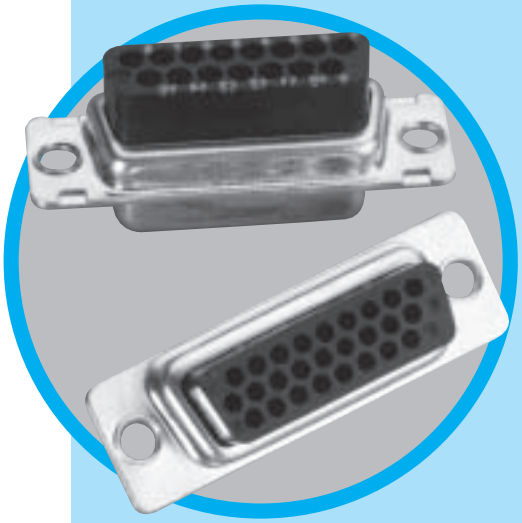
# RR-HR

**D-Sub connectors - Stamped and Formed Contacts**



## REAR RELEASE CRIMP CONNECTORS

CHARACTERISTICS

### Specifications

• Connectors according to MIL C24308

| Materials and Platings | |
|---|---|
| **Shells** | Tinned steel with or without dimples on plug connector |
| **Insulator** | Black glass-filled thermoplastic, UL 94V-0 |
| **Boardlock** | Brass, 3µm to 5µm (118µ" to 197µ") tin over nickel 2µm to 3µm (78µ" to 118µ") |
| **Screwlock** | Brass, 6µm to 10µm (236µ" to 394µ") tin over nickel 2µm to 3µm (78µ" to 118µ") |

| Contacts-Brass | Under plating | Crimp side |
|---|---|---|
| 0.2µm (8µ") gold | 2µm (78µ") nickel | gold flash or tin |
| 0.5µm (20µ") gold | 2µm (78µ") nickel | gold flash or tin |
| 0.76µm (30µ") gold | 2µm (78µ") nickel | gold flash or tin |

| Electrical Data | |
|---|---|
| **Current rating** | 5A |
| **Voltage rating** | 500V AC/rms 50Hz |
| **Withstanding voltage** | **RR:** 1000V AC/rms 50Hz for 1 minute<br>**HR:** 1000V AC/rms 60Hz for 1 minute |
| **Insulation resistance** | **RR:** 5000MΩ<br>**HR:** 1000MΩ |
| **Contact resistance** | 10mΩ max |
| **Wire size** | 20-28 AWG max insulation<br>Ø1.27mm (.05") |

| Climatic Data | |
|---|---|
| **Operating temperature** | -55°C to +125°C |

### Mechanical Data

**Mating and unmating force**

Unit: kg ( lb)

| No. of Cts | | Mate (max) | | Unmate (min) | |
|---|---|---|---|---|---|
| RR | HR | RR | HR | RR | HR |
| 9 (size E) | 15 (size E) | 3.05 (6.74) | 3.81 (8.42) | 0.36 (0.79) | 0.52 (1.14) |
| 15 (size A) | 26 (size A) | 5.09 (11.24) | 5.95 (13.16) | 0.46 (1.01) | 1.05 (2.32) |
| 25 (size B) | 44 (size B) | 8.44 (18.66) | 9.26 (20.46) | 0.81 (1.8) | 1.37 (3.02) |
| 37 (size C) | 62 (size C) | 12.51 (27.65) | 13.48 (29.78) | 1.1 (2.47) | 1.76 (3.88) |
| 50 (size D) | 78 (size D) | 14.65 (32.38) | 15.82 (34.96) | 1.6 (3.56) | 2.02 (4.46) |

DESCRIPTION

Designed for high volume production, Amphenol's rear release crimp connector and contacts provide significant cost saving.

- EMI / RFI shell configuration.
- Removable, reusable contacts.
- Automatic and manual tooling available.

