

**SP21 Series Circular Connector, Socket,  
3 Position, Solder Terminal, 30A, 500V  
Cable OD: 7-12mm**

**RoHS  
Compliant**

Stock No.: 9223991M0295

## FEATURES

- 3 Position
- Socket, Female
- Cable Mount, Solder
- Cable OD: 7-12mm



## Product Description

Circular connectors offer rugged solutions that have been engineered for reliable performance in a wide variety of harsh environmental applications, including aerospace, broadcast, defense and security, electronics, energy, industrial, instrumentation, medical, and transportation.

## General Specifications

Attribute	Value
Coupling	Threaded
Shell Material	PC, Nylon66, fire resistance: V-0
Insert Material	PPS, max temperature 260°C
Contact Material	Gold plated brass
Termination	Solder
Cable Outer Diameter Range	I: 4.5mm, II: 7-12mm, III: 5-9mm
IP Rating	IP68
Mating Cycle	500
Temperature Range	-40°C ~+85°C
Insulation Resistance	2000 MΩ
Rated Current (A)	30
Rated Voltage (AC.V)	500

## Product Drawing

### Cable Connector

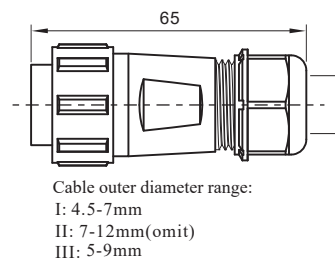
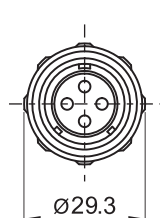
Mate with SP2111C, SP2112, SP2113, SP2115



SP2110 / P - - -  
Male

SP2110 / S - - -  
Female

1: solder(omit), 2: screw, 3: crimp  
Cable outer diameter range  
I: 4.5-7mm, II: 7-12mm, III: 5-9mm  
Number of Contact



Dimensions: Millimeters (Inches)

Number of contact	2	3	4	5	5B	5C	6	6B	7	8	9	12	15
Female contact face view													
Rated current (A)	30	30	30	30	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter(mm)	Ø3X2	Ø3X3	Ø3X4	Ø3X5	Ø3X2 Ø1X3	Ø2X5	Ø2.5X4 Ø1X2	Ø3X2 Ø1X4	Ø2X7	Ø1.5X8	Ø1X9	Ø1X12	Ø1X15
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	1 5	1 5	2.5	2.5	5	5	5
Termination	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder
Wire size for solder (mm²/AWG)	≤4/12	≤4/12	≤4/12	≤4/12	≤4/12 ≤0.75/18	≤2/14	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18

