

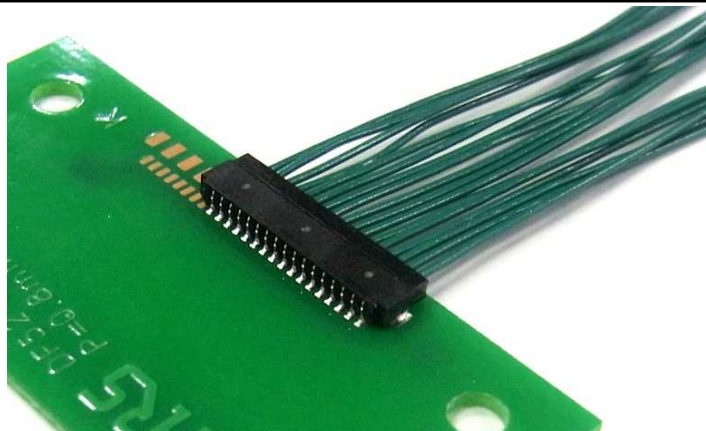


**THE DATASHEET OF  
DF52-4S-0.8H(21)**



## DF52 Series

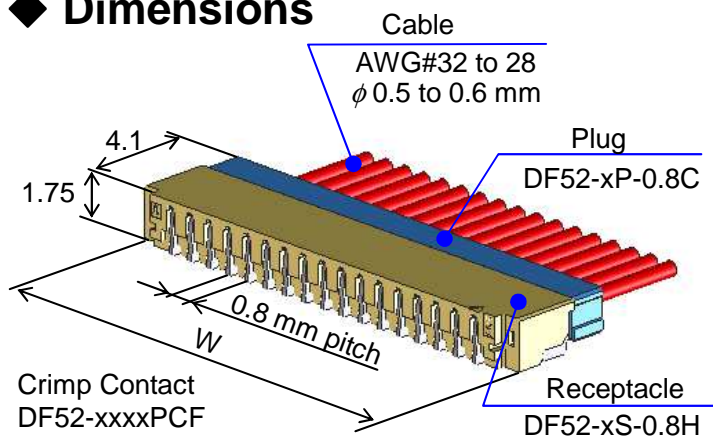
### 0.8 mm pitch, Small & Robust Wire to Board Connector



#### ◆ Features

1. 0.8 mm pitch, 1.75 mm height 4.1 mm depth small connector
2. Rated up to 2.5 Amps MAX with AWG#28, 2 pos.
3. Robust design is tolerant of cable wiring.
4. High contact lance strength
5. Box shape crimp contact prevents deformation
6. Supports cables with jacket O/D 0.5 to 0.6 mm, AWG#32 to 28
7. RoHS compliant, halogen-free product
8. Will be UL approved

#### ◆ Dimensions



|            | 2    | 3    | 4    | 5    | 6    | 8    | 10   |
|------------|------|------|------|------|------|------|------|
| Width (mm) | 3.8  | 4.6  | 5.4  | 6.2  | 7.0  | 8.6  | 10.2 |
|            | 12   | 14   | 15   | 16   | 17   | 20   | -    |
| Width (mm) | 11.8 | 13.4 | 14.2 | 15.0 | 15.8 | 18.2 | -    |

#### ◆ Variation

Mass Production: 2, 3, 4, 5, 6, 8, 10, 12, 14, 15, 16, 17 and 20 pos.\*

\* Technically available up to 25 pos.

Please consult your sales representative for details.

#### ◆ Material & Finish

|            | Item           | Material     | Finish         |
|------------|----------------|--------------|----------------|
| Receptacle | Housing        | Polyamide    | UL94V-0, Black |
|            | Contact        | Copper Alloy | Tin plating    |
|            | Metal Fitting  | Brass        | Tin plating    |
| Plug       | Housing        | Polyamide    | UL94V-0, Black |
|            | Crimp Terminal | Copper Alloy | Tin plating    |



#### ◆ Performance Characteristics

| Rated Current<br>(Value in case all pins used for power) |   | AWG28    | AWG30    | AWG32    |
|--|---|----------|----------|----------|
|  | 2 pos.  | 2.5 Amps | 2.0 Amps | 1.5 Amps |
|  | 3 to 5 pos.   | 2.0 Amps | 1.5 Amps | 1.0 Amps |
|  | 6 to 10 pos.  | 1.5 Amps | 1.2 Amp  | 0.8 Amp  |
|  | 12 pos. or more   | 1.2 Amps | 1.0 Amp  | 0.8 Amp  |
| Rated Voltage  | AC/DC 100V  |          |          |          |
| Contact Resistance                                       | 10 mΩ Max. (20mV, 1mA)  |          |          |          |
| Insulation Resistance                                    | 100 MΩ Min. (DC 100V)   |          |          |          |
| Withstanding Voltage                                     | AC 300V, for 1 minute   |          |          |          |
| Operating Temperature Range                              | -40 °C to +85 °C<br>(Includes temperature rise during current flow) |          |          |          |
| Applicable Cable   | AWG#32 to 28, $\phi$ 0.5 to 0.6 mm                                  |          |          |          |
| Durability   | 20 times  |          |          |          |

Specifications herein are subject to change without notice. Contact Hirose for latest specifications, drawings or availabilities.

## Looking for pricing, stock, or lifecycle information?

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