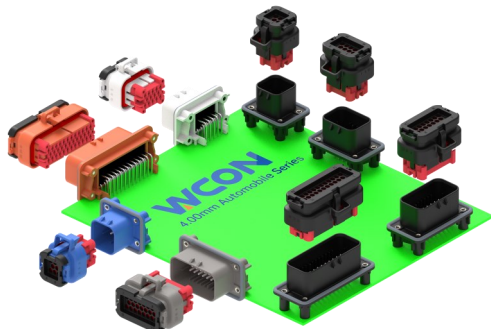


74040 Series

4.00mm pitch/Wire-to-board Waterproof automotive connectors



Overview

The 74040 product series is a 4.00mm pitch wire-to-board automotive connector featuring secondary latching structure (TPA) with high retention force and excellent contact reliability. It is suitable for high vibration and high temperature environments and complies with USCAR standards.

Features and Benefits

- Latches with acoustic and tactile feedback
- Poka-yoke design
- Multi-point contact, shock resistance, vibration resistance
- Secondary latching structure provides enhanced retention force for terminals
- Waterproof rating up to IP68 & IP69K

Product Applications

- Automotive: Body and Chassis System, Convenience System
- Industrial: Heavy-duty Transport Equipment, Special Operations Machinery, Mining Equipment, Agricultural Vehicles

Standard 标准

- QC/T 1067, USCAR-2

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PA66	Black/黑色 White/白色 Grey/灰色 Orange/橙色 Blue/蓝色	UL94V-0
Header/板端	PBT	Black/黑色 White/白色 Grey/灰色 Orange/橙色 Blue/蓝色	UL94V-0
Terminal/端子	Copper alloy 铜合金	Gold-plated/镀金 Tin-plated/镀锡	-

74040系列

4.00mm间距/线到板防水汽车连接器



Three-contact
三点接触

概述

74040产品系列是一款4.00mm间距带有双重锁扣(TPA)、高保持力、出色的接触可靠性,适用于高振动和高温环境下,符合USCAR标准的线到板汽车连接器。

产品特点

- 具有声学 and 触觉反馈的锁扣
- 防呆设计
- 多点接触、耐冲击、抗振动
- 二次锁扣结构给端子提供更高的保持力
- 防水等级可达IP68&IP69K

应用领域

- 汽车: 车身和底盘系统、便利系统
- 工业: 重载运输设备、特种作业机械、采矿设备、农业车

UL certification UL认证

- E248993

Production Specifications 产品规格

Current rating 额定电流	5-8 A	Operating temperature Range:-40° C~+125° C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -40° C~+125° C(含温升) 工作湿度范围: 20-80%	Storage temperature: Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	250V/AC		

Item 项目	Condition 条件	Specification 规格
Insulation Resistance 绝缘电阻	Measured at 1000V DC for 1 minute 测试电压: 1000V DC/1分钟	No less than 5000MΩ 不少于5000MΩ
Withstanding voltage 耐电压	Measured at 1000V AC for 1 minute 测试电压: 1000V AC/1分钟	No breakdown, no discharge, leakage current <0.5mA 无击穿、无放电、漏电流<0.5mA
Contact Resistance 接触电阻	Measured at 100mA and no higher than 20mV 用20 mV DC进行测量	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 10 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 10 mΩ 以下
Vibration Resistance 抗振动	Frequency: 60~ 1200 Hz Direction : X/Y/Z Duration : 8H/each 频率:60~1200Hz 方向:X/Y/Z 时间:8H各方向	No electrical discontinuity of 1μs or greater 试验过程中未发生1μs瞬断现象, 且外观无损伤, 电气性能正常
Temperature life 高温老化	Temperature温度:125°C Duration时间:1008H	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 10 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 10 mΩ 以下
Salt Spray 盐雾	Temperature:35± 2°C Solution concentration : 5%NaCl PHValue : 6.5 ~ 7.2 Duration : 48hours 温度: 35±2° C 溶液浓度: 5%NaCl PH值: 6.5~7.2 时间: 48小时	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 10 mΩ max. No evidence of damage. 接触电阻: 初始值 10 mΩ 以下 测试后 10 mΩ 以下
Durability(Mating/un- mating) 插拔寿命	100 cycles 循环100次	Contact resistance: Initial value/ 10 mΩ max After environmental tests/ 10 mΩ max. 接触电阻: 初始值 10 mΩ 以下 测试后 10 mΩ 以下

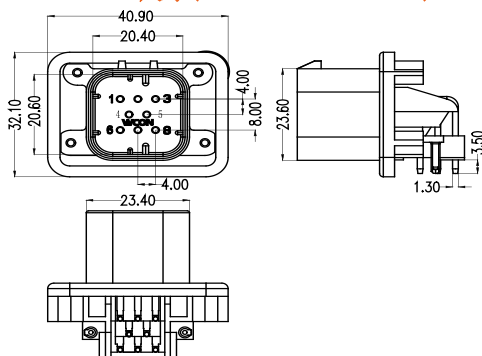
74040 Series

Order Information 订购信息

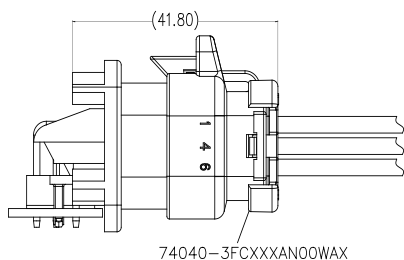
Circuit 芯数	Part number 型号					Package 包装 Qty/Tray 只/盒装	Remake 可量产状态
	Key-1	Key-2	Key-3	Key-4	Key-5		
8	74040-3MR008ABXXNA1W	74040-3MR008ABXXNA2W	/	/	/	45	*
14	74040-3MR014ABXXNA1W	74040-3MR014ABXXNA2W	74040-3MR014ABXXNA3W	74040-3MR014ABXXNA4W	/	40	*
23	74040-3MR023ABXXNA1W	74040-3MR023ABXXNA2W	74040-3MR023ABXXNA3W	74040-3MR023ABXXNA4W	/	30	*
35	74040-3MR035ABXXNA1W	74040-3MR035ABXXNA2W	74040-3MR035ABXXNA3W	74040-3MR035ABXXNA4W	74040-3MR035ABXXNA5W	25	*

Note: * stands for mass production. 注: *代表可量产

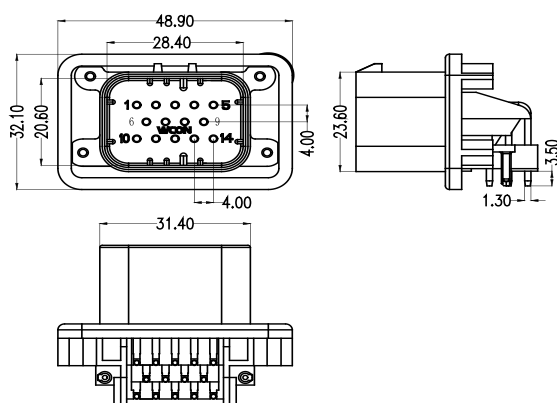
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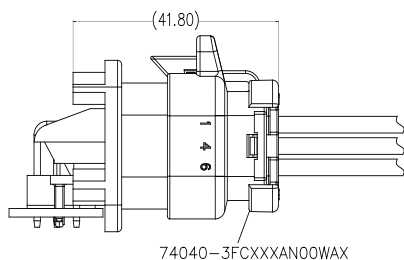
Assembly Schematic 装配示意



