

### Overview

WF3965 is a 3.96mm pitch wire-to-board connector with a compact size and high integration. It offers horizontal and vertical mounting options on the board end and is suitable for consumer and communications industries.

### Features and Benefits

- Small size, high integration
- Friction lock structure ensures more reliable connection
- Provides horizontal and vertical installation

### Product Applications

- Industrial: Testing equipment
- Consumer: Fitness equipment, home appliance control
- Communications: Office equipment

### Standard 标准

- EIA-364

### 概述

WF3965是一款3.96mm间距线到板连接器，产品体积小、集成度高，且板端提供水平及垂直方向插板安装，适用于消费类以及通信类等行业。

### 产品特点

- 产品小，集成度高
- 带摩擦锁结构，确保连接更可靠
- 提供水平及垂直方向安装

### 应用领域

- 工业：检测设备
- 消费：健身器材、家电控制
- 通信：办公设备

### UL certification UL认证

- E248993

### Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PA66	White/白色	UL94V-0
Header/板端	PA66/PA46	White/白色 Black/黑色 Natural/本色 Beige/米色	UL94V-0
Terminal/端子	Brass 黄铜 (C2680) Phosphor bronze 磷铜 (C5191)	Gold-plated/镀金 Tin-plated/镀锡	/

Production Specifications 产品规格

Current rating 额定电流	5.0A	Operating Temperature Range:-40°C~+105°C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -40°C~+105°C(含温升) 工作湿度范围: ≤80%	Storage temperature: Humidity: 储存温度: 25±5°C 储存湿度: ≤60%
Voltage rating 额定电压	400V		

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 1000MΩ 不少于1000MΩ
Withstanding voltage 耐电压	Measured at 1500V AC for 1 minute 测试电压: 1500V AC/1分钟	No breakdown, no discharge, leakage current <0.5 mA 无击穿、无放电、漏电流<0.5 mA
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/ 20 mΩ max After environmental tests/ 30 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下
Vibration Resistance 抗振动	Frequency : 50 ~ 2000 Hz PSD value : 5.35Gms minimum Duration : 15 minutes/axis Times : Each of three mutually perpendicular planes. 频率: 50 ~ 2000 Hz PSD 值: 5.35Gms minimum 时长: 15分钟/轴 次数: 三个相互垂直的平面中的每一个	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
Humidity (Steady state) 湿度	Temperature : 25~65°C Humidity: 90 ~95% (R.H) Duration : 96 hours 温度: 25~65° C 湿度: 90 ~95% (R.H) 时间: 96小时	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 30 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下
Salt Spray 盐雾	Temperature:35#2°C Humidity:95~98%(R.H) PHValue : 6.5 ~ 7.2 Duration : 12 hours 温度: 35±2° C 湿度: 95~98%(R.H) PH值: 6.5~7.2 时间: 12 H	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 30 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下
Durability(Mating/un-mating) 插拔寿命	30 cycles 循环30次	Contact resistance: Initial value/ 20 mΩ max After environmental tests/ 30 mΩ max. 接触电阻: 初始值 20 mΩ 以下 测试后 30 mΩ 以下

PCB Layout 印刷电路板布局

Through-hole type 通孔型

S/T DIP (R/A DIP)