*Simplify your cable assemblies*

APPLICATIONS

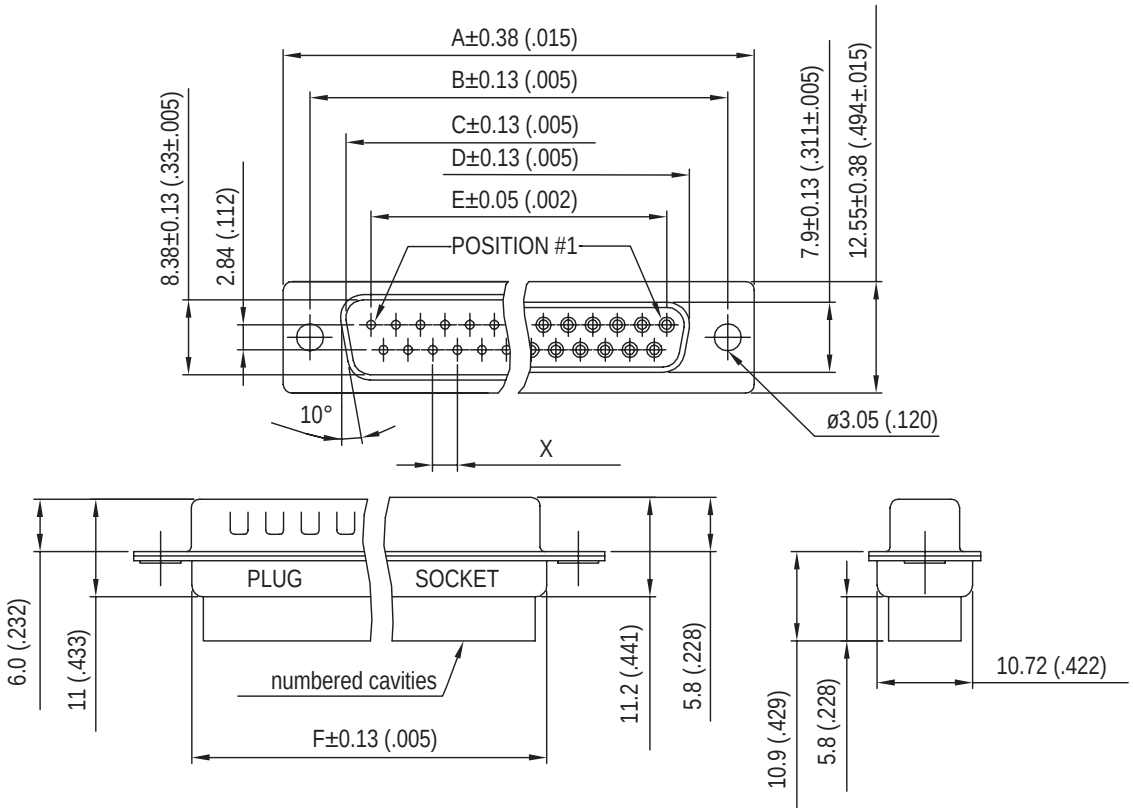
- Commercial
- Industrial
- Telecom
- Any industry standard I / O connections