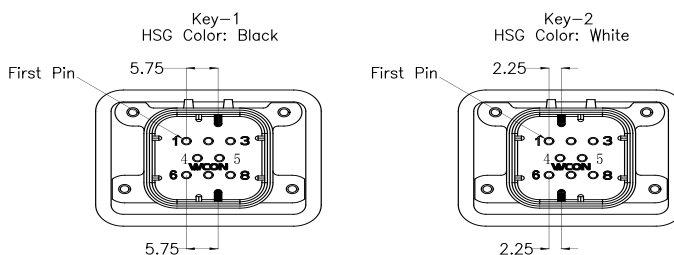
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Assembly Schematic 装配示意

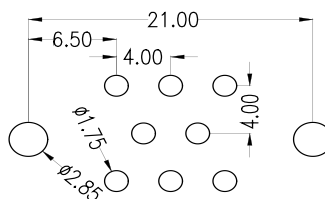


Key Layout Guide 键位说明

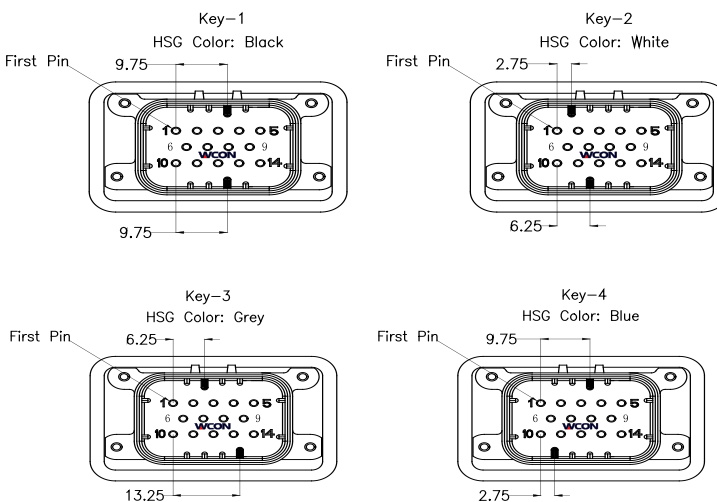


PCB Layout 印刷电路板布局

DIP type 通孔焊接型

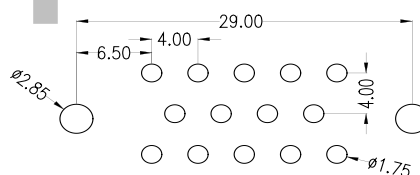


Key Layout Guide 键位说明

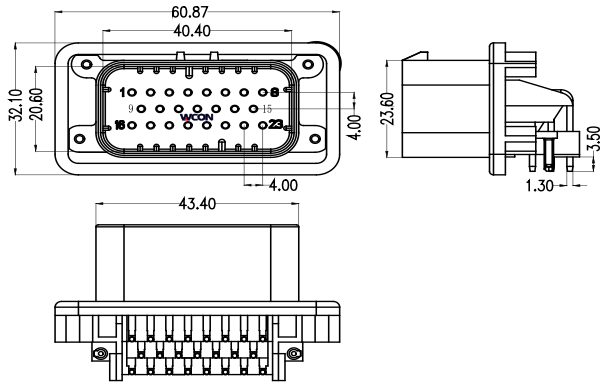


PCB Layout 印刷电路板布局

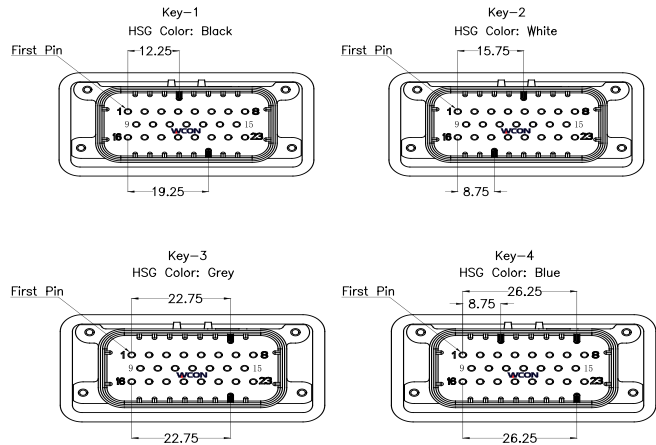
DIP type 通孔焊接型



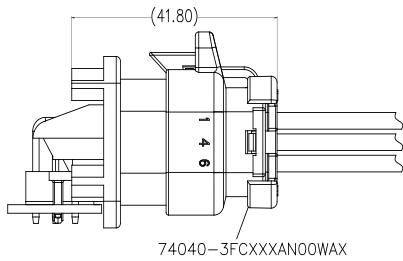
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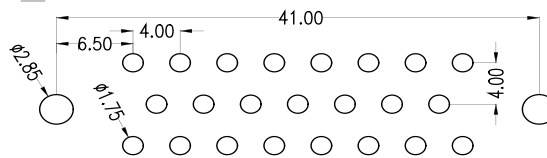


