

ELECTRONIC SECTION

Number of contacts	21, 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	6 A max. The working voltage also depends on the clearance and creepage dimensions on the pcb itself, and the associated wiring
Test voltage $U_{r.m.s.}$	1.55 kV
Contact resistance	≤ 15 mΩ wrap, solder termination ≤ 20 mΩ including crimp connection

Electrical termination	
Male connector	Solder pins for pcb connection Ø 1 ± 0.1 mm acc. to IEC 60326-3 Wrap posts 1 x 1 mm diagonal 1.34-1.45 mm Solder pins for pcb connection Ø 1 ± 0.1 mm acc. to IEC 60326-3 Crimp terminal 0.09-1.5 mm ²
Female connector	
Contact surface	Contact zone: selectively plated according to performance level ¹⁾ Termination zone: tinned

HEAVY DUTY SECTION*

Number of contacts	7
Working current	15 A max. see current carrying capacity chart
Clearance	≥ 4.5 mm
Creepage	≥ 8.0 mm
Working voltage	The working voltage also depends on the clearance and creepage dimensions on the pcb itself, and the associated wiring
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) acc. to DIN 46245 and DIN 46247 Solder pins for pcb connection Ø 1.6 ± 0.1 mm acc. to DIN EN 60097
Male connector	
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 effects of the contacts under load

Insertion and withdrawal force ≤ 85 N

Materials

Mouldings	Thermoplastic resin, glass-fibre filled, UL 94-V0
Contacts	Copper alloy

* only for type MH 24 + 7

¹⁾ Explanation of performance levels see chapter 00

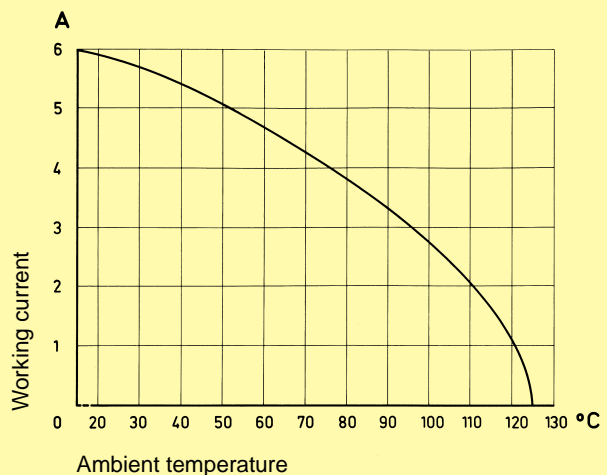
Mating conditions	see chapter 00
Coding systems	see page 03.26

Current carrying capacity

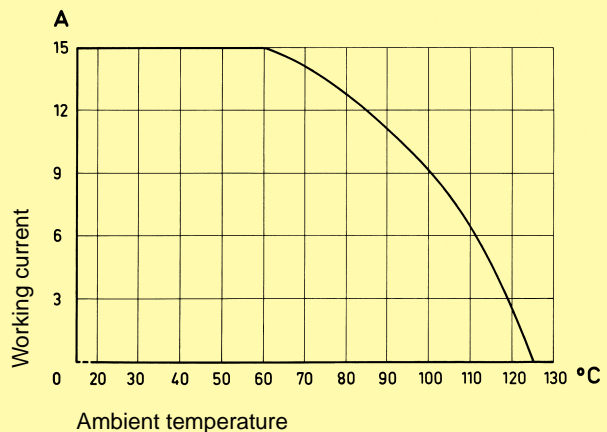
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the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

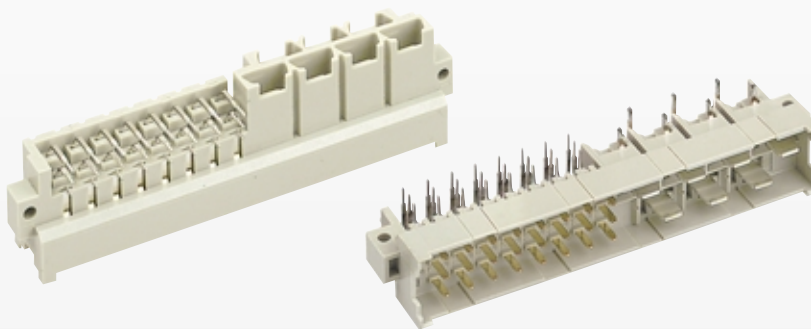
Control and test procedures according to DIN IEC 60512

Electronic section



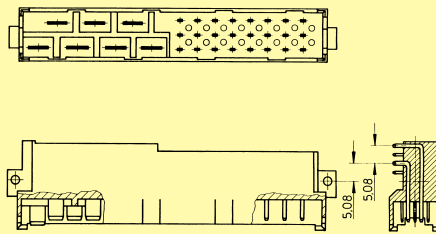
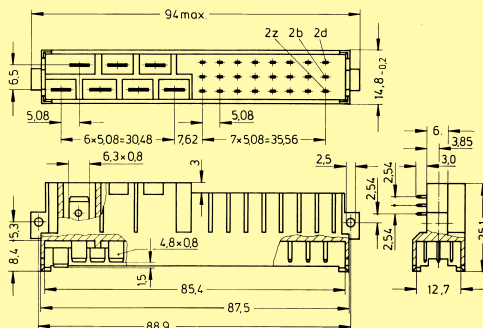
Heavy duty section



