

HARWiN

Component Specification

COO313

2.54mm Pitch Jumper Sockets November 2022

SECTION	TITLE	PAGE
1	Description of Connector and Intended Application	2
2	Ratings	2
Appendix 1	Gauges	3





1. DESCRIPTION OF CONNECTOR AND INTENDED APPLICATION

A range of 2.54mm pitch jumper sockets, consisting of a moulded outer body holding phosphor bronze spring contacts. The contacts are either tin plated overall, or selectively gold plated on the contact area. The component is intended to interconnect two adjacent 0.64mm square or round section pins on 2.54mm pitch centres. Connectors can be mounted side by side in either direction on 2.54mm pitch centres. Double and single contact versions are available, with either open or closed tops on the single row versions.

2. <u>RATINGS</u>

2.1. Electrical Characteristics

Current (at ambient temperature):		
M758X range	1A max	
Others	3A max	
Working Voltage (at sea level)		
Voltage Proof (at sea level):		
M758X range	500V AC	
Others	750V rms at 50Hz	
Contact Resistance:		
Initial	20mΩ max	
After conditioning		
Insulation Resistance (measured between two pins not electrically connected):		
M758X range	5,000M Ω min	
Others, initial	100,000M Ω min	
Others, hot after conditioning		

2.2. Environmental Characteristics

Environmental Classification	
Low Air Pressure Severity	
Operating Temperature Range:	
M758X range	55°C to +105°C
Others	40°C to +85°C

2.3. Mechanical Characteristics

Durability:	
Gold on contact area	
Tin on contact area	
High Temperature, Long Term (current as in 2.1.)	1,000 hours at 70°C
High Temperature, Short Term (no electrical load)	250 hours at 85°C
Contact Holding Force (with 0.64mm square pin)	100gram deadweight
Insertion force (0.64mm square pin):	
M758X range	13.7N max, 2.0N min
Others	14.5N max, 5.0N min
Withdrawal force:	
M758X range	7.4N max, 1.0N min
Others	5.0N max, 1.0N min



APPENDIX 1 – GAUGES

NOTES:

- 1. Material = Steel to BS1407 or equivalent.
- 2. Gauging surfaces to be hardened/ground, 650 HV5 min.
- 3. These gauges to be used for testing fully assembled components only.
- 4. Ultimate wear limit 0.005mm is allowable on gauging dimensions.

A1.1. Engaging and Separating Gauge



A1.2. Contact Push-out Gauge

