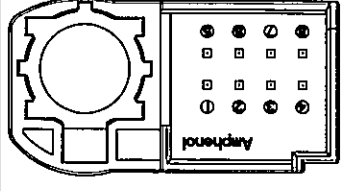


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Table 1
keys and colors

	Coding A graphite black sim. RAL9011
	Coding B natural sim. RAL9001
	Coding C light blue sim. RAL5012
	Coding D claret violet sim. RAL4004
	Coding Z water blue sim. RAL5021

Notes:
1. Material and plating:

Housing:	P41, UL94-V0, color black
Dielectric:	LCP, UL94-V0, color black
Outer contact (PCB):	Zinc alloy Tin, 2-6um, over nickel
Cover:	Stainless Steel
HSD contact:	Copper alloy Gold, 0.15um (interface); gold flash(PCB)
MOS contact:	Copper alloy Tin, 2-6um, over nickel

2. Electrical data, HSD side:

Impedance, even mode	≈ 32 Ω common mode only
Impedance, differential mode	100 Ω differential signaling, for one pair or quad cable shielded
Frequency	DC to 2.0 GHz
Return loss	≥ 20 dB to 1.0 GHz
Insertion loss	≤ 17 dB to 2.0 GHz
Skew (between signal contacts)	≤ 20 psec. (can be reduced by layout)
Near-end-Crosstalk	≤ 30 dB
Far-end-Crosstalk	≤ 35 dB
Insulation resistance	≥ 1x10 ³ MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Working voltage	500 V rms
Test voltage	100 V rms
Test current capability at 80°C	≤ 1.5 A DC
Test current capability at 80°C MOS pins	≤ 5.0 A DC (dependent on mating connector and cable)

3. Mechanical data, HSD side:

Mating cycles	≥ 25
Engagement force each contact	≤ 30 N
Disengagement force each contact	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 80 N

4. Environmental data:

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14 Test No
Temperature and humidity	USCAR 2 - 4 5.6.2
Vibration (Random)	DIN IEC 60068-2-64
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
Soldering profile	acc. to IEC 60068-2-58; Group 3&4
2011/65/EU (RoHS) compliant	

5. Packing

Standard	100 pcs in tape & reel
Weight	12.97 g/pc

6. Order P/N system:

HSD NXRRP PCB 8X
Coding: See table 1
Packing method:
A- Packing by tray
B- Packing by tray
C- Single Packing

UNLESS OTHERWISE SPECIFIED		TOLERANCES		u.s.		METRIC	
X +/-		XX +/-		XXX +/-		S	
FRACTIONS +/-		ANGLES +/°		REMOVE SHARP EDGES		DIMENSIONS	
SEE NOTES		FOR MATERIALS AND FINISHES		DRAWING FILE:		ANGLE OF PROJECTION	
DRAWN		Kaka Tong		11/21/16		DRAWING NO.	
CHECKED		0.50		0.25		0.10	
CHECKED		0.25		0.10		SIZE	
DATE		APPROVAL		SCALE		2:1	
TITLE		HSD + 8pos MOS R/A plug connector		NORTH LOCATION		DRAWING NO.	
REV.		4		SHEET		2 OF 2	

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SYN	ECN	DESCRIPTION	DATE	APPROVED
---	---	SEE SHEET 1/2	---	---

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