# DIN power male connector - interface U

RoHS compliant

## General information

| | | |
|---|---|---|
| Design | complementary IEC 60603-2 | types: F male - interface U |
| No. of contacts | max. 48 | |
| Contact spacing | 5,08 mm / 3,81mm | |
| Test voltage | 1550V contact/contact | 2500V contact/ground |
| Contact resistance | max. 15mOhm | |
| Insulation resistance | min. $10^{12}$Ohm | |
| Working current | max. 6A at 20°C (see derating diagram) | |
| Temperature range | -55°C ... +125°C | |
| Termination technology | wire wrap | |
| Clearance | min. 1,6 mm | |
| Creepage | min. 3,0 mm | |
| Insertion and withdrawal force | 48-pole max. 75N | |
| Mating cycles | - PL1 acc. to IEC 60603-2 => | 500 mating cycles |
| UL file | E102079 | |
| RoHS - compliant | Yes | |
| Leadfree | Yes | |
| Hot plugging | No | |

## Insulator material

| | |
|---|---|
| Material | PC (thermoplastics, glass fiber reinforcement 20%) |
| Colour | RAL 7032 (grey) |
| UL classification | UL 94-V0 |
| Material group acc. to IEC 60664-1 | IIIa (175 ≤ CTI < 400) |
| NFF classification | I2, F1 |

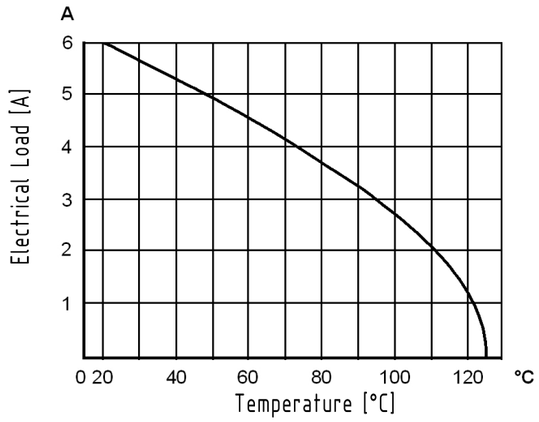
## Contact material

| | |
|---|---|
| Contact material | Copper alloy |
| Plating contact zone | Au over Ni |

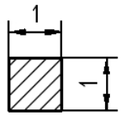
## Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5




## Cross section of wirewrap posts




All Dimensions in mm
Original Size DIN A3

Scale 1:1

Free size tol.

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