

har-flex® HD Card Edge®



Pushing Performance
Since 1945



Description	Links to Other Materials
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<p>An extension of the <i>har-flex</i>® product family, offering fine pitch, card edge design for high-speed transmission</p> <p>Ideal for mezzanine applications of $\geq 20\text{mm}$</p> <p>Various PCB hold down options offering different solutions for space saving or increased robustness</p>	<p>har-flex® HD-Card Edge HARTING Technology Group</p> <p>Miniature Board-to-Board Connectors HARTING har-flex® Small. Flexible. Robust. - YouTube</p> <p>livebook.pdf (harting.com)</p>
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Specs	
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| <ul style="list-style-type: none"> 0.8mm pitch 20-140 contacts (increments of 20) Up to 25 Gbps / 7 GHz 1.7A at 80 deg C Plating Au over Pd/Ni, Mating side Tin plated, Termination side | <ul style="list-style-type: none"> Mating cycles: 200 Operating temp: -55° to +125°C Isolation body: Liquid crystal polymer (LCP) Card Edge for 1.6mm thick boards Insertion force: $\leq 25\text{N}$ |
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Markets	
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| <ul style="list-style-type: none"> Transportation Machinery Robotics E-Mobility | <ul style="list-style-type: none"> Automation PGTD Medical Data Centers |
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Applications	
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| <ul style="list-style-type: none"> Relays Industrial controls Scanners PLCs | <ul style="list-style-type: none"> HMI Routers/Servers Data Storage Ultrasound |
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Feature	Advantage	Benefit
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| <ul style="list-style-type: none"> Card edge connector offers smoother path for the signal | <ul style="list-style-type: none"> Compared to a two-part connector system, there are no negative impacts on the signal due to a second connector | <ul style="list-style-type: none"> High data rate in a small footprint High current compared to other 0.8mm connector types |
| <ul style="list-style-type: none"> Three choices of hold down designs Plastic alignment pegs | <ul style="list-style-type: none"> Customer choice based on their application Accurate positioning on PCB | <ul style="list-style-type: none"> Option 1 = maximum space saving Option 2 = security with SMT fixing Option 3 = Max security with THR fixing |
| <ul style="list-style-type: none"> Card edge for use with adapter card | <ul style="list-style-type: none"> Ideal for mezzanine applications Realize any PCB spacing distance ($\geq 20\text{mm}$) Convert pin counts eg 40 to 100 | <ul style="list-style-type: none"> Unlimited board stacking height ($\geq 20\text{mm}$) No restrictions due to available mated pair connector heights Increased design flexibility |