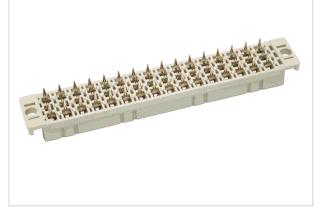


DIN-Power Flow032FP-4,5C1-2



Part number	09 06 232 6832
Specification	DIN-Power Flow032FP-4,5C1-2
HARTING eCatalogue	https://b2b.harting.com/09062326832

Image is for illustration purposes only. Please refer to product description.

Identification

Category	Connectors
Series	DIN 41612
Identification	Type F
Element	Female connector
Description of the contact	Straight
Features	lead-free

Version

Termination method	Press-in termination
Connection type	Motherboard to daughtercard Mezzanine
Number of contacts	32
Contact configuration	Rows z and b, positions 2, 4, , 30, 32
Termination length	4.5 mm
Coding	Hole coding Coding with loss of contacts D20 coding Shroud coding
PCB fixing	With fixing flange

Technical characteristics

Contact rows	3
Contact spacing (termination side)	3.81 mm 5.08 mm

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Technical characteristics

Contact spacing (mating side)	3.81 mm 5.08 mm	
Rated current	6 A	
Rated current	Rated current measured at 20 °C, see derating curve for details	
Clearance distance	≥1.6 mm	
Creepage distance	≥3 mm	
Insulation resistance	>10 ¹² Ω	
Contact resistance	≤15 mΩ	
Limiting temperature	-40 +105 °C upper limiting temperature limited by the pcb	
Insertion and withdrawal force	≤50 N	
Performance level	2 acc. to IEC 60603-2	
Mating cycles	≥400	
Test voltage U _{r.m.s.}	1.55 kV (contact-contact) 2.5 kV (contact-ground)	
Isolation group	IIIa (175 ≤ CTI < 400)	
PCB thickness	≥1.6 mm	
Hot plugging	N-	
Hot plugging	No	
Material properties	NO	
	Thermoplastic resin, glass-fibre filled	
Material properties		
Material properties Material (insert)	Thermoplastic resin, glass-fibre filled	
Material properties Material (insert) Colour (insert)	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey)	
Material properties Material (insert) Colour (insert) Material (contacts)	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side	
Material properties Material (insert) Colour (insert) Material (contacts) Surface (contacts)	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side	
Material properties Material (insert) Colour (insert) Material (contacts) Surface (contacts) Material flammability class acc. to UL 94	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side V-0	
Material properties Material (insert) Colour (insert) Material (contacts) Surface (contacts) Material flammability class acc. to UL 94 RoHS	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side V-0 compliant	
Material properties Material (insert) Colour (insert) Material (contacts) Surface (contacts) Material flammability class acc. to UL 94 RoHS ELV status	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side V-0 compliant compliant	
Material properties Material (insert) Colour (insert) Material (contacts) Surface (contacts) Material flammability class acc. to UL 94 RoHS ELV status China RoHS	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side V-0 compliant compliant e	
Material propertiesMaterial (insert)Colour (insert)Material (contacts)Surface (contacts)Material flammability class acc. to UL 94RoHSELV statusChina RoHSREACH Annex XVII substances	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side V-0 compliant compliant e No	
Material propertiesMaterial (insert)Colour (insert)Material (contacts)Surface (contacts)Material flammability class acc. to UL 94RoHSELV statusChina RoHSREACH Annex XVII substancesREACH ANNEX XIV substances	Thermoplastic resin, glass-fibre filled RAL 7032 (pebble grey) Copper alloy Noble metal over Ni Mating side Ni Termination side V-0 compliant compliant e No No No	

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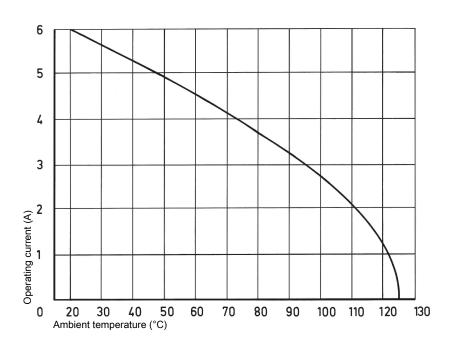
Specifications and approvals

Specifications	IEC 60603-2
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F4/I3 acc. to NFF 16-101/102
Commercial data	
Packaging size	20
Net weight	12.72 g
Country of origin	Romania
European customs tariff number	85366990
eCl@ss	27460201 PCB connector (board connector)

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (nonintermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

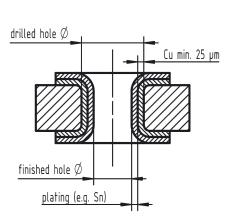
Measuring and testing techniques acc. to IEC 60512-5-2



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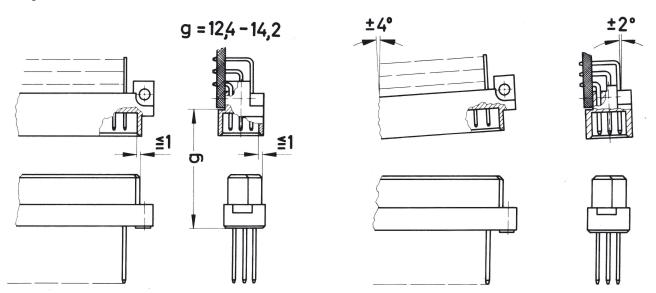
Tin plated PCB (HAL) acc. to EN 60352–5	Drilled hole Ø	1,15±0,025 mm
	Sn	max. 15 µm
	plated hole Ø	0,94 - 1,09 mm
Chemical tin plated PCB	Drilled hole Ø	1,15±0,025 mm
	Sn	min. 0,8µm
	plated hole Ø	1,00 - 1,10 mm
Gold /Nickel plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ni	3 – 7 µm
	Au	0,05 – 0,12 µm
	plated hole Ø	1,00 - 1,10 mm
Silver plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ag	0,1 - 0,3 µm
	plated hole Ø	1,00 – 1,10 mm
Copper plated PCB (OSP)	Drilled hole Ø	1,15±0,025 mm
	plated hole Ø	1,00 – 1,10 mm

In addition to the hot-air-level (HAL) other pcb surfaces are getting more important. Due to their different properties, such as mechanical strength and coefficient of friction we recommend the above mentioned configuration of pcb through holes.

Assembly instructions

It is highly recommended to use HARTING press-in tools to ensure a reliable press-in process. Please refer to the catalogue for tools, machines and further information for the press-in process.

Mating conditions



To ensure reliable connections and prevent unnecessary damage, please refer to the application data diagrams. These recommendations are set out in IEC 60603-2.

The connectors should not be coupled and decoupled under electrical load.

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Recommended configuration of plated through holes