

Archer .8

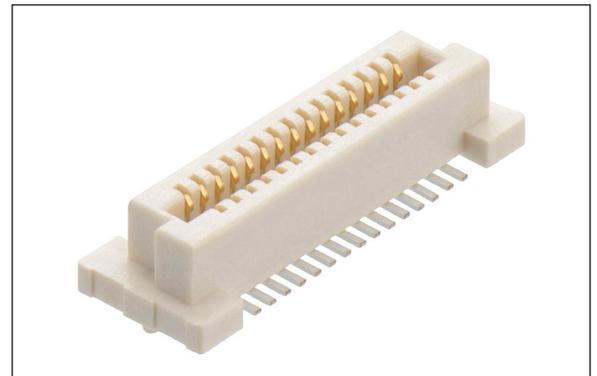
0.8mm Pitch Board-to-Board Connectors

Miniature PCB connectors for industrial and embedded computing

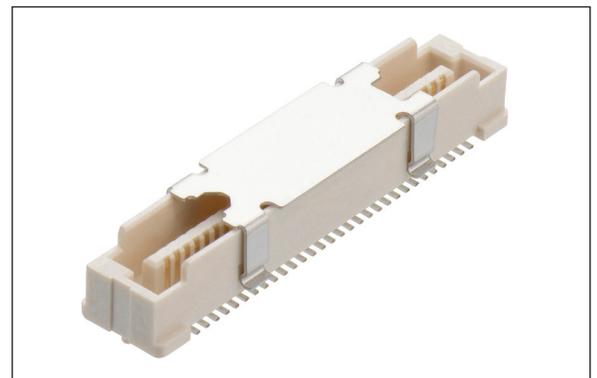
With Archer .8, you can achieve a compact, capable, industrial-grade connection with a high pin count. Designed for mezzanine daughterboard to motherboard layouts.

Capable of 0.5A per contact at just 0.8mm pitch, with a total number of contacts up to 120. Fully shrouded designs with polarized end features ensure confidence in mating and connection protection.

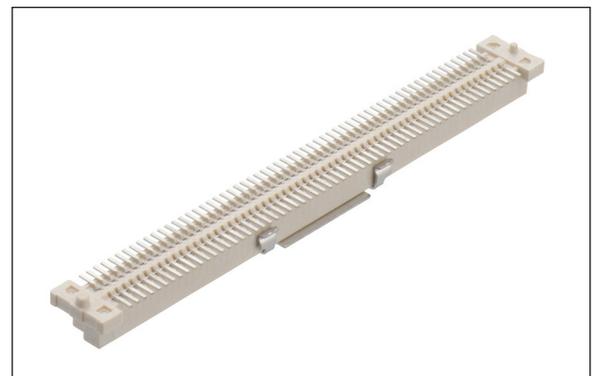
Supplied ready for high volume automation with pick and place caps in Tape & Reel packaging. Stocked and ready for your production needs. Quality assured by Harwin.



