

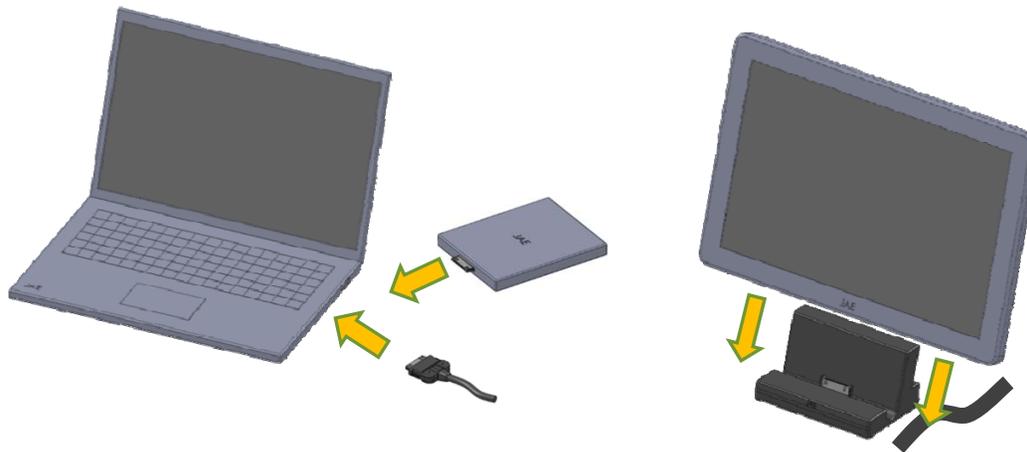


DD1/DD2 Series High-Speed Docking Connector

Connector Training Module

Application Examples

- Smartphone
- Handheld Scanners
- Laptop PCs
 - PDA
 - Tablets
- Portable medical monitoring equipment



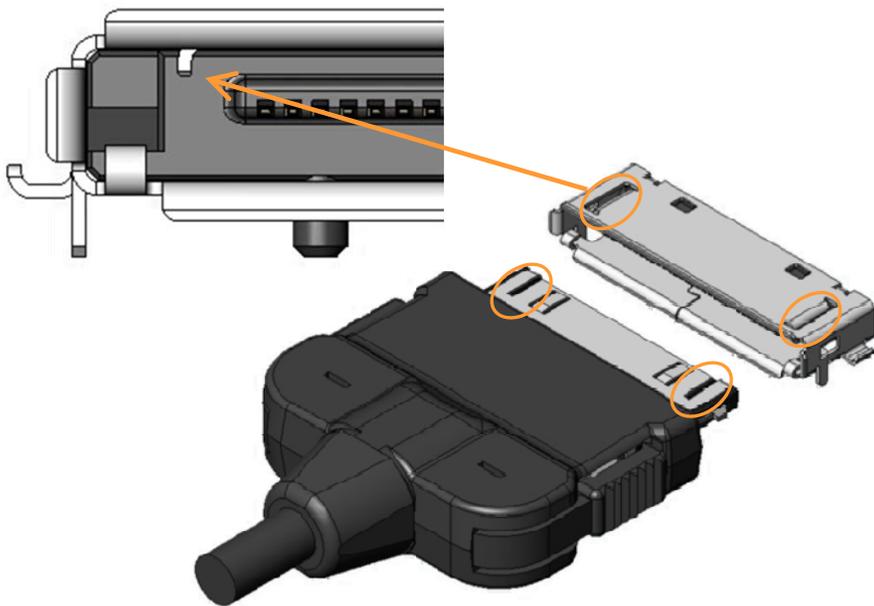
DD1/DD2 Series Overview

The DD1 and DD2 series are docking connector families which are designed to transmit power and high speed differential signals to mobile devices. The male connector is available both as a traditional cable connecting plug, as well as a cradle (dock) plug which can be mounted directly to a PCB. An outer metal shell acts as a mechanical key and guide during mating, and also helps minimize EMI. Locking latches are included on the cable plug to ensure secure mating, while large guide posts on the cradle plug allow for blind mating/docking.