Assembly Schematic 装配示意

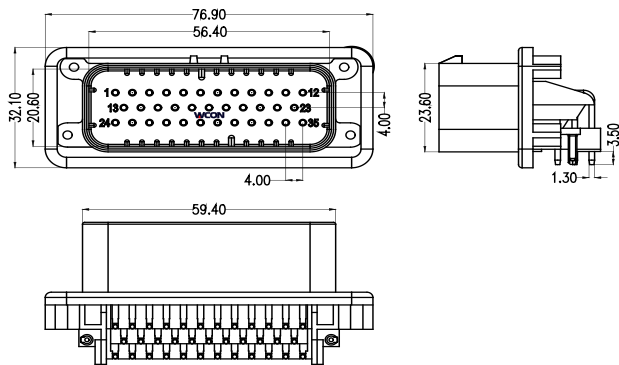


PCB Layout 印刷电路板布局

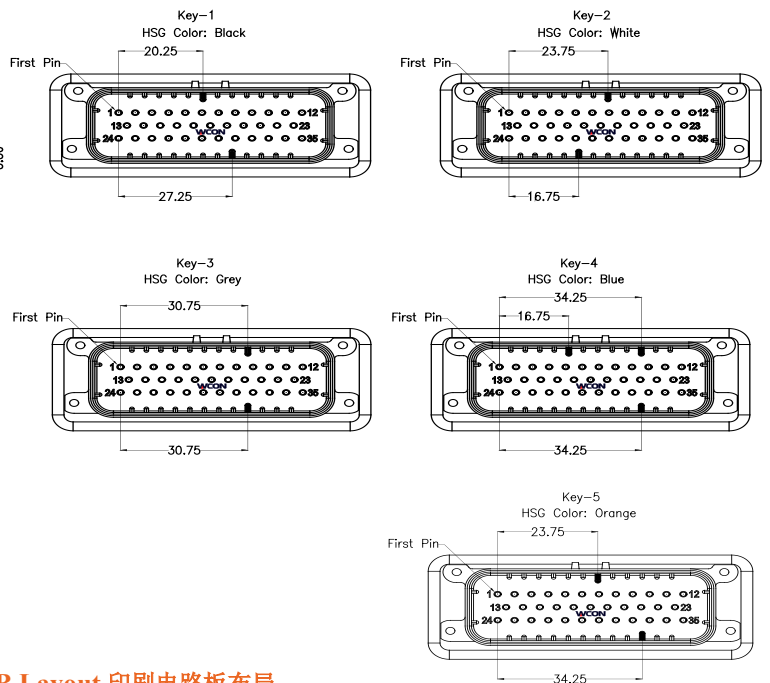
DIP type 通孔焊接型



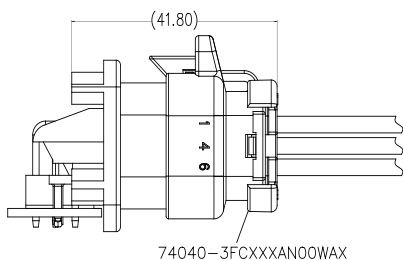
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Key Layout Guide 键位说明

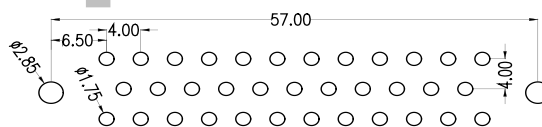


Assembly Schematic 装配示意



PCB Layout 印刷电路板布局

DIP type 通孔焊接型



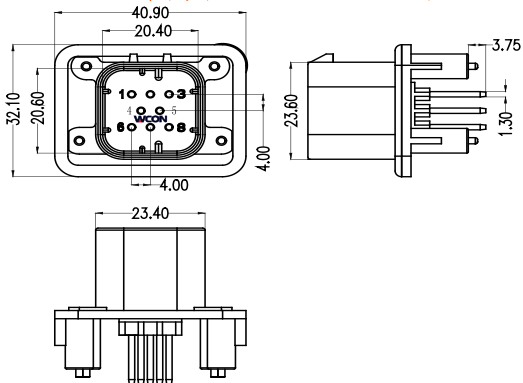
74040 Series

Order Information 订购信息

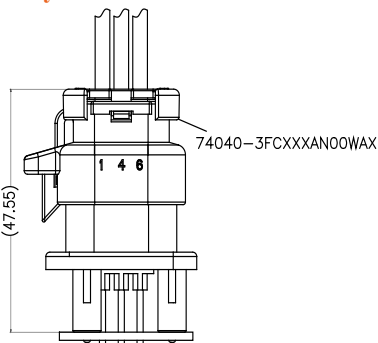
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	Key-1	Key-2	Key-3	Key-4	Key-5		
8	74040-3MS008ABXXNA1W	74040-3MS008ABXXNA2W	/	/	/	45	*
14	74040-3MS014ABXXNA1W	74040-3MS014ABXXNA2W	74040-3MS014ABXXNA3W	74040-3MS014ABXXNA4W	/	40	*
23	74040-3MS023ABXXNA1W	74040-3MS023ABXXNA2W	74040-3MS023ABXXNA3W	74040-3MS023ABXXNA4W	/	30	*
35	74040-3MS035ABXXNA1W	74040-3MS035ABXXNA2W	74040-3MS035ABXXNA3W	74040-3MS035ABXXNA4W	74040-3MS035ABXXNA5W	25	*

Note: * stands for mass production. 注: *代表可量产

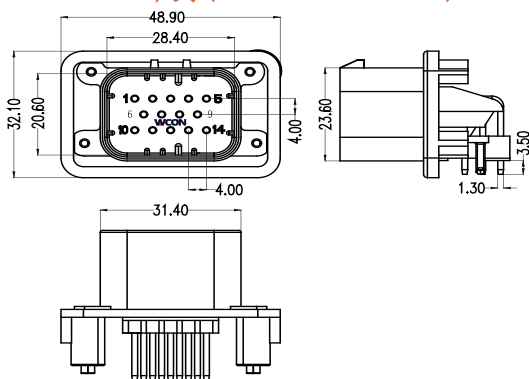
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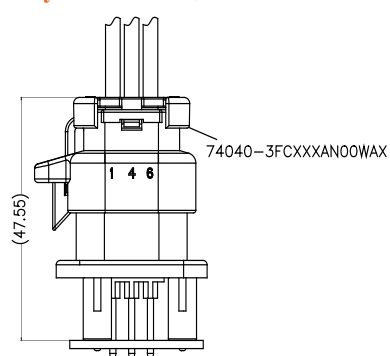
Assembly Schematic 装配示意



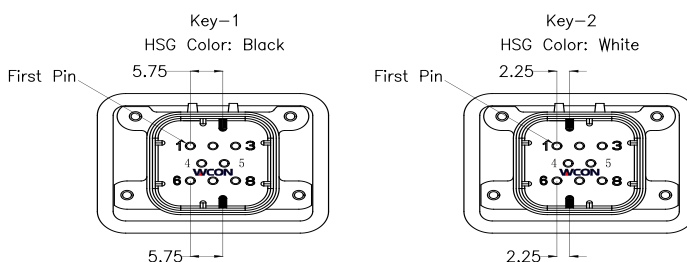
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Assembly Schematic 装配示意

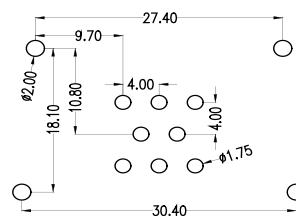


Key Layout Guide 键位说明

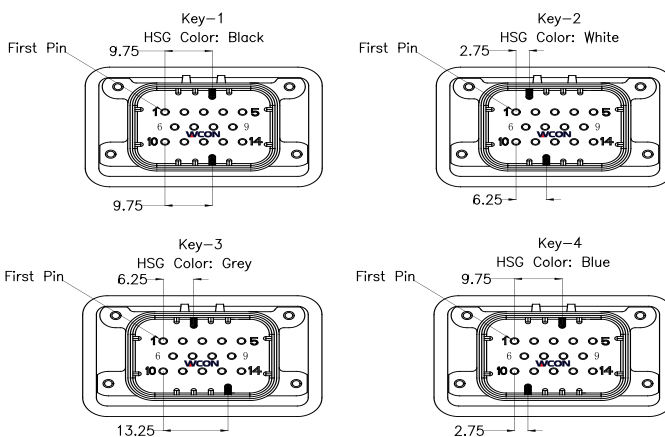


PCB Layout 印刷电路板布局

DIP type 通孔焊接型

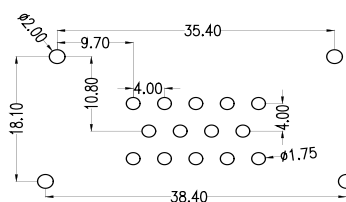


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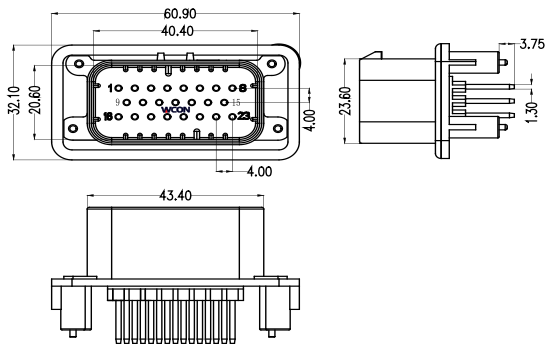


