ELECTRONIC SECTION

Number of contacts 21, 24 + 7

Contact spacing (mm)

2.54 x 5.08 Male connector Female connector 5.08

Working current

6 A max. see current carrying capacity chart

Clearance ≥ 1.6 mm Creepage \geq 3 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.}

Contact resistance

1.55 kV

 \leq 15 m Ω wrap, solder termination \leq 20 m Ω including crimp connection

according to the safety regulations of the

equipment. Explanations see chapter 00

Electrical termination

Solder pins for pcb connection Ø 1 \pm 0.1 mm acc. to IEC 60 326-3 Wrap posts 1 x 1 mm diagonal 1.34-1.45 mm Crimp terminal 0.09-1.5 mm²

Contact surface Contact zone

Selectively plated according to performance level1)

HEAVY DUTY SECTION*

Number of contacts

15 A max.

7

Working current see current carrying capacity chart

Clearance ≥ 4.5 mm Creepage \geq 8.0 mm Working voltage

The working voltage also depends on the clearance and creepage dimensions on the according to the safety regulations of the equipment. Explanations see chapter 00

pcb itself, and the associated wiring Test voltage U_{r.m.s.} 3.1 kV Contact resistance \leq 8 m Ω

Electrical termination

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 60 097

Contact surface

Hard silver plated Contact zone

BOTH PARTS

Insulation resistance $\geq 10^{12} \Omega$ for standard articles \geq 10¹¹ Ω for special NFF articles

> (with part-no. ending 222) - 55 °C ... + 125 °C

Temperature range

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

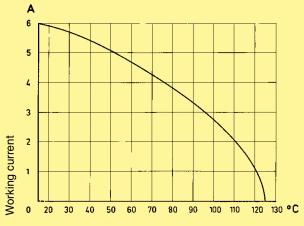
Copper alloy Contacts

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.

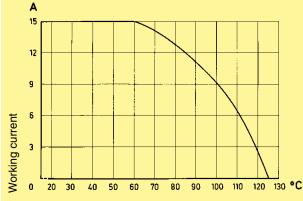
Control and test procedures according to DIN IEC 60512

Electronic section



Ambient temperature

Heavy duty section

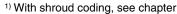


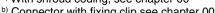
Ambient temperature

* only for type MH 24 + 7

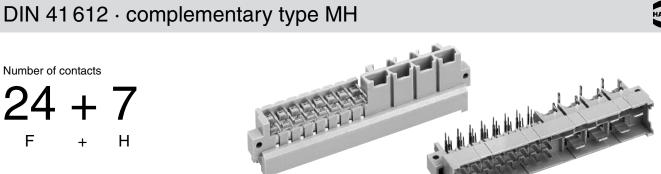
1) Explanation of performance levels see chapter 00

Mating conditions see chapter 00 Coding systems see chapter 00



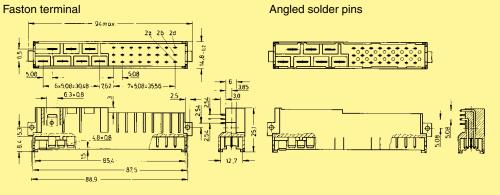


With shroud coding, see chapter 00
 Connector with fixing clip see chapter 00
 Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

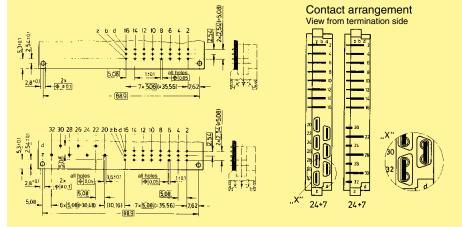


Male connectors

Identification	Number of contacts	Part No. Performan	ce levels according to IEC 60 603-2	. Explanation chapter 00
Male connector for faston 6.3 x 2.5				
1 leading contact (position z 32)	24 + 7		09 06 031 6921 ^{f)}	09 06 031 2921 ^{f)}
2 leading contacts (position z 2 + z 32)	24 + 7		09 06 031 6923 ^{f)}	
Male connector with angled solder pins ¹⁾				
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 09 06 331 6924 ^{b)}	



Board drillings Mounting side



Dimensions in mm

DIN 41 612 · complementary type MH



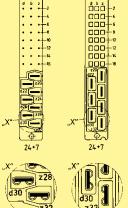
Number of contacts

24 + 7

Female connectors						
Identification	Number of contacts	Part No. Performance 3	levels according to IEC 60 603-2	. Explanation chapter 00		
Female connector with solder pins 4.5 mm ¹⁾	24 + 7		09 06 231 6822 09 06 231 6822 222 ^{f)}	09 06 231 2822		
Female connector with wrap posts 1 x 1 mm ¹⁾	24 + 7		09 06 231 6821	09 06 231 2821 09 06 231 2821 222 ^{f)}		
Female connector for crimp contacts ¹⁾ Order contacts separately, see chapter 03	24 + 7			09 06 231 2881 09 06 231 2881 222 ^{f)}		
	84.9 12.4 5 66.5 08 30.48 775.08 35.56 8.17 22.5 08.10.16 22 1					
Panel cut out		Contact arrangement View from termination side				
	\$\frac{1}{4} \\ \frac{1}{4} \\ \frac					

Board drillings Mounting side

Shell housing for female connector with crimp contacts see chapter 20



Dimensions in mm

¹⁾ With shroud coding, see chapter 00

^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2