RR-HR / E11

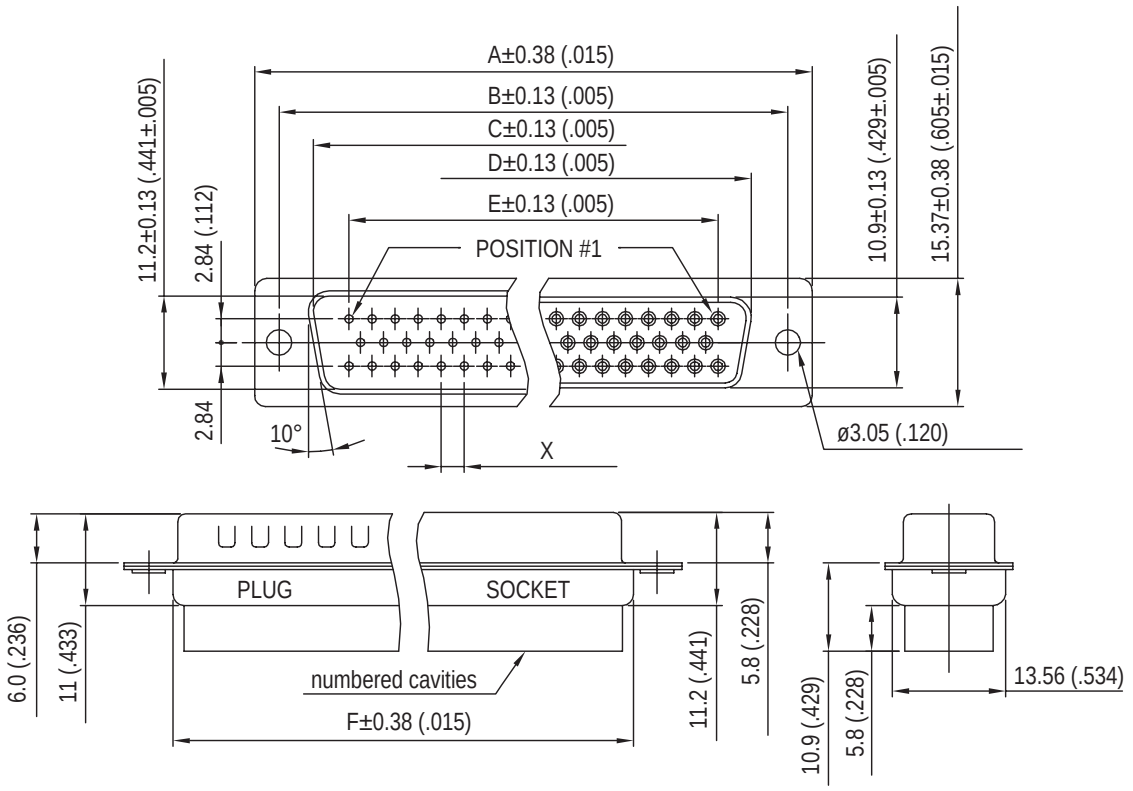
Amphenol RoHS Compliant EU 2002/95/EC

Amphenol

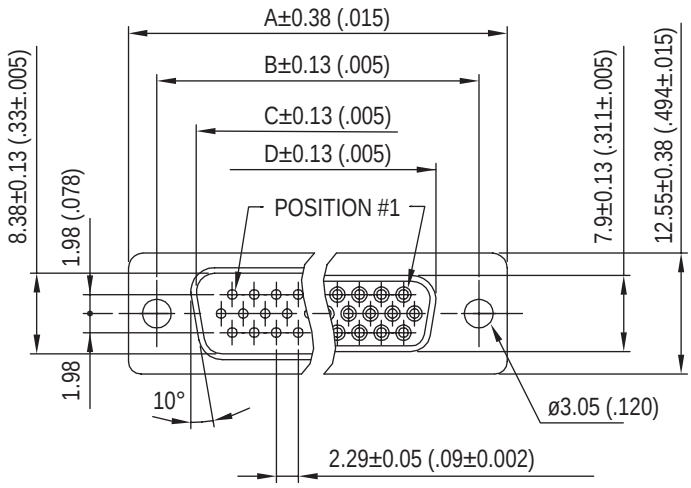
## Standard density RR

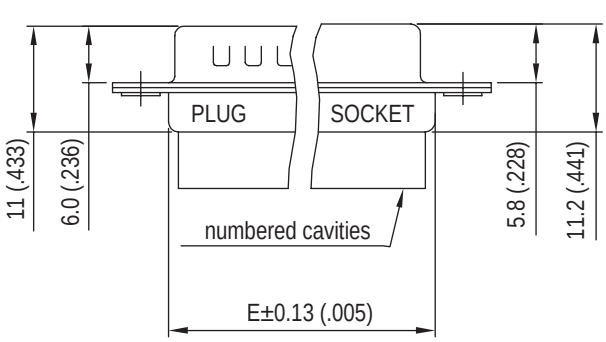


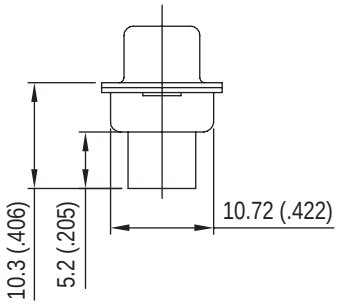

| Nb OF CONTACTS | DIMENSIONS mm (inch) | | | | | | |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | X |
| **9** | 30.84 (1.21) | 24.99 (.98) | 16.92 (.67) | 16.24 (.64) | 11.09 (.44) | 19.28 (.76) | 2.77 |
| **15** | 39.24 (1.54) | 33.32 (1.31) | 24.7 (.972) | 24.56 (.97) | 19.39 (.76) | 27.51 (1.08) | 2.77 |
| **25** | 53.04 (2.09) | 47.04 (1.85) | 38.96 (1.53) | 38.38 (1.51) | 33.24 (1.31) | 41.30 (1.63) | 2.77 |
| **37** | 69.32 (2.73) | 63.50 (2.50) | 55.42 (2.18) | 54.76 (2.16) | 49.86 (1.96) | 57.71 (2.27) | 2.77 |
| **50** | 67 (2.64) | 61.11 (2.41) | 52.86 (2.08) | 52.34 (2.06) | 44.32 (1.75) | 55.3 (2.18) | 2.77 |