PCB Layout 印刷电路板布局

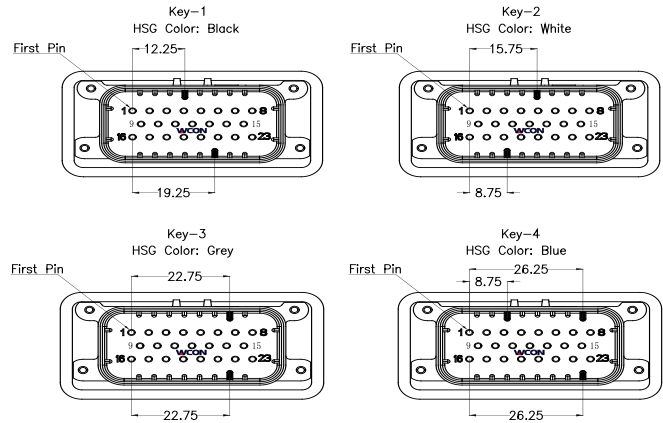
DIP type 通孔焊接型



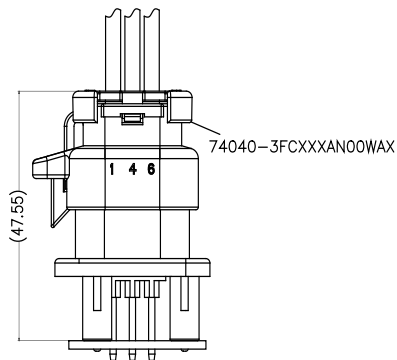
Dimensions 尺寸 (23P S/T DIP Upgraded)



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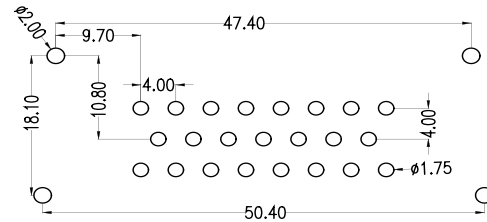


Assembly Schematic 装配示意

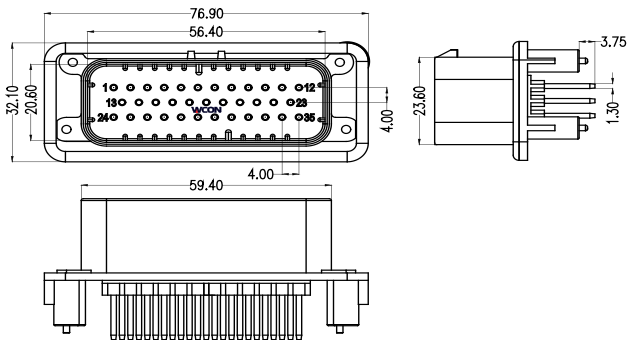


PCB Layout 印刷电路板布局

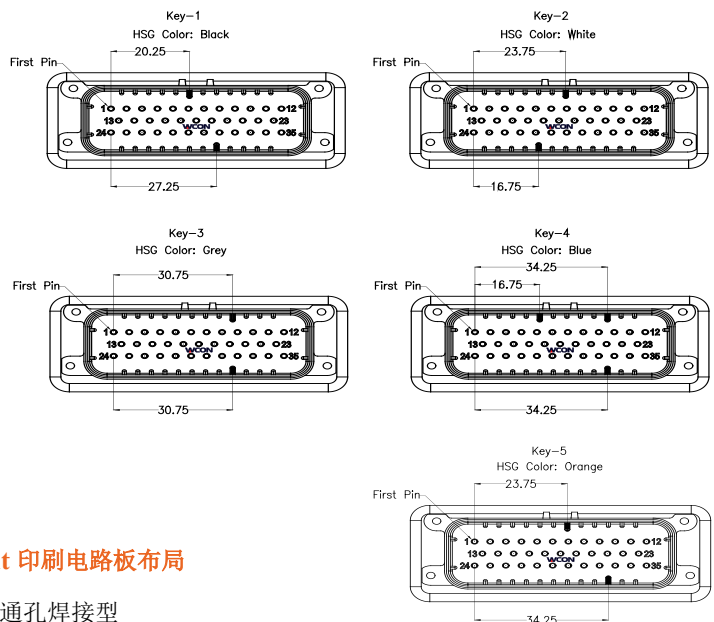
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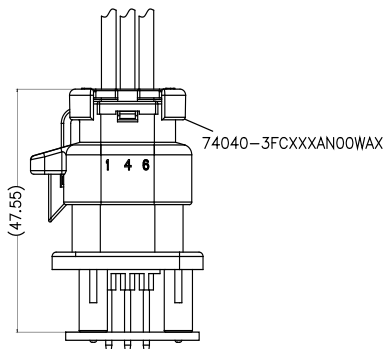
Dimensions 尺寸 (35P S/T DIP Upgraded)



Key Layout Guide 键位说明

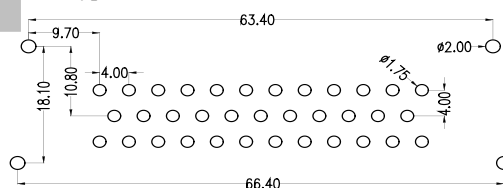


Assembly Schematic 装配示意



PCB Layout 印刷电路板布局

DIP type 通孔焊接型



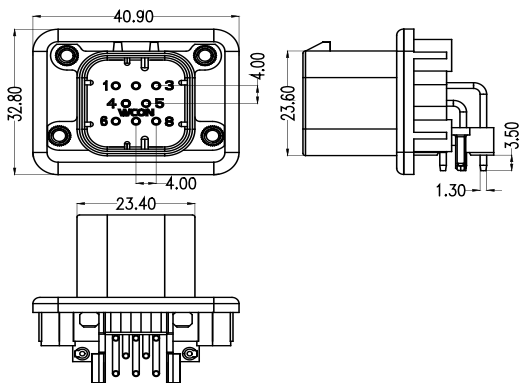
74040 Series

Order Information 订购信息

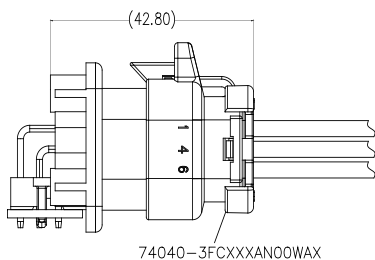
Circuit 芯数	Part number 型号					Package 包装 Qty/Tray 只/盒装	Remake 可量产状态
	Key-1	Key-2	Key-3	Key-4	Key-5		
8	74040-3MR008ABXXJA1W	74040-3MR008ABXXJA2W	/	/	/	45	*
14	74040-3MR014ABXXJA1W	74040-3MR014ABXXJA2W	74040-3MR014ABXXJA3W	74040-3MR014ABXXJA4W	/	40	*
23	74040-3MR023ABXXJA1W	74040-3MR023ABXXJA2W	74040-3MR023ABXXJA3W	74040-3MR023ABXXJA4W	/	30	*
35	74040-3MR035ABXXJA1W	74040-3MR035ABXXJA2W	74040-3MR035ABXXJA3W	74040-3MR035ABXXJA4W	74040-3MR035ABXXJA5W	25	*

