

技术规格书/Technical Specification

YG1176D-2pin 系列电连接器

YG1176D-2pin Series Electrical Connector

• 产品概述/Product instruction

 应用场景/Application 用于充电机、油泵、气泵、高压盒。 Suitable for battery chargers, oil pumps, air pumps and high-voltage boxes.	优势/Advantages ✓ 该产品可实现 360 度全屏蔽; The product can achieve 360-degree full shielding; ✓ 该产品可实现二次互锁及解锁; The product can realize secondary interlocking and unlocking; ✓ 该产品具有高压互锁功能; The product has a high voltage interlocking function; ✓ 具有防呆键位可实现防错插功能; It is equipped with fool-proof key positions to preventing incorrect mating function. ✓ 插头与插座连接形式为直插锁紧; The plug and receptacle utilize a direct plug-in locking mechanism for connection.
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订货信息 (总成) /Ordering information (assembly)

键位/ Key position	1	
产品名称/ Product name	YGC1176D-EV-P(2+2)RH 插座 YGC1176D-EV-P(2+2)RH receptacle	YGC1176D-EV-P(2+2)RHA 插座 YGC1176D-EV-P(2+2)RHA receptacle
产品编号/ Product code	112040106758	111000502855
对插端名称/ Plug name	YGC1176D-EV-S(2+2)P 插头 YGC1176D-EV-S(2+2)P plug	
对插端编号/ Plug code	112030106654	

订货信息 (针孔件, 单独采购) /Ordering information (contacts can be purchased separately)

产品名称/ Product name	04-6.3×0.8-T40 ~ T60T 插孔(无防水栓)/ 04-6.3×0.8-T40 ~ T60T socket (without waterproof plug)
产品编号/ Product code	501021401627
接线规格/ Wiring specifications	4mm ² -6mm ²
图示 (参考) Diagram (for reference)	

订货信息 (尾部附件, 单独采购) / Ordering information (rear accessories can be purchased separately)

产品名称/ Product name	产品编号/ Product code	数量/ Qty	接线规格/ Wiring specification	图示 (参考) / Diagram (for reference)
YG1467 屏蔽件-内-4 YG 1467 shielding - inner - 4	114022500492	2	4mm ² (LV216)	
YG1467 屏蔽件-外-4 YG 1467 shielding - external - 4	114022500495	2		
YG1467 屏蔽件-内-6 YG 1467 shielding - inner - 6	114022500494	2	6mm ² (LV216)	
YG1163B 屏蔽套 YG 1163B shielding sleeve	114022600253	2		
φ6 尾盖组件 φ6 rear cover assembly	113990001502	1	4mm ² -6mm ² (LV216)	
		1		
		1		

• 技术数据/Technical data

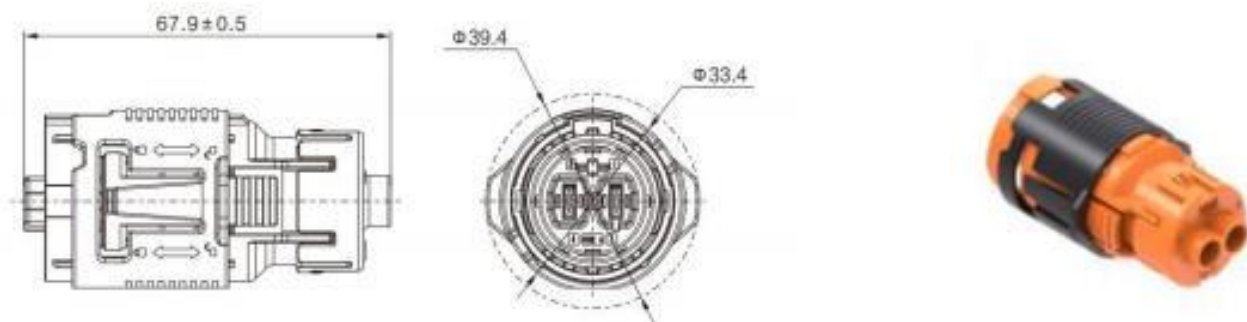
基本信息/Basic information	
PIN 距/Pin pitch	8.6mm
芯数/Numbers of pins	2pin
线缆规格/Cable specification	6mm ² (φ6.0-φ6.5)、4mm ² (φ5.3-φ5.8)
出线方向/Cable outlet direction	180°
电气性能/Electrical specification	
额定电压/Rated voltage	1000V (功率/power) , 24 V (信号/signal)
额定电流/Rated current	30A (4mm ²) 、40A (6mm ²)
绝缘电阻/Insulation resistance	≥2000 MΩ (功率) , ≥1000 MΩ (信号) (常态) ≥2000 MΩ (power), ≥1000 MΩ (signal) (normal state)
耐电压/Withstand voltage	3000 V (功率) , 1000 V (信号) (50Hz AC 常态) 3000 V (power), 1000 V (signal) (50Hz AC normal)
HVIL (Y/N))	Yes
屏蔽 (Y/N)	Yes
机械性能/Mechanical specification	
机械寿命/Life cycle	≥50 次/times
振动/Shock	V2(LV215)
耐环境性能/Environmental resistance specification	
工作温度/Ambient temperature	-40℃ ~ +125℃
防护等级/IP rating	IP67&IP6K9K IPXXB(头座对插) IP67&IP6K9K IPXXB(plug and receptacle are mating)
相对湿度/Humidity range	95% (40℃时/at 40℃)
海拔高度/Altitude	≤4000
材料/涂覆/外观/Materials/Finish/Outline	
参见零部件图纸/Refer to the component drawing	
标准及认证/Standards and certifications	
阻燃等级/Flame retardant rating	UL94 V-0