30 contact (15+15) female connector



60 contact (30+30) male connector with pick and place cap assembled

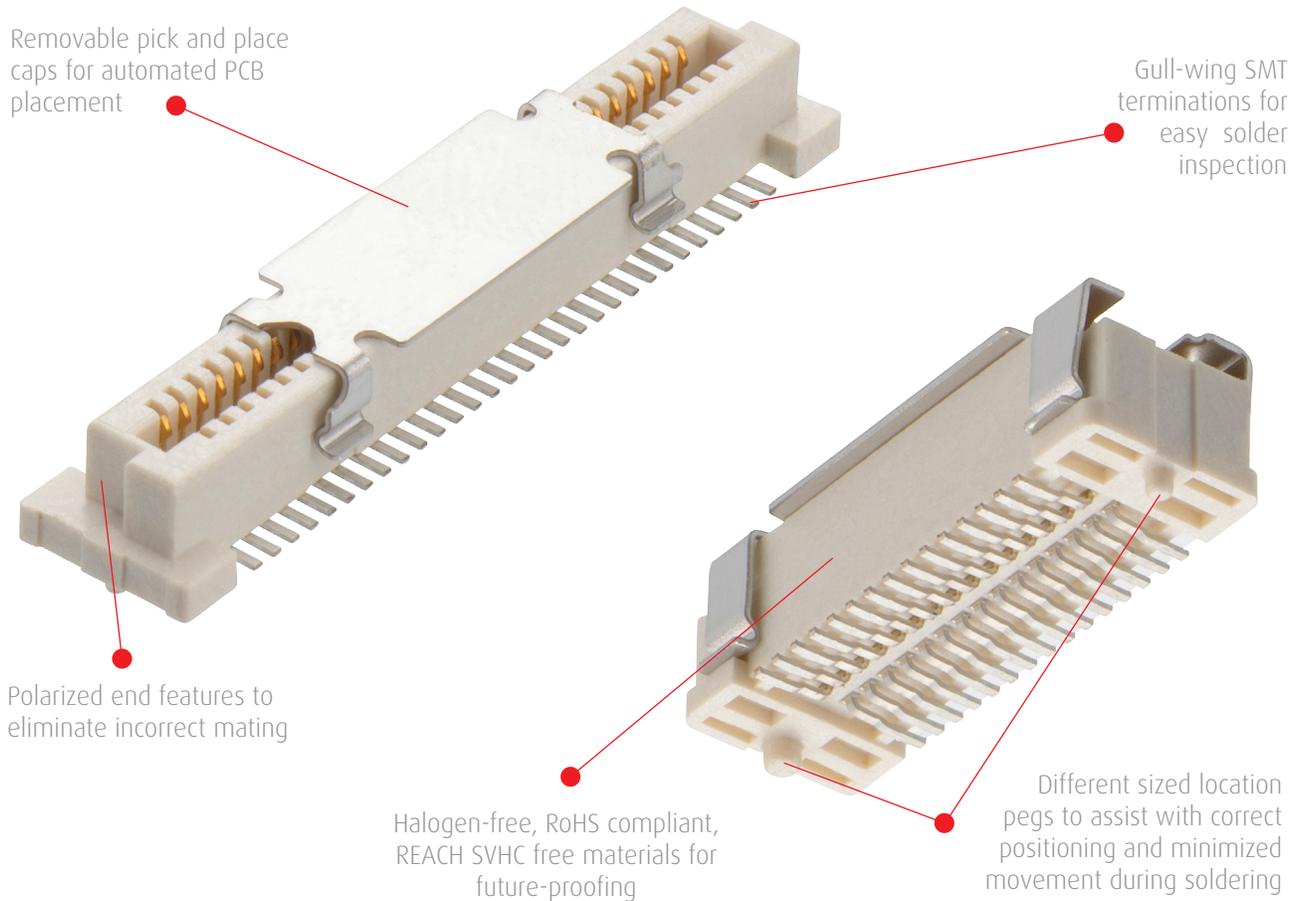


Underside of 120 contact (60+60) female connector

Features and Benefits	
Compact 0.8mm pitch	Minimal board real estate used
Up to 120 contacts	High level of connections in one device
High Speed Connectivity	Suitable for signal & data transfer at 12GHz, 24Gb/s
Polarized and shrouded	Eliminate mis-mating and accidental damage to contacts
Different size location pegs	Ensure correct orientation on the PCB and no movement during soldering
Surface mount terminations, tape and reel packaging	Ideal for high volume automated assembly
5mm mating height	Low-profile board-to-board connections, great for mezzanine to motherboard applications

Key Applications	
Industrial	Embedded computing, Control and Monitoring systems, Sensor modules, IOT connection equipment
Test and Measurement	Smart meters, Mobile monitoring devices, Laboratory measurement systems
E-Vehicles	Battery management units, intelligent control systems, Camera and Lidar units
Retail	Point-of-sale equipment, warehouse inventory systems, POS terminals
Consumer Electronics	Home appliances, Building automation
Fire and Security	Monitoring and detection equipment

