

# Tinned-Copper Wire Type

## Normal Style [ JPW Series ]

## Jumper Wires



### SPECIFICATIONS

Material of Jumper Wire	Soft copper wire with tin plating		
Wire Diameter	$\varnothing 0.5, \varnothing 0.6, \varnothing 0.7, \varnothing 0.8, \varnothing 1.0$ ( $\pm 0.05\text{mm}$ )		
Tension Strength	CNS 8938 within 28kg/mm <sup>2</sup>		
Extension Rate	CNS 8938 $\varnothing 0.5$ to $\varnothing 0.6\text{mm}$	over 24%	
	CNS 8938 $\varnothing 0.7$ to $\varnothing 1.0\text{mm}$	over 26%	
Conductivity	$\varnothing 0.5\text{mm}$	Minimum 94%	
	$\varnothing 0.6$ to $\varnothing 1.0\text{mm}$	Minimum 96%	
Twisting Strength	CNS 8938 $\varnothing 0.5\text{mm}$	Load 250g	3 cycles
	CNS 8938 $\varnothing 0.6$ to $\varnothing 0.8\text{mm}$	Load 500g	3 cycles
	CNS 8938 $\varnothing 1.0\text{mm}$	Load 1.0kg	3 cycles
Solderability	235 $\pm$ 5°C, 3 $\pm$ 0.5 Sec. coverage 95%		
Element of Plating	Tin Minimum 99.9%		
Thickness of Plating	4 $\pm$ 1 $\mu\text{m}$		
	$\varnothing 0.5\text{mm}$	6 AMPS at 70°C	
	$\varnothing 0.6\text{mm}$	7.5 AMPS at 70°C	
	$\varnothing 0.7\text{mm}$	8.5 AMPS at 70°C	
	$\varnothing 0.8\text{mm}$	10 AMPS at 70°C	
Current Rating	$\varnothing 1.0\text{mm}$	15 AMPS at 70°C	
	Appearance		
	Smooth and shining		

### INTRODUCTION

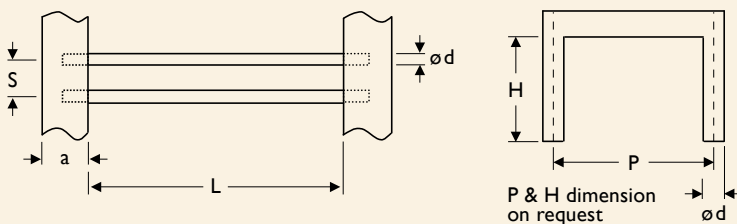
Jumper wires or crossovers, as they are sometimes called, are basically interconnection devices between points on a PC Board. Generally they are used for the following reasons:

- Inability to connect two points on a PC Board due to other circuit paths which must be crossed over
- An After-the-Fact design change that requires new point connections
- Circuit tuning by changing point connections

Jumper wires offers a quick simple solution to these problems. They are especially suited for automatic machine insertion on lead tape, and are available in all packaging styles, including pre-cut and formed leads, for manual insertion.

- Products meet EU-RoHS requirements

### DIMENSIONS



Unit: mm

STYLE	DIMENSION				
	Normal	$\varnothing d$	L	S	a
JPW-05		0.5 $\pm$ 0.05			
JPW-06		0.6 $\pm$ 0.05	26.0 $\pm$ 1.0		
JPW-07		0.7 $\pm$ 0.05	52.4 $\pm$ 1.0	5.0 $\pm$ 0.1	6.0 $\pm$ 0.5
JPW-08		0.8 $\pm$ 0.05	73.0 $\pm$ 1.5		
JPW-10		1.0 $\pm$ 0.05			



## EXPLANATIONS OF ORDERING CODE

<b>MFR</b>	<b>-12</b>	<b>F</b>	<b>T</b>	<b>F</b>	<b>52-</b>	<b>100R</b>
Code 1 - 3 <b>Series Name</b> See Index	Code 4 - 6 <b>Power Rating</b> -05 = $\varnothing$ d0.5mm -06 = $\varnothing$ d0.6mm -07 = $\varnothing$ d0.7mm -08 = $\varnothing$ d0.8mm -10 = $\varnothing$ d1.0mm -14 = $\varnothing$ d1.4mm -12 = 1/6W -25 = 1/4W 25S = 1/4WS -50 = 1/2W 50S = 1/2WS 100 = 1W 1WS = 1WS 200 = 2W 2WS = 2WS 204 = 0.4W 207 = 0.6W 300 = 3W 3WS = 3WS 3WM = 3WM 400 = 4W 500 = 5W 5WS = 5WS 5SS = 5WSS 700 = 7W 7WS = 7WS 10A = 10W 20A = 20W 30A = 30W 40A = 40W 50A = 50W 10S = 10WS 15A = 15W 25A = 25W 10B = 100W 25B = 250W	Code 7 <b>Tolerance</b> P = $\pm 0.02\%$ A = $\pm 0.05\%$ B = $\pm 0.1\%$ C = $\pm 0.25\%$ D = $\pm 0.5\%$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ - = Base on Spec.	Code 8 <b>Packing Style</b> T = Tape/Box R = Tape/Reel B = Bulk	Code 9 <b>Temperature Coefficient of Resistance</b> - = Base on Spec. A = $\pm 5$ ppm/ $^{\circ}$ C B = $\pm 10$ ppm/ $^{\circ}$ C C = $\pm 15$ ppm/ $^{\circ}$ C S = $\pm 20$ ppm/ $^{\circ}$ C D = $\pm 25$ ppm/ $^{\circ}$ C E = $\pm 50$ ppm/ $^{\circ}$ C F = $\pm 100$ ppm/ $^{\circ}$ C G = $\pm 200$ ppm/ $^{\circ}$ C H = $\pm 250$ ppm/ $^{\circ}$ C I = $\pm 300$ ppm/ $^{\circ}$ C J = $\pm 350$ ppm/ $^{\circ}$ C	Code 10 - 12 <b>Forming Type</b> 26- = 26mm 52- = 52.4mm 73- = 73mm 81- = 81mm 91- = 91mm F = F Type FK = FK Type FKK = FKK Type FFK = F-form Kink M = M-Type Forming MB = M-form W/flat MT = MT Type Forming MR = MR Type AV = AVIsert PN = PANAsert	Code 13 - 17 <b>Resistance Value</b> 0R1 = 0.1 100R = 100 10K = 10,000 10M = 10,000,000

### EXCEPTION:

#### • Cement series:

<Code 8>: Special packing style code

B: Bulk with wirewound or metal oxide sub-assembly for resistance value

W: Bulk with ceramic based wirewound sub-assembly for resistance value

M: Bulk with metal oxide sub-assembly for resistance value

F: Bulk with Fiberglass based wirewound sub-assembly for resistance value

<Code 10-12>: Without forming code

Example: **SQP500JB-10R**

#### • JPW series:

<Code 13-17>: without resistance value code

Example: **JPW-06-T-52-**

# Mouser Electronics

Authorized Distributor

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Yageo:

[JPW-06-R-52-](#) [JPW-08-R-52-](#) [JPW-06-R-73-](#) [JPW-08-R-73-](#) [JPW-10-R-52-](#)