



Item Code – LJBR2

Three Wire Gel filled Crimp Connector



For joining Lighting and Communications wires .Designed for applications covering aerial, buried and underground construction which are exposed to a full range of temperature, humidity and pollutants. Filled with sealant ensuring excellent insulation resistance and electrical performance in the most stringent environmental conditions.

- Joining 3 plastic insulated copper conductors in any combination of 0.4mm to 0.9mm wire diameter. No need to strip the insulation (called IDC in trade jargon)
- Gel filled, moisture resistant polypropylene connector designed for wires with a maximum insulation diameter of 2.08mm. Supplied in polybag of 100
- For joining Lighting and Communications wires , for applications covering aerial, buried and underground construction
- Ideal for LED lighting , Signs and other Luminaires. For wire rating see Table below
- Transparent Casing avoids speckling on LED Lighting Panels

Acceptable combinations of crimp and wire . Max insulation diameter of 2.08mm					
Current	Wire Gauge (AWG) or diameter (Max Voltage 40V AC 60V DC)				
	26 AWG 0.40mm	24 AWG 0.51mm	22 AWG 0.64mm	20AWG 0.81	19AWG 0.09
0.5A	Yes	Yes	Yes	Yes	Yes
1A	Yes	Yes	Yes	Yes	Yes
2A	Yes	Yes	Yes	Yes	Yes
3A	No	Yes	Yes	Yes	Yes
4A	No	No	No	Yes	Yes
5A	No	No	No	Yes	Yes
6A	No	No	No	Yes	Yes

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Sale Unit	100 Crimps in heat sealed polybag.		
Barcode	5028088011966		
Commodity Code	8536901000		
Dimension Packed	110x130x20mm	Height	Width Depth
Weight Packed	0.102g		

The maximum cable diameter	< 2.08mm
Conductor range	0.4 to 0.9mm or 26 to 19AWG.

Plastic part: durable polypropylene with durable, high impact material, Transparent lid and Transparent bottom. Contact pin: phosphor bronze with plated tin surface. Connectors can retain the electrical & mechanical properties in the working temperature range -30°C to 70°C and humidity range of 0% to 95%.

Electrical Performance Test

Joint Resistance: The joint resistance of each connector shall not exceed the appropriate limit detailed in Table 1. The spacing between the voltage pick up points shall be $30 \pm 0,5\text{mm}$, the applied Voltage shall not exceed 2V and the current shall not exceed 1A.

Table 1

Conductor Diameter	Joint resistance(mΩ)
0,40	3,0
0,90	1,5

Insulation Resistance Test

The insulation resistance is more than $1 \times 10^5\text{M}\Omega$ after electrification for one minute at an applied voltage of 250VDC under normal temperature and humidity, and more than $1 \times 10^3\text{M}\Omega$ in 5% salt water with normal temperature

Dielectric Strength: A 2000VDC or 1400AV Voltage shall be applied between the wire of the connector and plastic cover. No breakdown or arcing of any kind shall occur.

Mechanical Performance Test

The tensile strength of one standard wire of connector shall not be less than the figure shown on Table 2. The tensile strength of one non-standard wire of connector shall not

be less than 80% of the breaking force of the wire.

Table 2

Conductor Diameter(mm)	Minimum breaking Load(N)
0,4	24
0,9	118

Relative Movement Test

Connectors are mounted on printed circuit boards and are affixed to a vibration. machine with frequency automatically varied between 10 and 50 HZ in one minute cycle, and amplitude of vibration of approximately 1,6mm. They shall be continued for 30 Minutes. The change in the connector resistance shall not exceed 0,5mΩ.

Environmental Performance

Temperature Cycling – Installed connectors shall be exposed to 10 cycles of temperature cycling between -30°C and +70. Each cycle lasts for 30 Minutes. There should be no evidence of physical damage to the connectors as a result of exposure to temperature cycling extreme.

Temperature Life test

The connectors are subjected to 240 hours at an elevated temperature of +70°C. There should be no evidence of physical damage to the connectors as a result of exposure to a temperature of +70°C for 240 hours.