Note: * stands for mass production. 注: *代表可量产

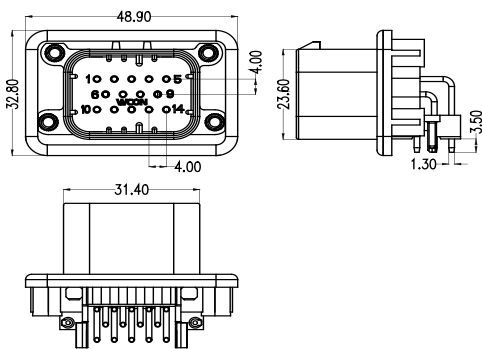
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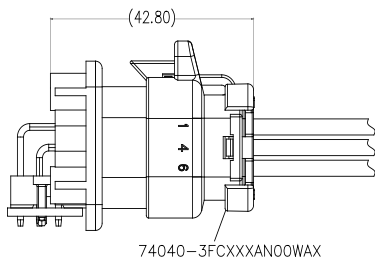
Assembly Schematic 装配示意



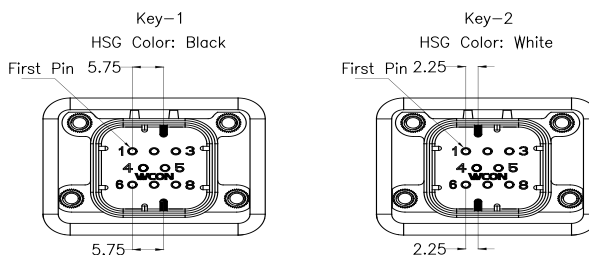
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Assembly Schematic 装配示意

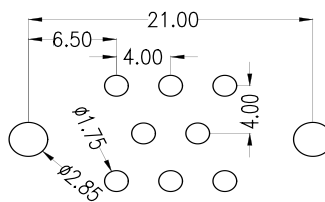


Key Layout Guide 键位说明

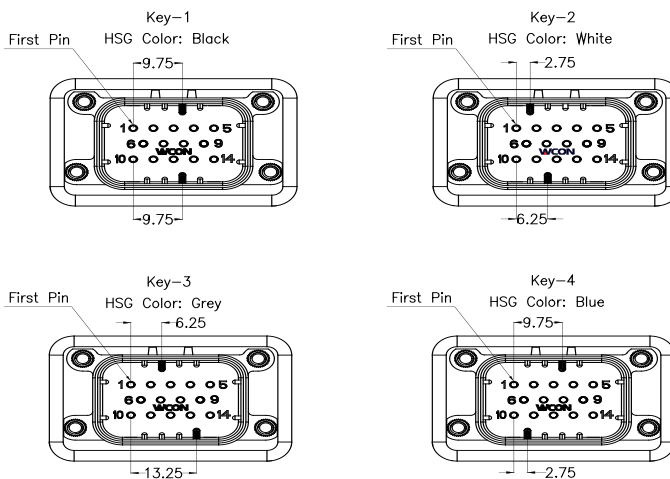


PCB Layout 印刷电路板布局

DIP type 通孔焊接型

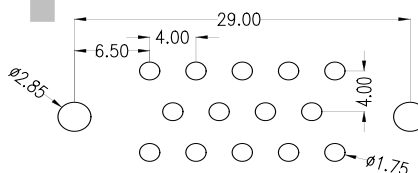


Key Layout Guide 键位说明



PCB Layout 印刷电路板布局

DIP type 通孔焊接型



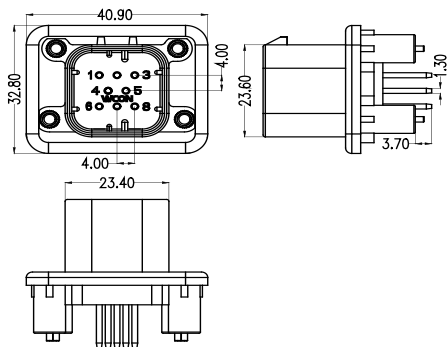
74040 Series

Order Information 订购信息

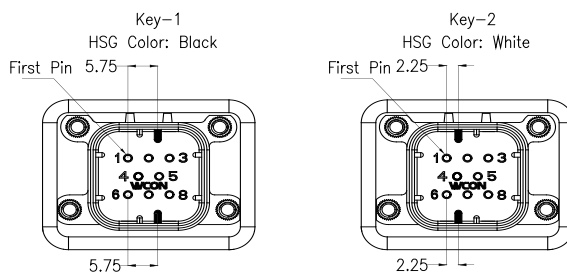
Circuit 芯数	Part number 型号					Package 包装 Qty/Tray 只/盒装	Remake 可量产状态
	Key-1	Key-2	Key-3	Key-4	Key-5		
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14	74040-3MS014ABXXJA1W	74040-3MS014ABXXJA2W	74040-3MS014ABXXJA3W	74040-3MS014ABXXJA4W	/	40	*
23	74040-3MS023ABXXJA1W	74040-3MS023ABXXJA2W	74040-3MS023ABXXJA3W	74040-3MS023ABXXJA4W	/	30	*
35	74040-3MS035ABXXJA1W	74040-3MS035ABXXJA2W	74040-3MS035ABXXJA3W	74040-3MS035ABXXJA4W	74040-3MS035ABXXJA5W	25	*

Note: * stands for mass production. 注: *代表可量产

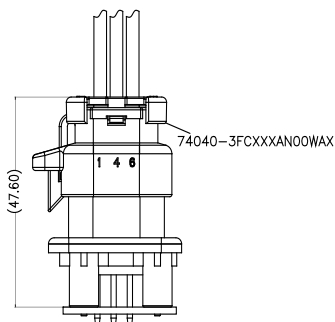
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Key Layout Guide 键位说明