环保要求/Environment requirements	RoHS 2.0
执行标准/Implementation standards	QC/T 1067.1、GB/T 30038、USCAR 37、USCAR 2

• 产品尺寸图及安装开孔尺寸/Product size & mounting hole dimension

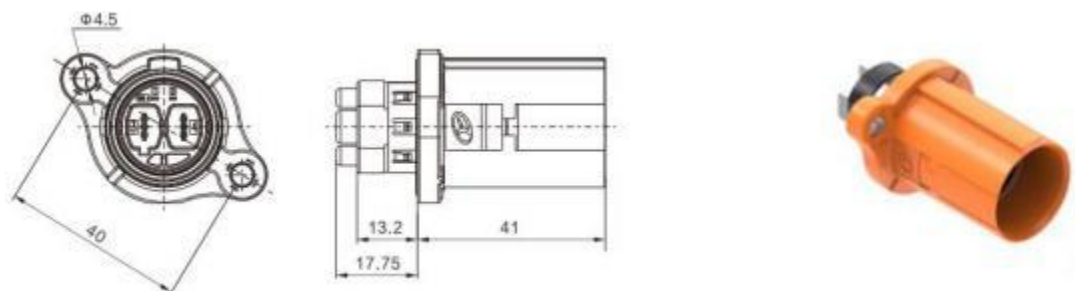
1.YGC1176D-EV-S(2+2)P 插头总成外形(未注公差: ± 0.5)

YGC1176D-EV-S(2+2)P plug assembly outline (unspecified tolerance: ± 0.5)



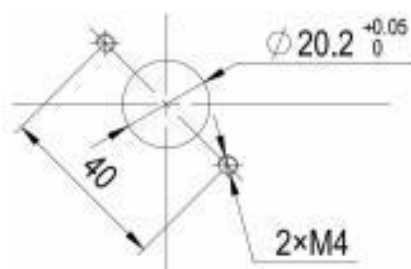
2.YGC1176D-EV-P(2+2)RH 插座总成外形(未注公差: ± 0.5)

YGC1176D-EV-P(2+2)RH receptacle assembly outline (unspecified tolerance: ± 0.5)



3.YGC1176D-EV-P(2+2)RH 插座安装开孔尺寸(未注公差: ± 0.1)

YGC1176D-EV-P(2+2)RH receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



• 安装说明/Installation

专用工具/Special tools	
拆卸工具/Disassembly tool	/
送针工具/Pin feeding tool	/
压接工具/Crimping tool	/
其他工具/Other tool	/

• 储存/Storage

包装储存&转运说明/Storage& transportation	
存放要求/ Storage requirement	接触件（镀金、镀银）类零部件必须单独保存，保持整洁、干净、通风。存储环境应控制在湿度$\leq 60\%$、温度在$5\sim 30^{\circ}\text{C}$。参考保存期 6 个月。 Components with contact elements (gold-plated, silver-plated) must be stored separately, kept clean, tidy and in a well-ventilated environment. The storage environment shall be controlled with a humidity of $\leq 60\%$ and a temperature ranging from 5°C to 30°C. The reference storage period is 6 months.
运输要求/ Transportation requirement	端子在包装、运输、转运和生产、装配过程中应避免碰撞、接触腐蚀性气体和液体、以及手直接接触等，以保证端子接触表面良好。 During packaging, transportation, transfer, production, and assembly processes, terminals shall be protected from collisions, contact with corrosive gases and liquids, and direct hand contact, so as to ensure the good condition of the terminal contact surfaces.