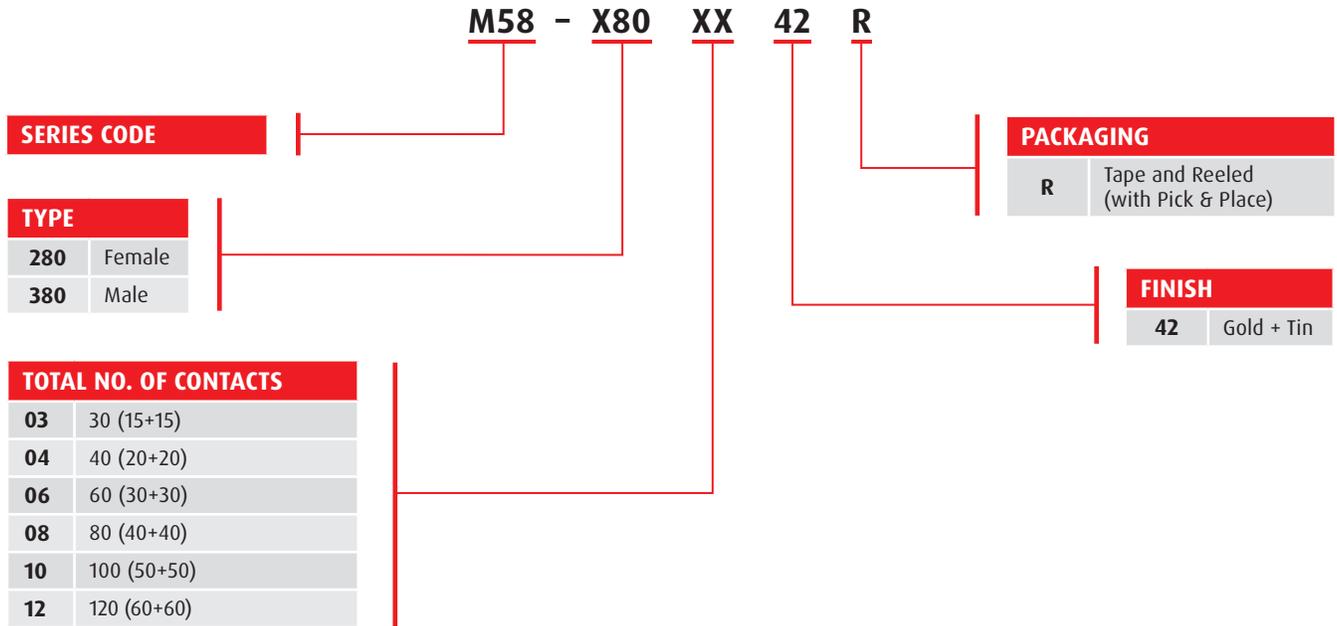
Product Features



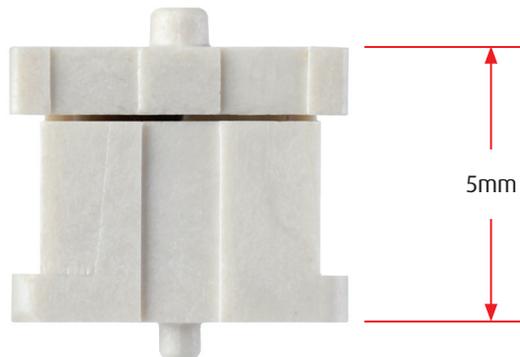
Specifications

Electrical/Signal Integrity		Mechanical/Physical	
Current Rating	0.5A max per contact	No. of operations	30 cycles
Voltage Rating	100V AC/DC	Vibration	10-55-10Hz, 1.5mm, 6 hours total
Maximum Voltage	500V AC/DC for 1 minute	Shock	50G, 18 shocks total
Insulation Resistance	1,000MΩ min	Temp Range	-40°C to +125°C
Impedance Range	84 to 100Ω @ 50ps edge (10-90%) 77 to 92Ω @ 35ps edge (10-90%)	Housing	Halogen-Free Thermoplastic UL94V-0
Return Loss	-10dB up to 15GHz	Contact Material	Phosphor Bronze
Insertion Loss	-1.5dB up to 16GHz	Contact Finish	Gold contact area, tin terminations
Crosstalk	NEXT: -20dB up to 20GHz FEXT: -25dB up to 20GHz	Packaging	Tape & Reel with Pick & Place

How to Order



Mating Height





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