

Archer Kontrol Durable High Performance Connectors

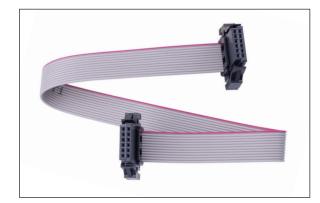
Increased reliability for industrial applications

Harwin's Archer Kontrol range of compact 1.27mm pitch connectors offers a robust and flexible connection choice for your application.

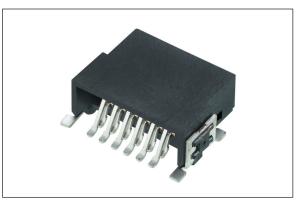
Get the stacking height you need on your board-to-board application by selecting different combinations of male and female vertical connectors. Add horizontal connectors to achieve right angle or co-planar arrangements. IDC female double-ended cable assemblies give you cable-to-board flexibility.

These connectors can assist with blind mating and offer up to 1.2A per contact. Pin counts range from 12 to 80, and mated connectors can carry a data rate up to 3Gbits/s.

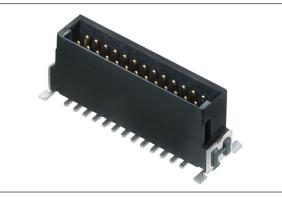
Vertical and Horizontal PCB connector ranges available in both male and femaleComplete flexibility of edge-to-edge, parallel board-to-board, or mother- daughterboard right-angle configurationsSurface mount, including hold-down solder tabs and location pegsSpace saving, enables easy automation and robustness in retention to the PCBTape and reel packagedFor full assembly automationReady-made cable assemblies in 150mm and 300mm lengthsStocked in depth with no lead-time for immediate availabilityCable connectors available loose to create your own cable assemblyYour choice of production optionsFully shrouded connector system, latching features on cable connectorsCan take lateral and twisting forces that can be suffered during vibration environments, assists with blind matingDifferent heights and pin combinations availableDesign flexibility for board stacking height variationsKey ApplicationsFactory equipment, production line controls,	Features and Benefits		
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Factory equipment, production line controls,		connectors, with vertical stacking	
Factory equipment, production line controls,			
	Key Applications		
drive units for large scale installations	Industrial equipment	Factory equipment, production line controls, drive units for large scale installations	
Handheld equipment IOT markets, portable monitoring equipment, data collection	Handheld equipment	IOT markets, portable monitoring equipment, data collection	
Large scale monitoring and controlMobile maintenance and display control systems, trackside and roadside monitoring			
Automotive Onboard charging products, battery management systems	Automotive		



12 contact female cable assembly with latching



¹² contact horizontal female connector



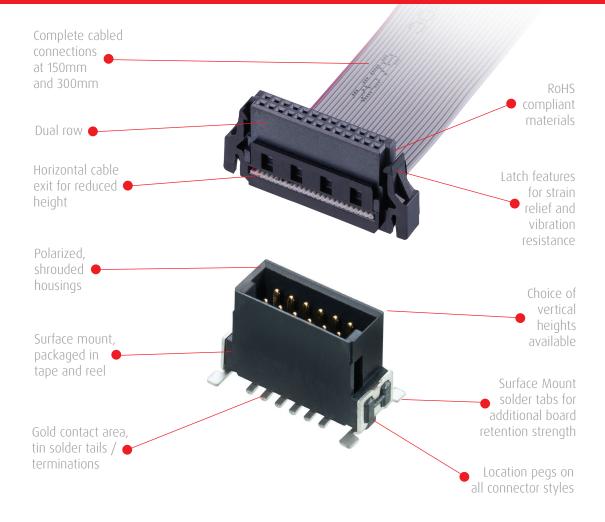
26 pin vertical male connector, 9.85mm high



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Product Features



Specifications						
Electrical Mechanical & Environmental		Physical				
Current Rating	1.2A max (PCB), 0.5A max (cable)	Data Rate	Up to 3Gbits/s	Packaging (PCB connectors)	Tape & Reel (pick and place cap on vertical connectors)	
Working Voltage	100V AC	No. of Mating Cycles	500	Contact Base Material	Phosphor Bronze	
Maximum Voltage	500V AC for 1 minute	Temperature Range	-55°C to +125°C (PCB), -20°C to +105°C (cable)	Finish	Gold on contact area, tin on terminations, over nickel	
Contact Resistance	25mΩ max initial	Insertion Force	0.8N max	Housing	High Temperature LCP UL94V-0	
Insulation Resistance	1GΩ min	Withdrawal Force	0.2N min	Cable	PVC to UL2678, 30AWG	



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Vertical PCB connectors

Female Vertical

M55-60hxx42R

h = Height				
Female	Male			
0 = 6.25mm	0 = 6.75mm			
1 = 9.05mm 1 = 8.25mm				
2 = 13.65mm	2 = 13.65mm 2 = 9.85mm			
xx = Total number of contacts				
12, 16, 20, 26, 32, 40, 50, 68, 80				



M55-70hxx42R

Parallel PCB-to-PCB Mated Height					
Female Connector Part Number	Male Connector Part Number	Mating Height			
M55-600xx42R	M55-700xx42R	8.00mm to 9.50mm			
M55-600xx42R	M55-701xx42R	9.50mm to 11.00mm			
M55-600xx42R	M55-702xx42R	11.10mm to 12.60mm			
M55-601xx42R	M55-700xx42R	10.80mm to 12.30mm			
M55-601xx42R	M55-701xx42R	12.30mm to 13.80mm			
M55-601xx42R	M55-702xx42R	13.90mm to 15.40mm			
M55-602xx42R	M55-700xx42R	15.40mm to 16.90mm			
M55-602xx42R	M55-701xx42R	16.90mm to 18.40mm			
M55-602xx42R	M55-702xx42R	18.50mm to 20.00mm			

Horizontal PCB connectors



M55-610xx42R

xx = Total number of contacts

12, 16, 20, 26, 32, 40, 50, 68, 80



M55-710xx42R

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Total Mated Length for Horizontal Connectors (M55-610xx42R to M55-710xx42R): 15.80mm

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Cable Assemblies (Female-to-Female)



CONTACT US

Harwin Europe (Global Headquarters) Portsmouth, Hampshire, UK E: mis@harwin.co.uk T: +44 (0)23 9231 4545 Harwin Inc (Americas) Salem, New Hampshire, USA E: mis@harwin.com T: +1 603 893 5376 Harwin Asia Pte Ltd (Asia, Australasia) Singapore E: mis@harwinasia.com T: +65 6 779 4909

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