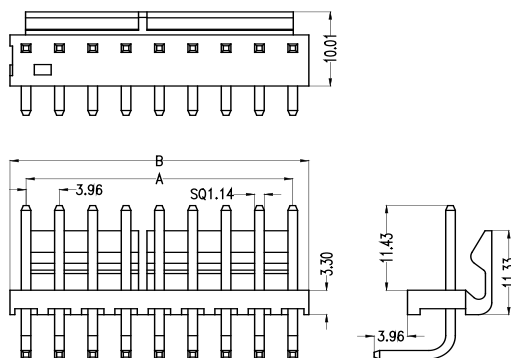
# WF3965 Series

## Order Information 订购信息

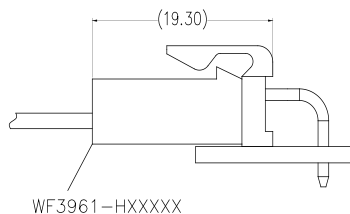
Circuit 芯数	Part number 型号		Dimensions 尺寸 (mm)		Package 包装 Q'ty/Reel 只/卷装		Remake 可量产状态
	R/A DIP	S/T DIP	A	B	R/A DIP	S/T DIP	
2	WF3965-WR(H)02X01	WF3965-WS(H)02X01	3.96	7.78	120	110	*
3	WF3965-WR(H)03X01	WF3965-WS(H)03X01	7.92	11.74	120	110	*
4	WF3965-WR(H)04X01	WF3965-WS(H)04X01	11.88	15.70	120	110	*
5	WF3965-WR(H)05X01	WF3965-WS(H)05X01	15.84	19.66	120	110	*
6	WF3965-WR(H)06X01	WF3965-WS(H)06X01	19.80	23.62	120	110	*
7	WF3965-WR(H)07X01	WF3965-WS(H)07X01	23.76	27.58	120	110	*
8	WF3965-WR(H)08X01	WF3965-WS(H)08X01	27.72	31.54	120	110	
9	WF3965-WR(H)09X01	WF3965-WS(H)09X01	31.68	35.50	120	110	
10	WF3965-WR(H)10X01	WF3965-WS(H)10X01	35.64	39.46	120	110	*
11	WF3965-WR(H)11X01	WF3965-WS(H)11X01	39.60	43.42	120	110	
12	WF3965-WR(H)12X01	WF3965-WS(H)12X01	43.56	47.38	120	110	*
13	WF3965-WR(H)13X01	WF3965-WS(H)13X01	47.52	51.34	120	110	*
14	WF3965-WR(H)14X01	WF3965-WS(H)14X01	51.48	55.30	120	110	
15	WF3965-WR(H)15X01	WF3965-WS(H)15X01	55.44	59.26	120	110	*
16	WF3965-WR(H)16X01	WF3965-WS(H)16X01	59.40	63.22	120	110	
17	WF3965-WR(H)17X01	WF3965-WS(H)17X01	63.36	67.18	120	110	
18	WF3965-WR(H)18X01	WF3965-WS(H)18X01	67.32	71.14	120	110	*

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

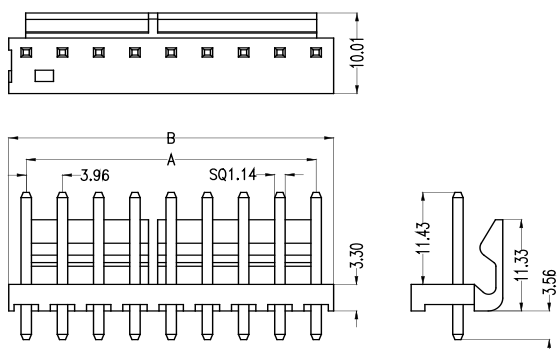
### Dimensions 尺寸 (R/A)



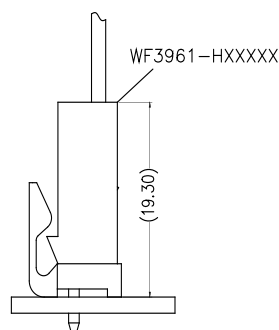
### Assembly Schematic 装配示意



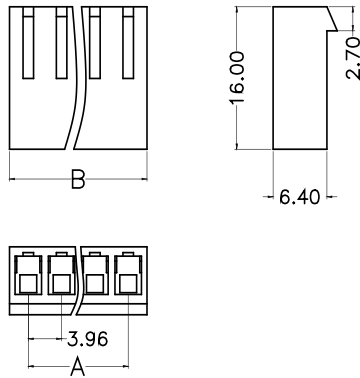
### Dimensions 尺寸 (S/T)



