Number of contacts 15, 16

14 + 1 leading contact (position z 32) 13 + 2 leading contacts (position z 4 und z 32)

3

Working current 15 A max.

see current carrying capacity chart

Clearance Type H15: ≥ 4.5 mm

Type H3: ≥ 4.0 mm

Creepage Type H15: ≥ 8.0 mm

Type H3: ≥ 3.7 mm

Working voltage

The working voltage also depends on the clearance and creepage dimensions of the pcb itself and the associated wiring

according to the safety regulations of the equipment Explanations see chapter 00

Connectors should not be mated under voltage

Test voltage U_{r.m.s.} Type H15: ≥ 3.1 kV

Type H3: ≥ 2.5 kV

Contact resistance ≤ 8 mΩ

Insulation resistance $\geq 10^{12} \Omega$ for standard articles

 \geq 10 11 Ω for special NFF articles

(with part-no. ending 222)

Temperature range

The higher temperature limit includes the local ambient and heating effects of the contacts under load

– 55 °C ... + 125 °C

Electrical termination

Connector with faston 6.3 x 2.5 (faston blade width x wire gauge) according to DIN 46 245 and DIN 46 247 Solder pins for pcb connections Ø 1.6 ± 0.1 mm DIN EN 60 097

Cage clamp terminal 0.14-1.5 mm²

Insertion and withdrawal force

Type H15: \leq 90 N Type H3: \leq 20 N

Materials

Mouldings Thermoplastic resin, glass-fibre filled, UL 94-V0

Contacts Copper alloy

Contact surface

Contact zone Hard silver plated or

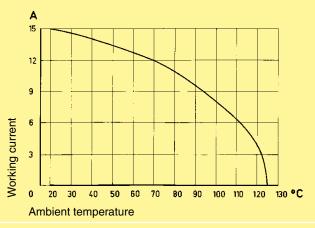
gold plated

Mating conditions see chapter 00 See chapter 00 See chapter 00

Current carrying capacity

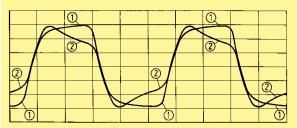
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the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

Control and test procedures according to DIN IEC 60512



Low currents and voltages

Type H standard contacts have a silver plated surface. This precious metal has excellent conductive properties. In the course of a contact's lifetime, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is partly interrupted when the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low currents or voltages small changes to the transmitted signal may be encountered. This is illustrated below where an artifically aged contact representing a twenty year life is compared with a new contact.



Changes to the transmitted signal after artifical ageing

(1) new contact
(2) after ageing

In systems where such a change to the transmitted signal could lead to faulty functions and also in extremely aggressive environments, HARTING recommend the use of gold plated contacts.

Below is a table derived from actual experiences.



The state of the s

Male connectors

iviale connectors			
Identification	Number of contacts	Part No.	Drawing Dimensions in mm
Male connector for faston 6.3 x 2.5		Performance level 1 acc. to IEC 60 603-2	94 max.
	15	09 06 015 2912 ^{1)f)}	63×08 889 25 6 385
1 leading contact (position z 32)	14 + 1	09 06 015 2931 ¹⁾⁽⁾	Contact arrangement View from termination side
2 leading contacts (position z 4 + z 32)	13 + 2	09 06 015 2922 ^{1)f)}	Board drillings
			88,9±01
Male connector with angled solder pins ³⁾			94 mox.
	15	09 06 115 2911 ¹⁾ 09 06 115 2911 222 ^{1)f)}	88.9 2.5 6 3.85 6 3.85
1 leading contact (position z 32)	14 + 1	09 06 115 2932 ¹⁾ 09 06 115 2932 222 ^{1)f)}	Contact arrangement View from termination side
2 leading contacts (position z 4 + z 32)	13 + 2	09 06 115 2921 ¹⁾ 09 06 115 2991 ²⁾	Board drillings 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4
Male connector with straight solder pins	15	09 06 015 2913 ^{1)f)}	
1 leading contact (position z 32)	14 + 1	09 06 015 2914 ^{1)f)}	

Variant with silver plated contacts
 Variant with gold plated contacts
 With shroud coding, see chapter 00

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

DIN 41 612 · Type H15



Number of contacts



Female connectors

Identification	Number of contacts	Part No.	Drawing Dimensions in mm
Female connector for faston 6.3 x 2.5 ¹⁾ Cannot be used in a shell housing	15	Performance level 1 acc. to IEC 60 603-2	84,9 84,9 12,4 6,3×08 6,3×08 6,3×08 Contact arrangement View from termination side "X" "X" "X" "X" "X"
Female connector for faston 6.3 x 2.5 ¹) May be used in a shell housing	15 15	09 06 215 2871 09 06 215 2871 222 ^{f)}	Shell housing see chapter 20
Panel cut out			85 90:01 95.5 4 5.