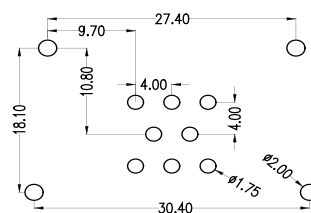


Assembly Schematic 装配示意

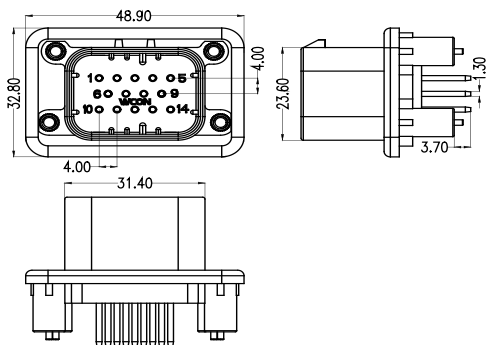


PCB Layout 印刷电路板布局

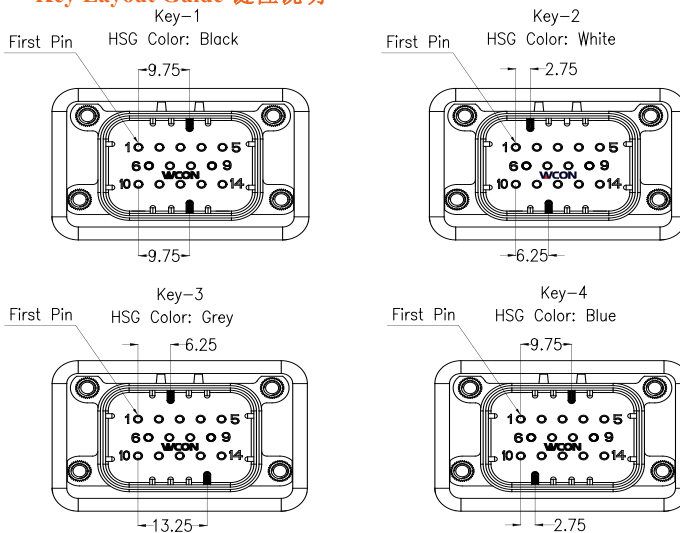
DIP type 通孔焊接型



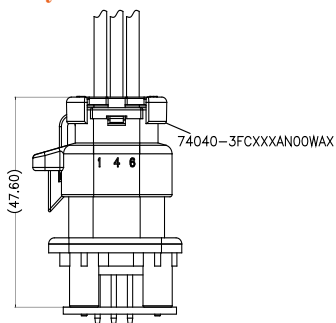
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Key Layout Guide 键位说明

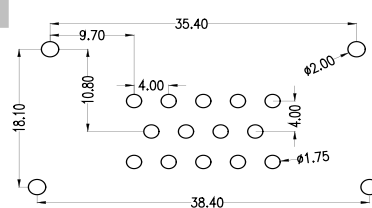


Assembly Schematic 装配示意

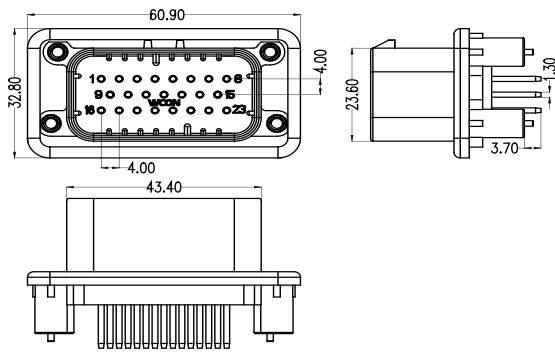


PCB Layout 印刷电路板布局

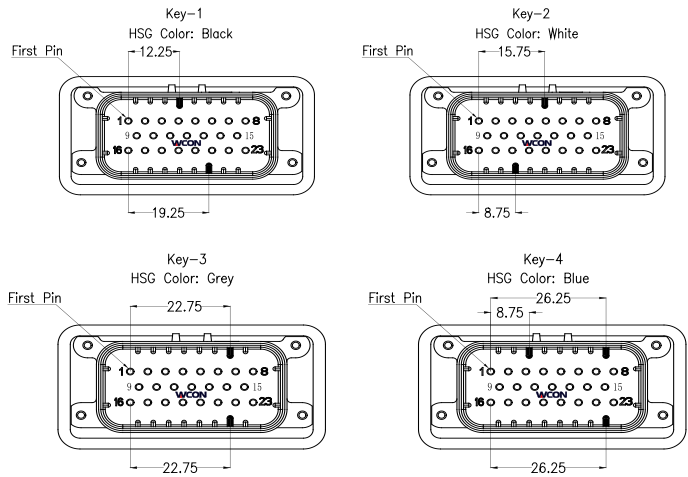
DIP type 通孔焊接型



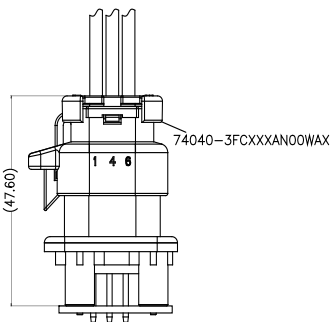
Dimensions 尺寸 (23P S/T DIP Upgraded)



Key Layout Guide 键位说明

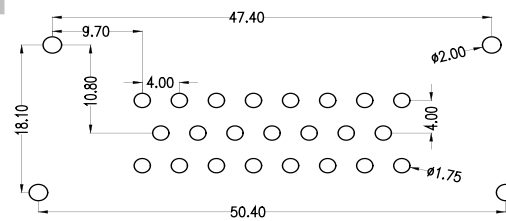


Assembly Schematic 装配示意

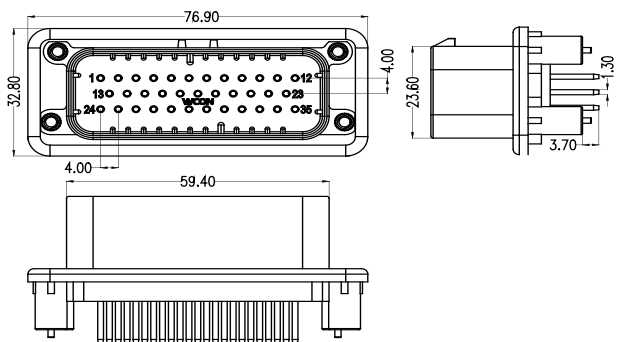


PCB Layout 印刷电路板布局

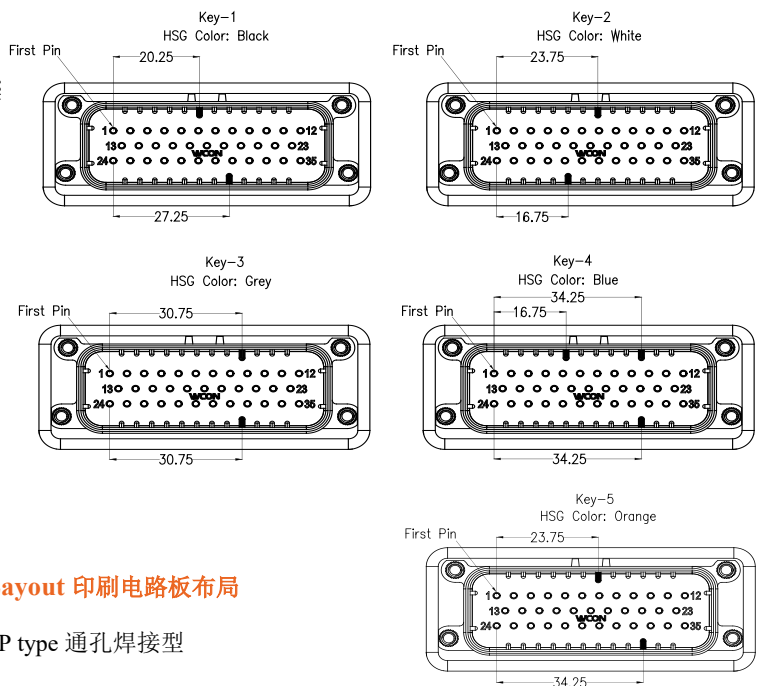
DIP type 通孔焊接型



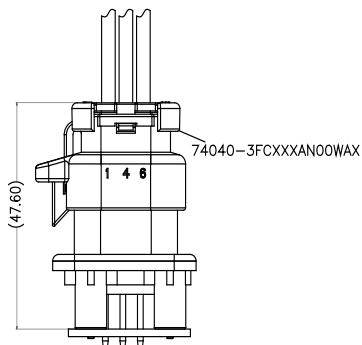
Dimensions 尺寸 (35P S/T DIP Upgraded)



