YA-20 Series



Product parameter

YA-20-C03PE-01-001 Part NO. Wire specification 2.5mm ~ 4mm / 14 ~ 12 AWG

 $\Phi 8mm \sim \Phi 12mm$ Line diameter range

Φ2.7×2 Diameter×number Rated current(A) 20A Operation 500V

voltage(AC.V.RMS)

Contact resistance

Temperature rise 20A per contact at 30°C, 25A......40°C, 30A......50°C.

Withstand voltage

2500V (AC.V)1minute

>500MΩ Insulation resistance IP65/IP67 Protection level Mating cycle ≥500times Working temperature -40℃~80℃

Connection mode Threaded connection Wiring mode Welding / Crimping

Material

Insulation components High-performance engineering plastics

Zinc alloy (Nickel Plating) Hardware PIN Copper alloy | gold plating

Waterproof circle Silica gel Flame retardant grade UL94-V0

Core tables

the number of pins	2PIN	3PIN	4PIN	5PIN	7PIN	9PIN	12PIN
The PIN map	••	••					
Rated current	20A	20A	20A	12A	12A	5A	5A
Operating voltage	500V	500V	500V	400V	400V	250V	250V
Withstanding Voltage	2500V	2500V	2500V	2000V	2000V	1500V	1500V
Contact resistance	<1.0mΩ	<1.0mΩ	<1.0mΩ	<2.5mΩ	<2.5mΩ	<5.0mΩ	<5.0mΩ
Temperature rise	20A 30°C↓ ; 25A 40°C↓ ; 30A 50°C↓ 12A 30°C↓ ; 15A 40°C↓ ; 20A 50°C↓						
Contact diameter x number	Ф2.7*2	Φ2.7*3	Φ2.7*4	Ф1.8*5	Ф1.8*7	Ф1.0*9	Φ1.0*12
Insertion force	4.0N Max.	6.0N Max.	8.0N Max.	6.0N Max.	8.2N Max.	2.7N Max.	3.6N Max.
Durability	1700times						
Screw torque	42-53(N.m) torque wrench200(N.m)						
Working temperature	-40°C ~ +80°C						
Vibration	Frequency: 5~200Hz, amplitude: 5mm, speed: 10m/s,0.10us without instantaneous break						
Impact resistance	294m/s2						
Salt fog	PH6.5-7.2,NaCI,5% 48H						
Cable specification							
Diameter range	Applicable scope of OD (1Φ-11.5Φ) mm With a waterproof ring (Φ12mm, Φ6.5mm)						
Protection level	IP67						
Certification standards	Comply with the TUV and UL certification standards						

Connection graph



Appearance dimension