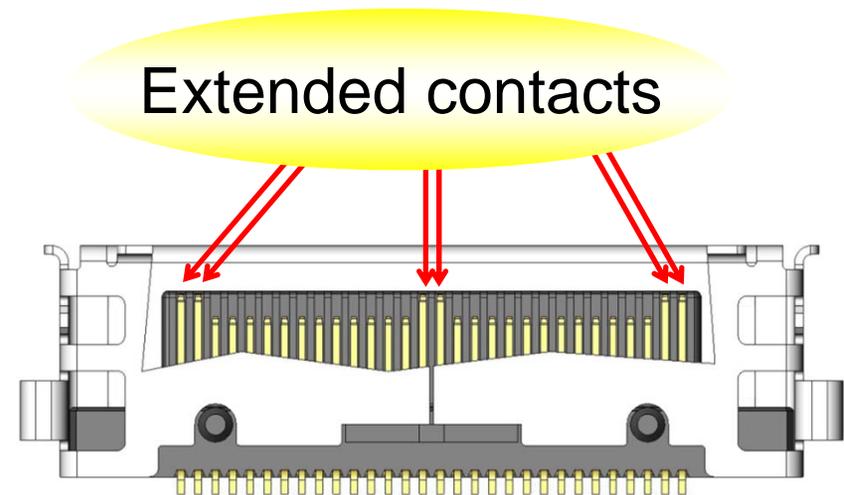
DD1/DD2 Series Features

Guide Rail



Improves connector strength against side to side twisting forces when mating and unmating. (JAE proprietary design)

Power Contacts

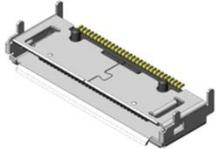


Dedicated power contacts protrude farther than other contacts so they will be the first to mate and last to break. This allows for hot plugging.

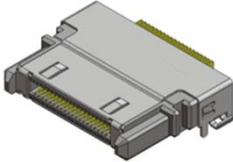
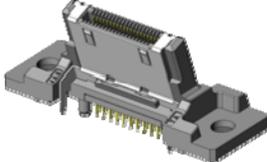
The power contacts are also spread out as much as possible to help avoid excessive temperature rise in one area.

DD1/DD2 Series Line-up

DD1 Series (30 positions)

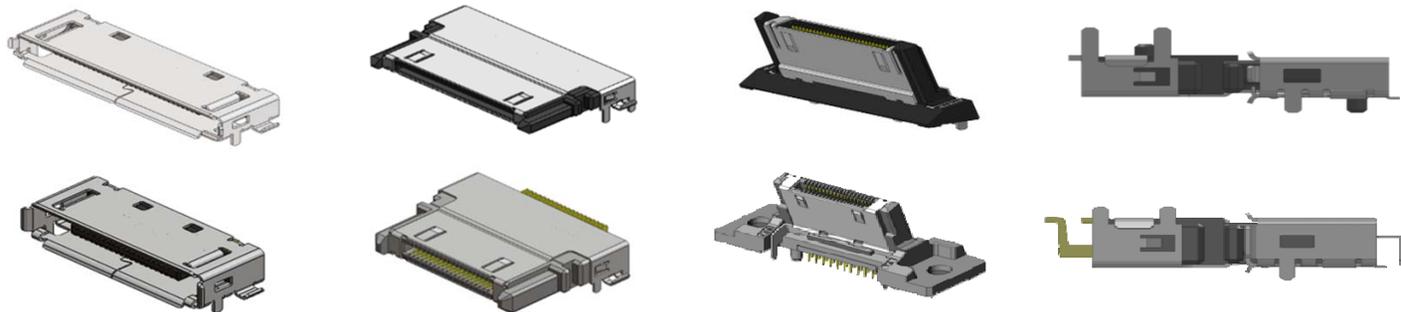
| | Cable Plug | Cradle/Dock (Right angle) | Cradle/Dock (75°) | Receptacle (Standard) | Receptacle (Reverse) |
|-------------|---|--|---|---|---|
| Image |  |  |  |  |  |
| Part Number | DD1P030MA1 | DD1B030HA1 | DD1B030VA1 | DD1R030HA1 | DD1R030JA7 |

DD2 Series (40 positions)

| | Cable Plug | Cradle/Dock (Right angle) | Dock/Cradle (70°) | Receptacle |
|-------------|---|--|---|---|
| Image |  |  |  |  |
| Part Number | DD2P040MA1 | DD2B040HA2 | DD2B040VP4 | DD2R040HP2 |

General Specifications

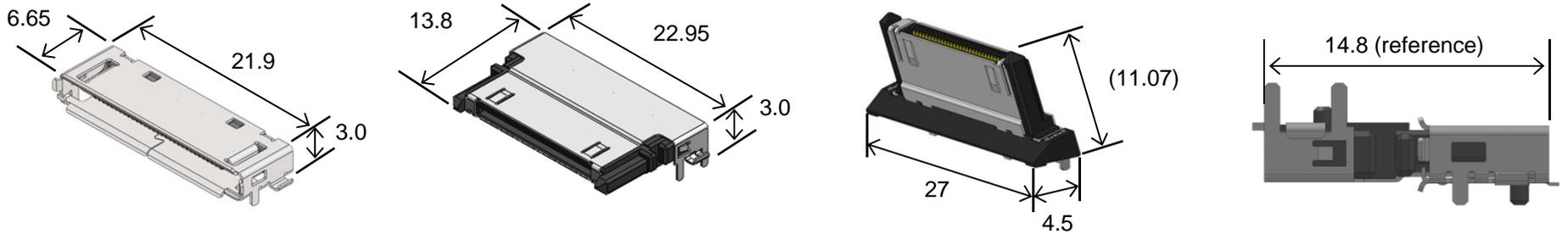
| | |
|------------------------------------|--------------------------------------|
| Number of contacts | DD1: 30 contacts DD2: 40 contacts |
| Rated Current | Signal: 0.5A Power: 1.0A |
| Rated Voltage | AC 30 Vrms |
| Operating Temperature | -25 °C to +75 °C |
| Mating Durability | 10,000 cycles |
| Applicable Wire | AWG #28 max. |
| Mounted Height (receptacle) | DD1: 3.0mm DD2: 3.8mm |