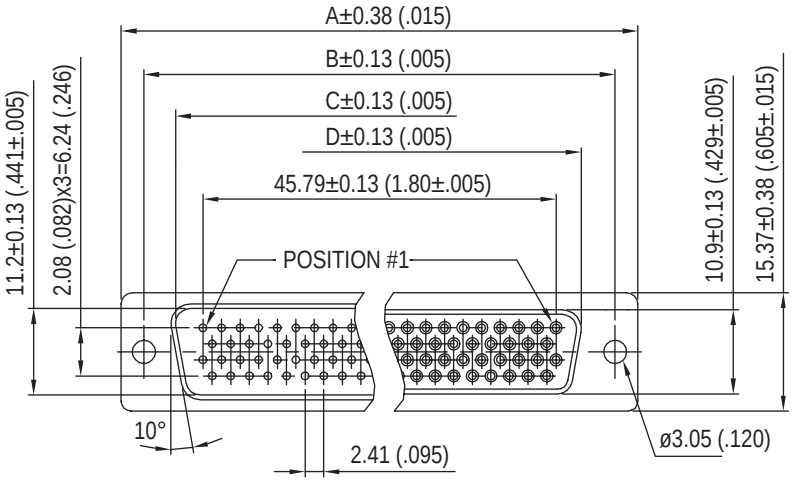
## High density HR

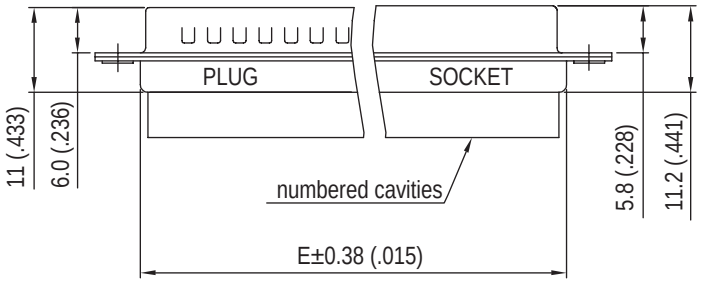


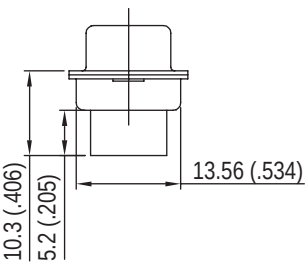




| Nb OF CONTACTS | DIMENSIONS mm (inch) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| **15** | 30.84 (1.21) | 24.99 (.98) | 16.92 (.67) | 16.24 (.64) | 19.28 (.76) |
| **26** | 39.24 (1.54) | 33.32 (1.31) | 24.7 (.972) | 24.56 (.97) | 27.51 (1.08) |
| **44** | 53.04 (2.09) | 47.04 (1.85) | 38.96 (1.53) | 38.38 (1.51) | 41.30 (1.63) |
| **62** | 69.32 (2.73) | 63.50 (2.50) | 55.42 (2.18) | 54.76 (2.16) | 57.71 (2.27) |
| **78** | 67 (2.64) | 61.11 (2.41) | 52.86 (2.08) | 52.34 (2.06) | 55.3 (2.18) |

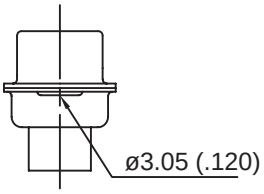


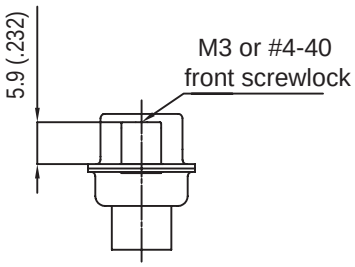



## *Panel mounting option*

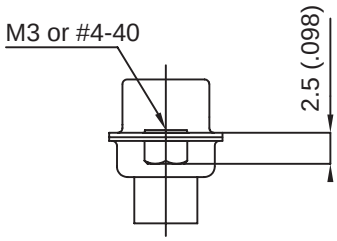
### Standard density:




**Standard rivet ø 3.05mm**
**no digit**

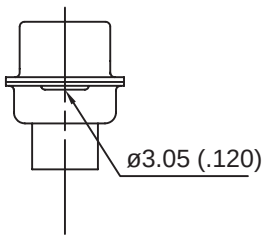



**Fixed front female screwlock**
**VF / VFM**

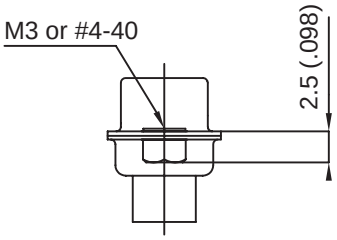



**Threaded rear insert**
**H / G**

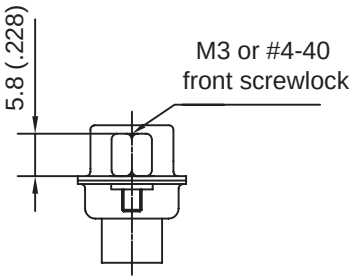
### High density:




**Standard rivet ø3.05mm**
**no digit**



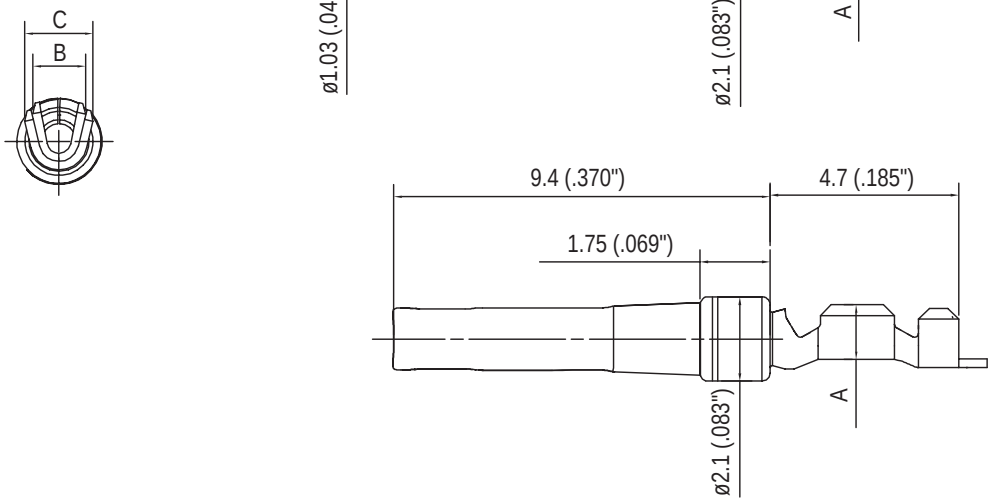

**Threaded rear insert**
**H / G**




**Fixed front female screwlock**
**VF / VFM**

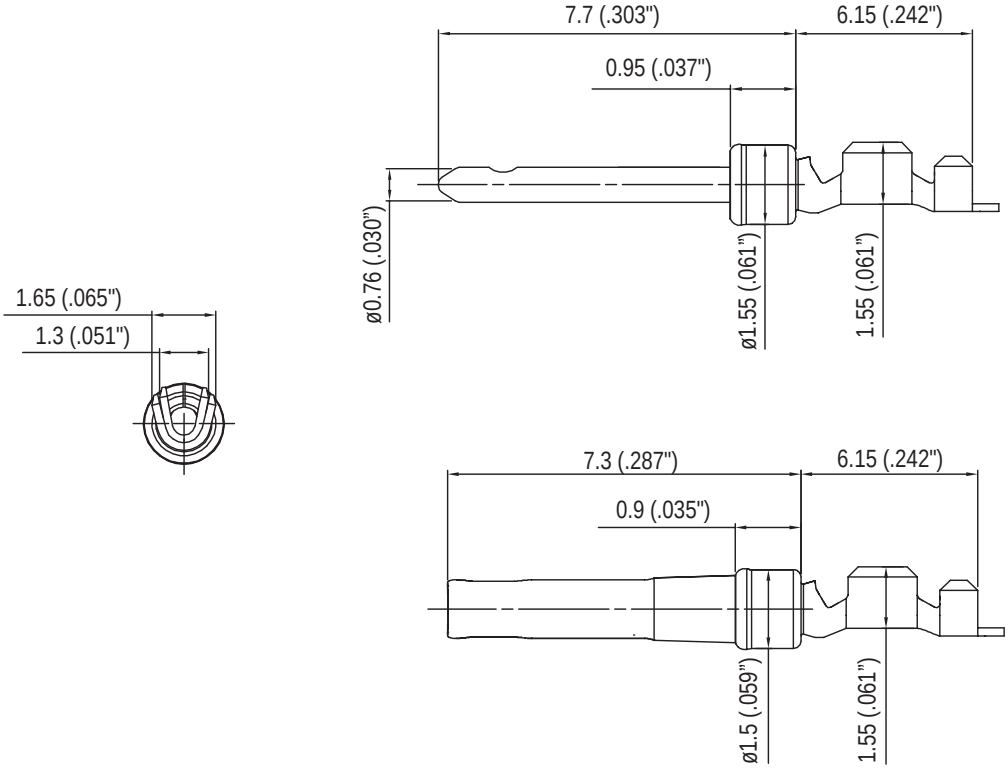
# Contacts

## Standard density:




| AWG | A | B | C |
|---|---|---|---|
| **20-24** | 1.8 (.071") | 1.9 (.075") | 2.5 (.098") |
| **24-28** | 1.4 (.055") | 1.5 (.059") | 1.7 (.066") |