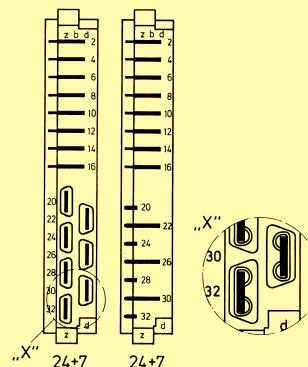
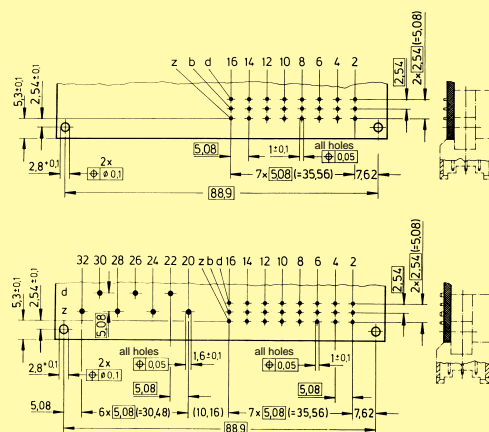
$$\begin{array}{ccc} 24 & + & 7 \\ \text{F} & + & \text{H} \end{array}$$


Identification	Number of contacts	Part No. 3	Performance levels according to DIN 41 612. 2	Explanation chapter 00 1
Male connector for faston 6.3 x 2.5				
1 leading contact (position z 32)	24 + 7		09 06 031 6921	09 06 031 2921
2 leading contacts (position z 2 + z 32)	24 + 7		09 06 031 6923	
Male connector with angled solder pins				
1 leading contact (position z 32)	24 + 7		09 06 131 6922	
2 leading contacts (position z 2 + z 32)	24 + 7		09 06 131 6924	

Angled solder pins



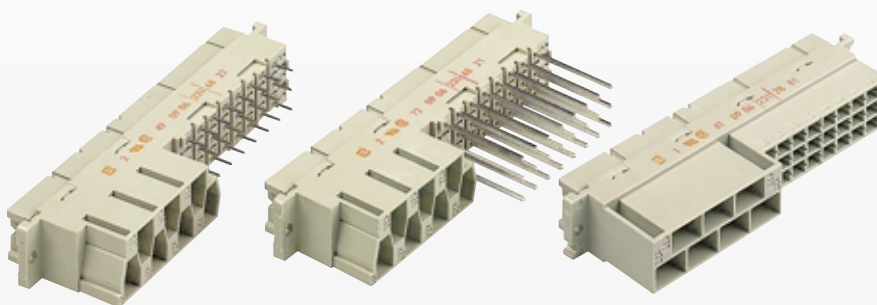
Contact arrangement
View from termination side



Dimensions in mm

Number of contacts

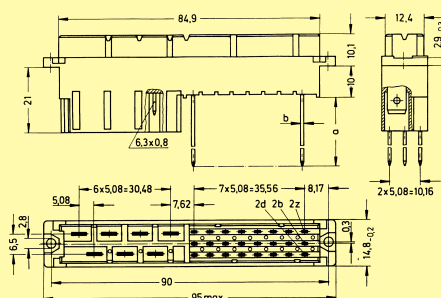
24 + 7
F + H



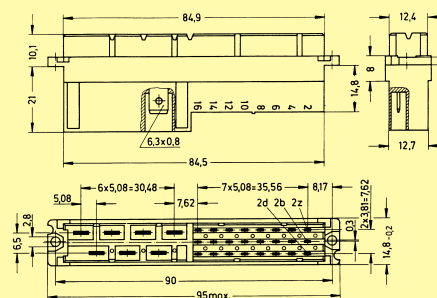
Female connectors

Identification	Number of contacts	Part No. 3	Performance levels according to DIN 41 612. Explanation chapter 00 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 chapter 02	24 + 7			09 06 231 2881

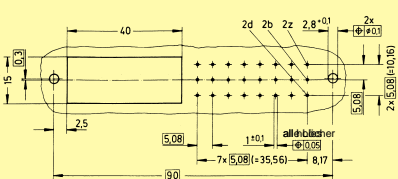
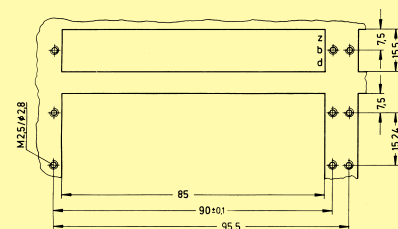
Types
power to 15 A



a	b
4.5	0.6
22	1

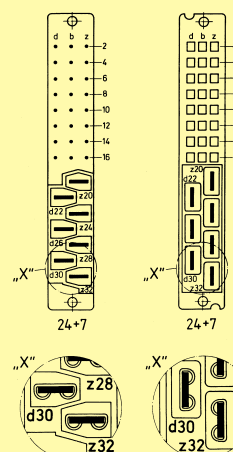


Panel cut out



Board drillings

Contact arrangement
View from termination side



Shell housing for female connector with crimp contacts
see chapter 20

Dimensions in mm