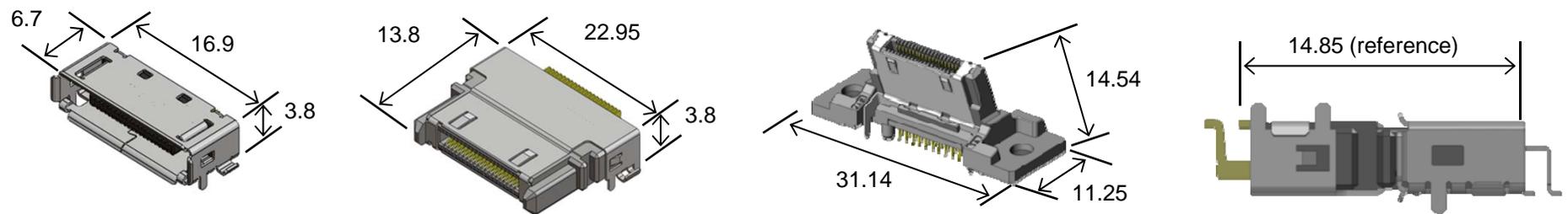
Basic Dimensions

*All units in mm

DD1 Series (30 positions)

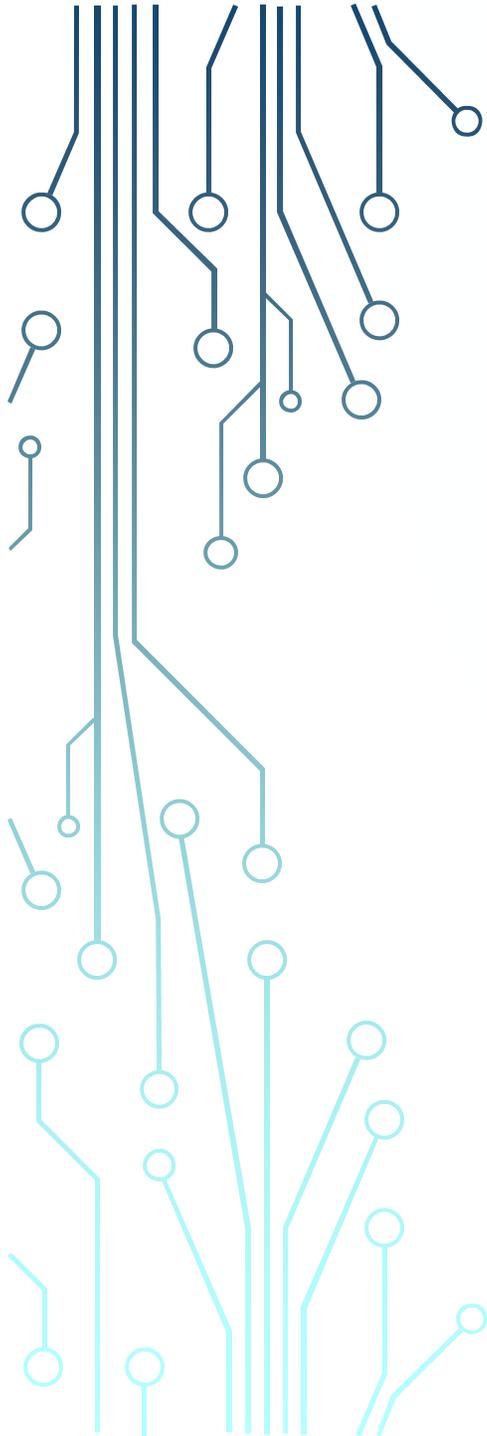


DD2 Series (40 positions)



Summary

- Docking connector families designed to transmit power and high speed differential signals to mobile devices
 - The male connector is available both as a traditional cable connecting plug and a cradle (dock) plug which can be mounted directly to a PCB
 - An outer metal shell acts as a mechanical key and guide during mating, and also helps minimize EMI
 - Locking latches are included on the cable plug to ensure secure mating
 - Large guide posts on the cradle plug allow for blind mating/docking
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Technology to Inspire Innovation

JAE