Key Layout Guide 键位说明

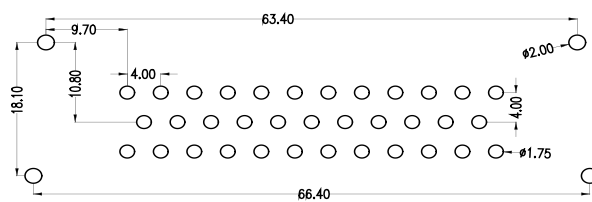


Assembly Schematic 装配示意



PCB Layout 印刷电路板布局

DIP type 通孔焊接型



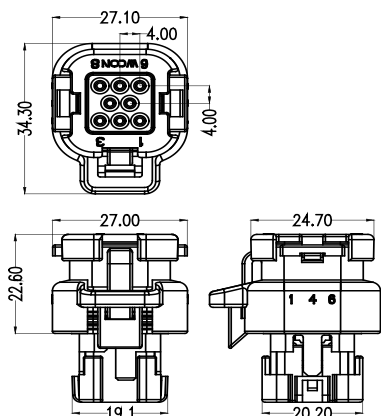
74040 Series

Order Information 订购信息

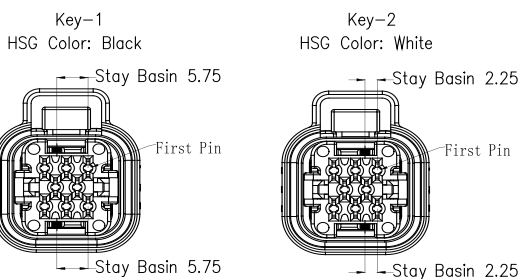
Circuit 芯数	Part number 型号					Package 包装 Qty/Tray 只/盒装	Remake 可量产状态
	Key-1	Key-2	Key-3	Key-4	Key-5		
8	74040-3FC008AN00WA1(W)	74040-3FC008AN00WA2(W)	/	/	/	70	*
14	74040-3FC014AN00WA1(W)	74040-3FC014AN00WA2(W)	74040-3FC014AN00WA3(W)	74040-3FC014AN00WA4(W)	/	55	*
23	74040-3FC023AN00WA1(W)	74040-3FC023AN00WA2(W)	74040-3FC023AN00WA3(W)	74040-3FC023AN00WA4(W)	/	40	*
35	74040-3FC035AN00WA1(W)	74040-3FC035AN00WA2(W)	74040-3FC035AN00WA3(W)	74040-3FC035AN00WA4(W)	74040-3FC035AN00WA5(W)	30	*

Note: * stands for mass production . 注: *代表可量产

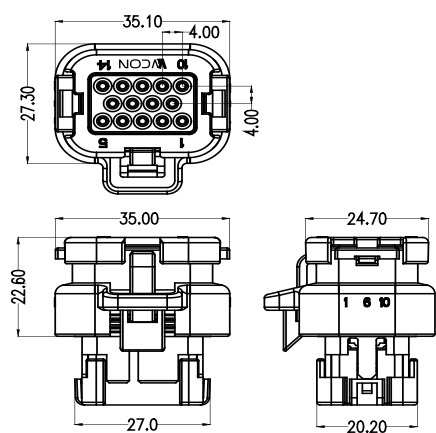
Dimensions 尺寸 (8P)



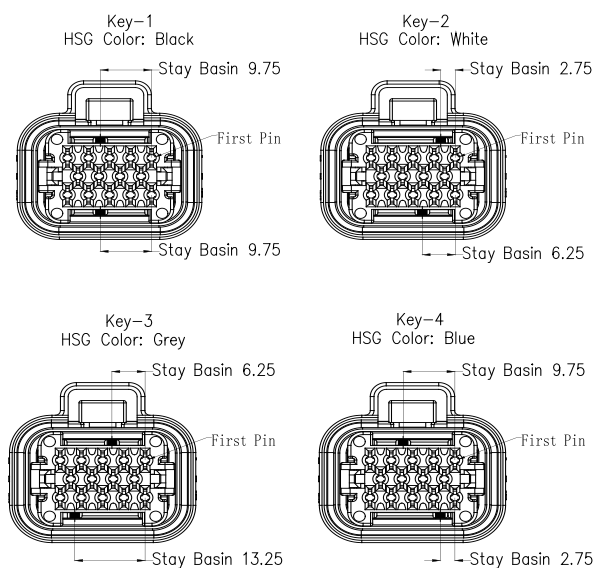
Key Layout Guide 键位说明



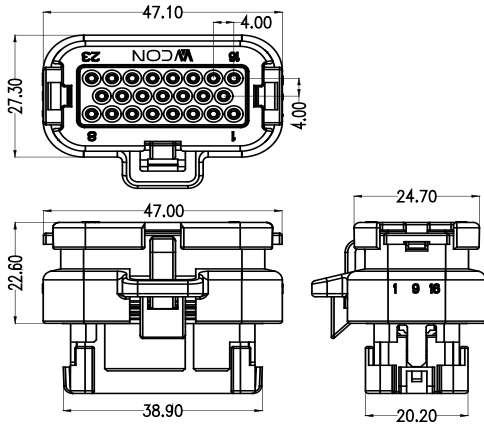
Dimensions 尺寸 (14P)



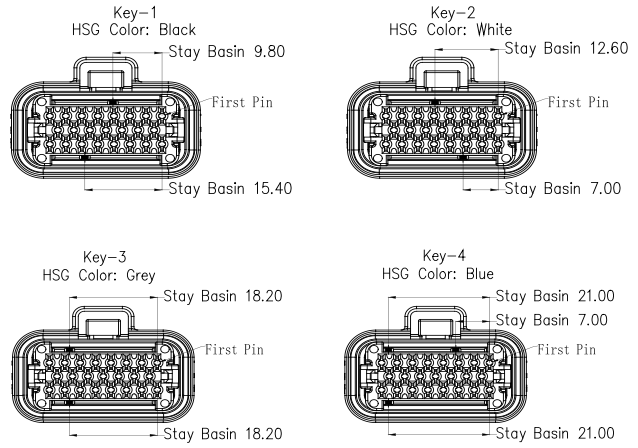
Key Layout Guide 键位说明



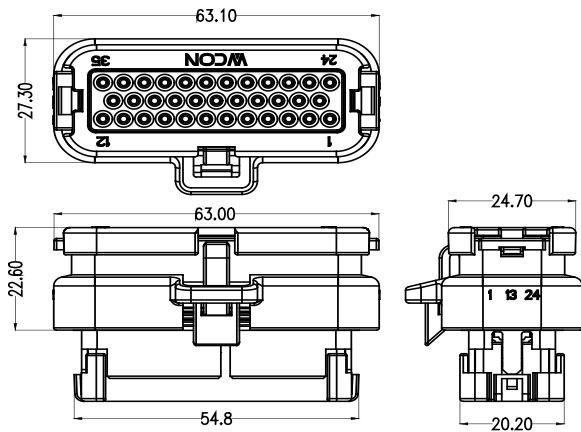
Dimensions 尺寸 (23P)