### Assembly Schematic 装配示意



Dimensions 尺寸

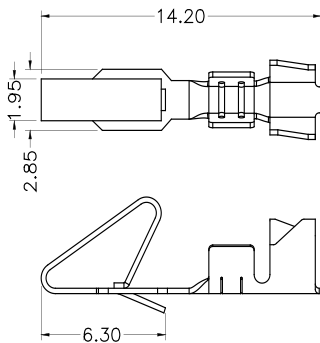


Order Information 订购信息

Circuit 芯数	Part number 型号	Dimensions 尺寸 (mm)		Package 包装 Q'ty/Bag 只/袋 装	Remake 可量产状态
		A	B		
2	WF3961-H02W01	3.96	8.22	1000	*
3	WF3961-H03W01	7.92	12.18	1000	*
4	WF3961-H04W01	11.88	16.14	1000	*
5	WF3961-H05W01	15.84	20.10	1000	*
6	WF3961-H06W01	19.80	24.06	1000	*
7	WF3961-H07W01	23.76	28.02	1000	*
8	WF3961-H08W01	27.72	31.98	1000	*
9	WF3961-H09W01	31.68	35.94	1000	*
10	WF3961-H10W01	35.64	39.90	1000	*
11	WF3961-H11W01	39.60	43.86	1000	
12	WF3961-H12W01	43.56	47.82	1000	*
13	WF3961-H13W01	47.52	51.78	1000	
14	WF3961-H14W01	51.48	55.74	1000	*
15	WF3961-H15W01	55.44	59.70	1000	

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

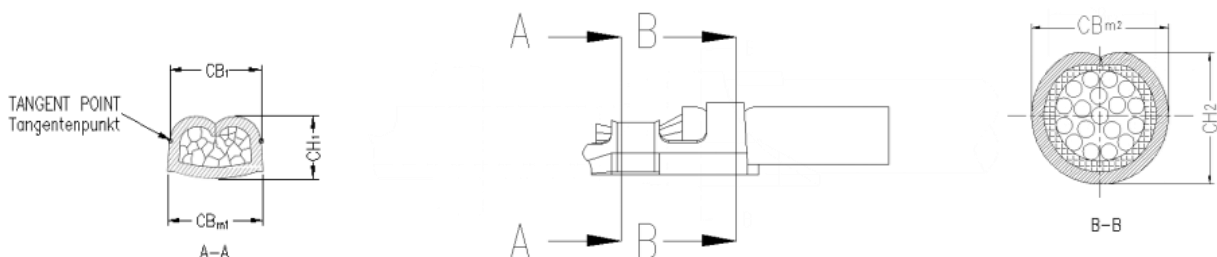
Adaptor Terminal 适配端子



Part number 型号	Suitable wire diameter 适配线径
WF3961-TXXX01	18~20AWG

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 ID Cable ID (mm)	剥线长度 Strip length (mm)	导体铆压 (A-A) Conductor crimp			导体铆压 (B-B) Conductor crimp	
					压接宽度CB1 Crimping width CB1±0.03mm	压接宽度 CBm1 Crimping height CBm1+0.05mm	压接高度 CH1±0.03mm	压接宽度CBm2 Crimping width CBm2±0.05mm	压接高度CH2 Crimping height CH2±0.08mm
WF3961-TXXX01	UL1007	18AWG	2.10±0.1	3.2±0.1	1.79	1.79	1.18	2.40	2.40
	UL1007	20AWG	1.80±0.1	3.2±0.1	1.76	1.76	1.04	2.20	2.20



## WF3965 Series

### Model Numbering 型号命名

<b>WF3965</b>	-	<b>XX</b>	<b>(H)</b>	<b>XX</b>	<b>XX</b>	<b>X</b>	<b>0</b>	<b>1</b>
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1) Series (系列): Wafer 3.96mm Series					(5) Contact Plating (电镀): Blank=Tin、S2=5 u" Gold /Tin、S3=10u" Gold /Tin、G2=5u" Gold、G3=10u" Gold			
(2) Terminal type (端子形态): WS=S/T DIP、WR=R/A DIP					(6) Color (颜色): B=Black、T=Natural、W=White、E= Beige			
(3) Material (材料): H=PA46、Blank=PA66					(7) Packing (包装): 0=PE Bag			
(4) Positions (位数): 02=2P.....18=18P					(8) Running number (流水码)			

<b>WF3961</b>	-	<b>H</b>	<b>XX</b>	<b>W</b>	<b>0</b>	<b>1</b>
(1)		(2)	(3)	(4)	(5)	(6)
(1) Series (系列): Wafer 3.96mm Series			(4) Color (颜色): W=White			
(2) Number of rows (排数): H=Crimp Type Housing			(5) Packing (包装): 0=PE Bag			
(3) Positions (位数): 02=2P.....15=15P			(6) Running number (流水码)			

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