## Mating Graph



## Part Number Table

Part Number	Material code	Description
9223977M0281	SP2110/S2I	SP21 Series Circular Connector, Socket, 2 Position, Solder Terminal, 30A, 500V, OD 4.5-7mm
9223978M0282	SP2110/S3I	SP21 Series Circular Connector, Socket, 3 Position, Solder Terminal, 30A, 500V, OD 4.5-7mm
9223979M0283	SP2110/S4I	SP21 Series Circular Connector, Socket, 4 Position, Solder Terminal, 30A, 500V, OD 4.5-7mm
9223980M0284	SP2110/S5I	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 30A, 500V, OD 4.5-7mm
9223981M0285	SP2110/S5BI	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 30/5A, 500V, OD 4.5-7mm
9223982M0286	SP2110/S5CI	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 15A, 500V, OD 4.5-7mm
9223983M0287	SP2110/S6I	SP21 Series Circular Connector, Socket, 6 Position, Solder Terminal, 25/5A, 500V, OD 4.5-7mm
9223984M0288	SP2110/S6BI	SP21 Series Circular Connector, Socket, 6 Position, Solder Terminal, 30/5A, 500V, OD 4.5-7mm
9223985M0289	SP2110/S7I	SP21 Series Circular Connector, Socket, 7 Position, Solder Terminal, 15A, 500V, OD 4.5-7mm
9223986M0290	SP2110/S8I	SP21 Series Circular Connector, Socket, 8 Position, Solder Terminal, 10A, 500V, OD 4.5-7mm
9223987M0291	SP2110/S9I	SP21 Series Circular Connector, Socket, 9 Position, Solder Terminal, 5A, 400V, OD 4.5-7mm
9223988M0292	SP2110/S12I	SP21 Series Circular Connector, Socket, 12 Position, Solder Terminal, 5A, 400V, OD 4.5-7mm
9223989M0293	SP2110/S15I	SP21 Series Circular Connector, Socket, 15 Position, Solder Terminal, 5A, 400V, OD 4.5-7mm
9223990M0294	SP2110/S2	SP21 Series Circular Connector, Socket, 2 Position, Solder Terminal, 30A, 500V, OD 7-12mm
9223991M0295	SP2110/S3	SP21 Series Circular Connector, Socket, 3 Position, Solder Terminal, 30A, 500V, OD 7-12mm
9223992M0296	SP2110/S4	SP21 Series Circular Connector, Socket, 4 Position, Solder Terminal, 30A, 500V, OD 7-12mm
9223993M0297	SP2110/S5	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 30A, 500V, OD 7-12mm
9223994M0298	SP2110/S5B	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 30/5A, 500V, OD 7-12mm
9223995M0299	SP2110/S5C	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 15A, 500V, OD 7-12mm
9223996M0300	SP2110/S6	SP21 Series Circular Connector, Socket, 6 Position, Solder Terminal, 25/5A, 500V, OD 7-12mm
9223997M0301	SP2110/S6B	SP21 Series Circular Connector, Socket, 6 Position, Solder Terminal, 30/5A, 500V, OD 7-12mm
9223998M0302	SP2110/S7	SP21 Series Circular Connector, Socket, 7 Position, Solder Terminal, 15A, 500V, OD 7-12mm
9223999M0303	SP2110/S8	SP21 Series Circular Connector, Socket, 8 Position, Solder Terminal, 10A, 500V, OD 7-12mm
9224000M0304	SP2110/S9	SP21 Series Circular Connector, Socket, 9 Position, Solder Terminal, 5A, 400V, OD 7-12mm
9224001M0305	SP2110/S12	SP21 Series Circular Connector, Socket, 12 Position, Solder Terminal, 5A, 400V, OD 7-12mm
9224002M0306	SP2110/S15	SP21 Series Circular Connector, Socket, 15 Position, Solder Terminal, 5A, 400V, OD 7-12mm
9224003M0307	SP2110/S2III	SP21 Series Circular Connector, Socket, 2 Position, Solder Terminal, 30A, 500V, OD 5-9mm
9224004M0308	SP2110/S3III	SP21 Series Circular Connector, Socket, 3 Position, Solder Terminal, 30A, 500V, OD 5-9mm
9224005M0309	SP2110/S4III	SP21 Series Circular Connector, Socket, 4 Position, Solder Terminal, 30A, 500V, OD 5-9mm
9224006M0310	SP2110/S5III	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 30A, 500V, OD 5-9mm
9224007M0311	SP2110/S5BIII	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 30/5A, 500V, OD 5-9mm
9224008M0312	SP2110/S5CIII	SP21 Series Circular Connector, Socket, 5 Position, Solder Terminal, 15A, 500V, OD 5-9mm
9224009M0313	SP2110/S6III	SP21 Series Circular Connector, Socket, 6 Position, Solder Terminal, 25/5A, 500V, OD 5-9mm
9224010M0314	SP2110/S6BIII	SP21 Series Circular Connector, Socket, 6 Position, Solder Terminal, 30/5A, 500V, OD 5-9mm
9224011M0315	SP2110/S7III	SP21 Series Circular Connector, Socket, 7 Position, Solder Terminal, 15A, 500V, OD 5-9mm
9224012M0316	SP2110/S8III	SP21 Series Circular Connector, Socket, 8 Position, Solder Terminal, 10A, 500V, OD 5-9mm
9224013M0317	SP2110/S9III	SP21 Series Circular Connector, Socket, 9 Position, Solder Terminal, 5A, 400V, OD 5-9mm
9224014M0318	SP2110/S12III	SP21 Series Circular Connector, Socket, 12 Position, Solder Terminal, 5A, 400V, OD 5-9mm
9224015M0319	SP2110/S15III	SP21 Series Circular Connector, Socket, 15 Position, Solder Terminal, 5A, 400V, OD 5-9mm

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