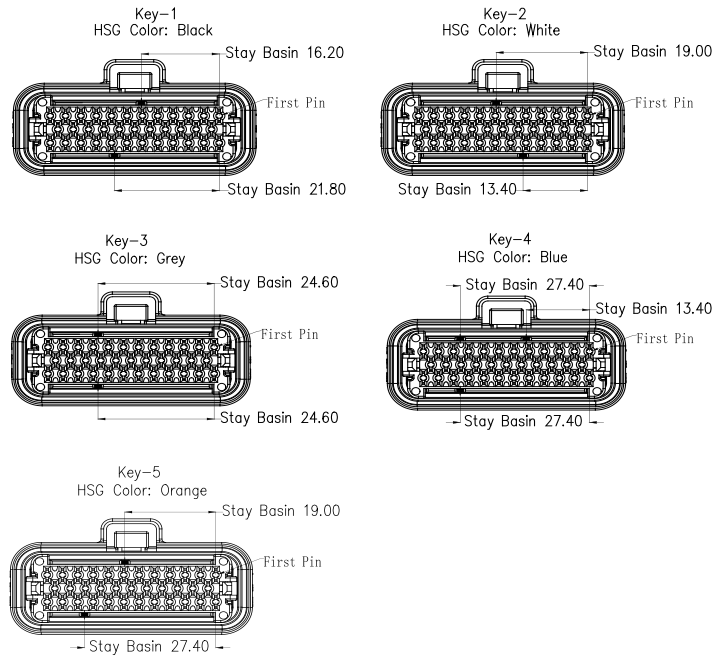
Key Layout Guide 键位说明



Dimensions 尺寸 (35P)

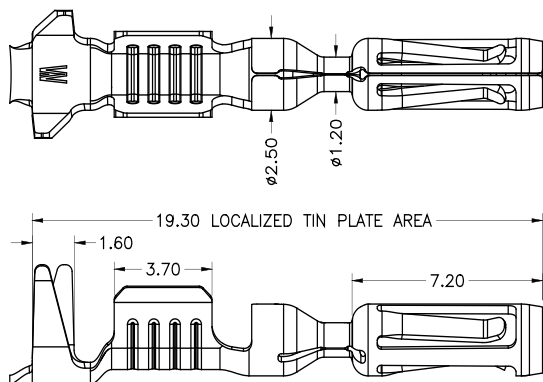


Key Layout Guide 键位说明



74040 Series

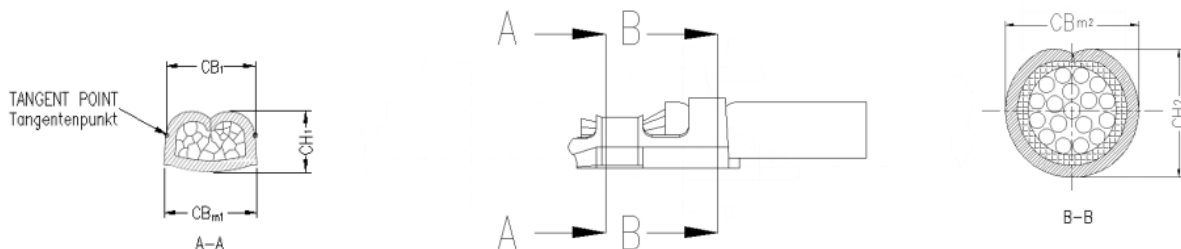
Adaptor Terminal 适配端子



Part number 型号	Suitable wire diameter 适配线径
T72XXS-C193CXXXXW	16~22AWG
T72XXS-C193P1XXXXW	

Terminal Crimping Specification 端子压接规范

型号 Model number	电线类型 Wire type	电线规格 Wire size	线缆 OD (mm) Cable OD (mm)	剥线长度 (mm) Strip length (mm)	导体铆压 (A-A) Conductor crimp			绝缘体铆压 (B-B) Insulation crimp	
					压接宽度CB1 Crimping width CB1±0.03mm	压接宽度CBm1 Crimping height CBm1+0.03mm	压接高度 Crimping height CH1±0.03mm	压接宽度CBm2 Crimping width CBm2±0.05mm	压接高度CH2 Crimping height CH2±0.08mm
T72XXS-C193CX01 XW	UL3398	16#AWG	2.40	5.00±0.10	2.30	2.30	1.50	3.00	2.65
	UL1061	18#AWG	1.80	5.00±0.10	2.25	2.25	1.40	2.90	2.40
T72XXS-C193P1XX 01W	UL3398	20#AWG	1.80	5.00±0.10	1.33	1.33	2.03	2.80	2.30
T72XXS-C193CX02 XW	UL1332	20#AWG	1.60	5.00±0.10	1.84	1.84	0.96	2.06	1.86
T72XXS-C193P1XX 02W	UL1332	22#AWG	1.40	5.00±0.10	1.84	1.84	0.96	2.06	1.86



Model Numbering 型号命名

74040	-	3	M	X	XXX	A	B	XX	X	A	X
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
(1) Series (系列): 4.00mm Series						(7) Contact Material (触点材料): B=Brass					
(2) Number of rows (排数): 3=Three Row						(8) Contact Plating (电镀): SM=Matte Sn, SN=Sn Plated, G0=1u" Gold, G3=10u" Gold					
(3) Model(型号): M=Male						(9) N=Standard, J=Upgraded					
(4) Terminal type(端子形态): S=S/T DIP, R=R/A DIP						(10) Packing(包装): A=Tray					
(5) Positions(位数): 008=8P, 014=14P, 023=23P, 035=35P						(11) Running number(流水码): 1=Key-1, 2=Key-2, 3=Key-3, 4=Key-4, 5=Key-5					
(6) Material(材料): A=PBT											

74040	-	3	F	C	XXX	A	N	00	W	A	X
(1)		(2)	(3)	(4)	(5)	(6)				(7)	(8)
(1) Series (系列): 4.00mm Series						(5) Positions (位数): 008=8P, 014=14P, 023=23P, 035=35P					
(2) Number of rows (排数): 3=Three Row						(6) Material (材料): A=PBT					
(3) Model(型号): F=Female						(7) Packing(包装): A=Tray					
(4) Type of Assemble Cable(组装电缆类型): C=Crimp						(8) Running number(流水码): 1=Key-1, 2=Key-2, 3=Key-3, 4=Key-4, 5=Key-5					

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