

ELECTRONIC PART

Number of contacts	24
Contact spacing (mm)	
Male connector	2.54 x 5.08
Female connector	5.08
Working current	6 A max.
see current carrying capacity chart	
Clearance	≧ 1.6 mm
Creepage	≧ 3 mm
Working voltage	according to the safety regulations of the equipment.
The working voltage also depends on the clearance and creepage dimensions of the P.C. Board itself, and the associated wiring	Explanations page 6
Test voltage $U_{r.m.s.}$	1.55 kV
Contact resistance	≧ 15 mΩ
	≧ 20 mΩ included crimp connection
Electrical termination	
Male connector	Angled solder pins 0.6 x 0.6 mm for P.C.B. connections $\varnothing 0.8 + 0.3$ mm
Female connector	Wrap posts 1 x 1 mm diagonal 1.34–1.45 mm Solder pins $\varnothing 0.7$ mm for P.C.B. connections $\varnothing 0.8 + 0.3$ mm Crimp terminal 0.09–1.5 mm ²
Contact surface	Contact zone: selectively gold plated according to performance level ¹⁾ Termination zone: tinned

HEAVY DUTY PART

Number of contacts	6 + first mating contact (position z 32)
Working current	15 A max.
see current carrying capacity chart	
Clearance	≧ 4.5 mm
Creepage	≧ 8.0 mm
Working voltage	according to the safety regulations of the equipment.
The working voltage also depends on the clearance and creepage dimensions of the P.C. Board itself, and the associated wiring	Explanations page 6
Test voltage $U_{r.m.s.}$	3.1 kV
Contact resistance	≧ 8 mΩ
Electrical termination	
Male and female connector	Connector for faston 6.3 x 2.5 (faston width x wire gauge) according to DIN 46 245 and DIN 46 247
Male connector	Angled solder pins 0.8 x 1.2 mm for P.C. Board $\varnothing 1.6 + 0.1$ mm according to DIN 40801, P. 2
Contact surface	Hard silver plated terminal ends of the female connectors tinned

BOTH PARTS

Insulation resistance	≧ 10 ¹² Ω
Temperature range	– 65 °C + 125 °C
The higher temperature limit includes the local ambient and heating effect of the contacts under load	
Insertion and withdrawal force	≧ 85 N

Materials

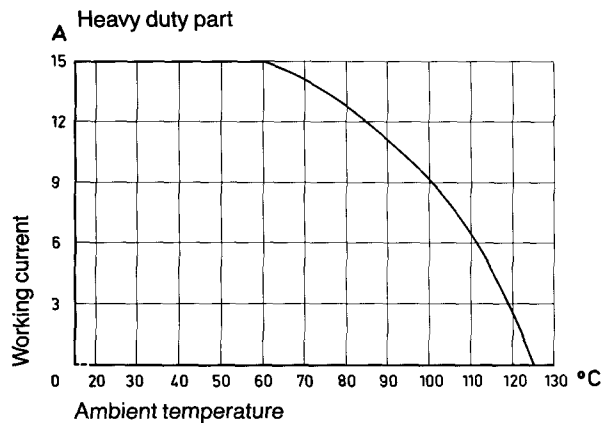
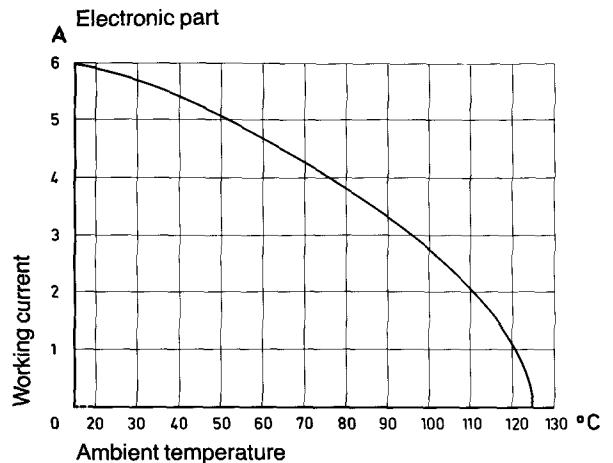
Mouldings	Thermoplastic resin, glass-fibre filled
Contacts	Copper alloy

¹⁾ Explanations of performance levels page 10

Current carrying capacity

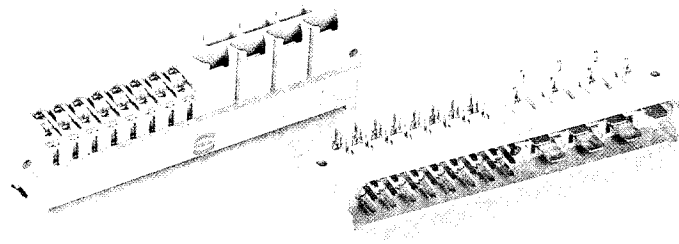
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN 41 640, part 3.