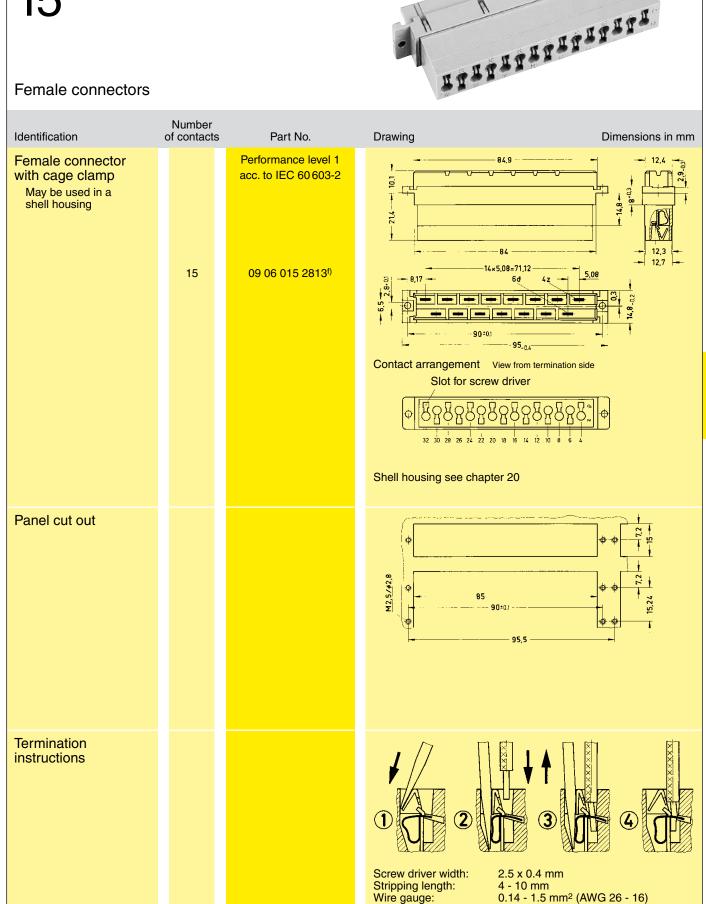
¹⁾ With shroud coding, see chapter 00 ^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

DIN 41 612 · Type H15



Number of contacts

15



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



Female connectors

Identification	Number of contacts	Part No.	Drawing Dimensions in mm
Female connector "low profile" with solder pins ³⁾		Performance level 1 acc. to IEC 60 603-2	84.9
2.7 mm	15	09 06 215 28121)	<u> </u>
4 mm	15	09 06 215 2821 ¹⁾ 09 06 215 2821 222 ^{1)f)} 09 06 215 2892 ²⁾ 09 06 215 2892 222 ^{2)f)}	2.8 min 14x 5.08 = (71,12) 5.08
5.5 mm	15	09 06 215 2890 ²⁾	2.7 4
7 mm	15	09 06 215 2831 ¹⁾ 09 06 215 2891 ²⁾	5.5 7 10
10 mm	15	09 06 215 28411)	Contact arrangement View from termination side
Board drillings			all balan
Mounting side			all holes 1,6:01 4 (0.05) 2x 28-01 2x 4 (0.05) 5,08 5,08

Variant with silver plated contacts
 Variant with gold plated contacts
 With shroud coding, see chapter 00



Female connectors

Identification	Number of contacts	Part No.	Drawing Dimensions in mm
Female connector "low profile" with press-in pins 3.6 mm		Performance level 1 acc. to IEC 60 603-2	84,9 max. X 15.4 15.4 95 max.
Contact space termination side 5.08 mm	15	09 06 215 2854 09 06 215 2854 222 ^{f)}	Board drillings Mounting side
			32
Contact space termination side 2.54 mm	15	09 06 215 2856	84,9 max. X Y 95 max.
			Board drillings Mounting side
			10,16 (=71,12) Reihe 10,16

 $^{^{1)}}$ Refer to recommended configuration of pcb holes, see page 00.25 $^{\rm f)}$ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2