Number of contacts

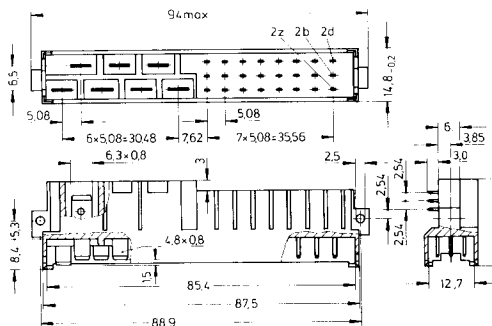
24+7



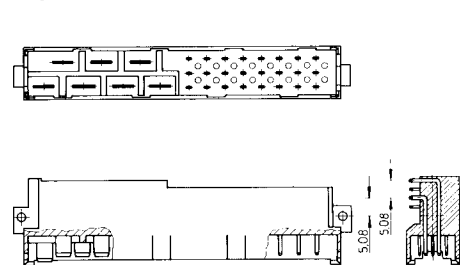
Male connectors

Identification	Number of contacts	Part No.	Performance levels according to DIN 41 612, explanations page 10
		3	2 1
Male connector for faston 6.3 x 2.5			
1 first mating contact (position z 32)	24 + 7		09 06 031 6921 09 06 031 2971*
2 first mating contacts (position z 2 + z 32)	24 + 7		09 06 031 6923
Male connector with angled solder pins			
1 first mating contact (position z 32)	24 + 7		09 06 131 6922
2 first mating contacts (position z 2 + z 32)	24 + 7		09 06 131 6924

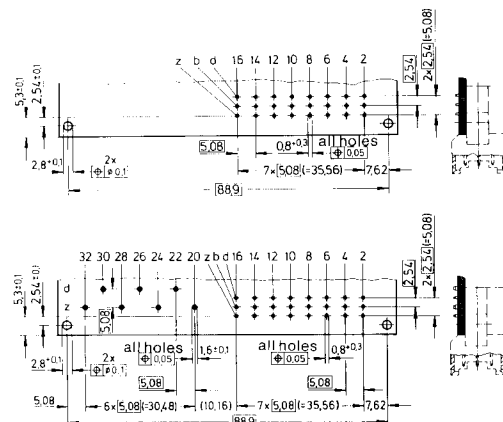
Faston terminal



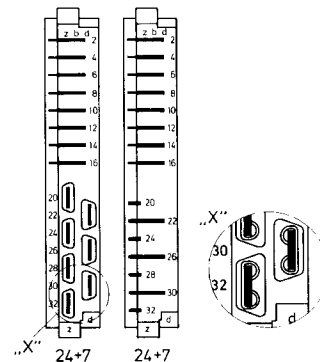
Angled solder pins



Board drillings

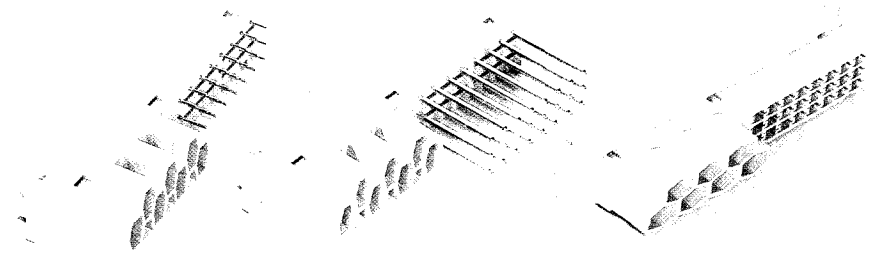


Contact arrangement
View from termination side



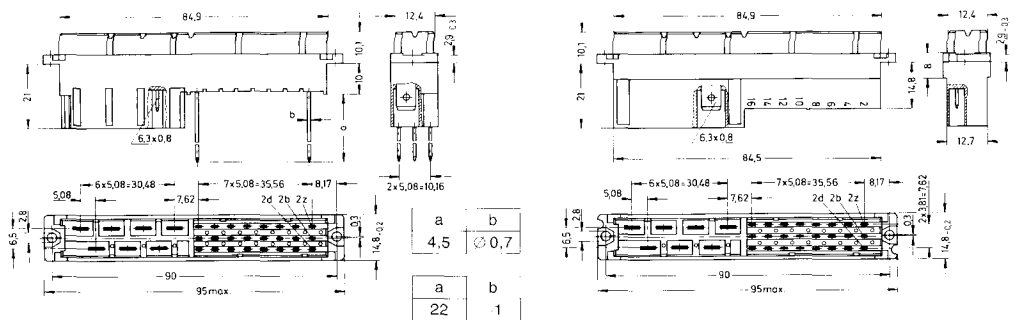
Number of contacts

24+7

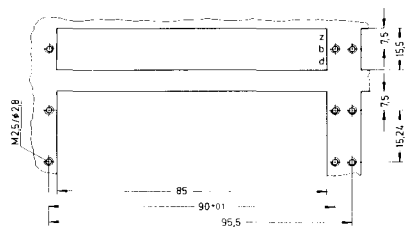


Female connectors

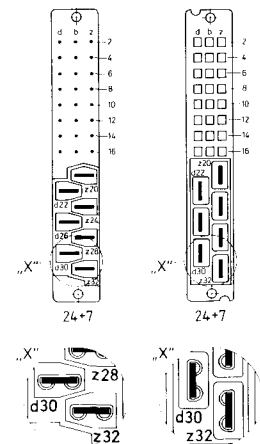
Identification	Number of contacts	Part No.	Performance levels according to DIN 41 612, explanations page 10	
		3	2	1
Female connector with solder pins 4.5 mm	24 + 7		09 06 231 6822	09 06 231 2822*
Female connector with wrap posts 1 x 1 mm	24 + 7		09 06 231 6821	09 06 231 2821*
Female connector for crimp contacts Order contacts separately see page 62	24 + 7			09 06 231 2881*



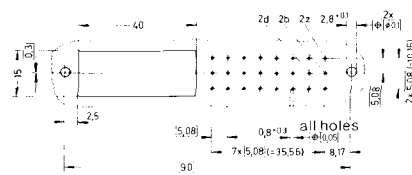
Panel cut out



Contact arrangement View from termination side



Board drillings



Shell housing for female connector with crimp contacts page 93

Dimensions in mm

* Not normally kept in stock