## High density:



# How to order RR (standard density)

## Housings

**L ..... RR ..... ..... ..... ..... .....**

RoHS Compliant

**177:** tinned shell for receptacle
**777:** tinned shell + dimples for plug

**shell size:** E,A,B,C,D

**Rear mounting type:**
**H** = rear insert 4-40
**G** = rear insert M3
**no digit** = standard rivet ø3.1mm
**F** = float mounting

**front mounting type:**
**VF** = front screwlock 4-40
**VFM** = front screwlock M3

**contact type:**
**P** = pin
**S** = socket

**configuration:**
**09,15,25,37,50**

## Contacts

**L 17 RR ..... ..... ..... .....**

RoHS Compliant

**wire size:**
**D1:** 20 to 24 AWG
**D2:** 24 to 28 AWG

**contact type:**
**M** = male
**F** = female

**full gold plating:**
**01** = Flash Gold
**02** = 0.4µ (15µ")
**04** = 0.76µ (30µ")
**selective gold plating:**
**11** = Flash Gold + 2µm (78µ") Sn
**12** = 0.4µ (15µ") + 2µm (78µ") Sn
**14** = 0.76µ (30µ") + 2µm (78µ") Sn

**packaging:**
**100** = bulkpack unit (100 cts)
**400** = reel of 400 cts
**2K** = reel of 2000 cts
**10K** = reel of 10000 cts (right feed reel)
**10G** = reel of 10000 cts (left feed reel)

REEL WINDING DIRECTION

Left to right feed reel:G

Right to left feed reel:K

***For special request, please consult factory***

# How to order HR (high density)

## Housings

**L ..... HR ..... ..... ..... ..... .....**

RoHS Compliant

**177:** tinned shell for receptacle
**777:** tinned shell + dimples for plug

**shell size:** E,A,B,C,D

**Rear mounting type:**
**H** = rear insert 4-40
**G** = rear insert M3
**no digit** = standard rivet ø3.05mm

**front mounting type:**
**VF** = front screwlock 4-40
**VFM** = front screwlock M3

**contact type:**
**P** = pin
**S** = socket

**configuration:**
**15,26,44,62,78**

## Contacts

**L 17 HR D2 ..... ..... .....**

RoHS Compliant

**wire size:**
24 to 28 AWG

**contact type:**
**M** = male
**F** = female

**full gold plating:**
**01** = Flash Gold
**02** = 0.4µ (15µ")
**04** = 0.76µ (30µ")
**selective gold plating:**
**11** = Flash Gold + 2µm (78µ") Sn
**12** = 0.4µ (15µ") + 2µm (78µ") Sn
**14** = 0.76µ (30µ") + 2µm (78µ") Sn

**packaging:**
**5K** = reel of 5000 cts (right feed reel)
**5G** = reel of 5000 cts (left feed reel)
**10K** = reel of 10000 cts (right feed reel)
**10G** = reel of 10000 cts (left feed reel)

REEL WINDING DIRECTION

Left to right feed reel:G

Right to left feed reel:K

***For special request, please consult factory***

# Tooling for crimp contacts

## For standard density crimp contacts: 17RR series

| | |
|---|---|
| • contact insertion and removal tool | 17D 438 SP |
| • hand crimp tool for single contacts AWG 20 to 28 | 17D 440 SP |
| • hand crimp tool for reels of 400 contacts | FA 0000 762 |
| crimp dies: AWG 20 to 24 | FA 0000 104 |
| crimp dies: AWG 24 to 28 | FA 0000 102 |
| • stripping box | FE 0400 |
| • automatic crimp machine for reels of 2000 to 10000 contacts | 970 MC |
| crimp dies: AWG 20 to 24 | 968 MC |
| crimp dies: AWG 24 to 28 | 972 MC |

## For high density crimp contacts: 17HR series

| | |
|---|---|
| • automatic crimp machine for reels of 2000 to 10000 contacts | 970 MC |
| crimp dies: AWG 24 to 28 | 973 MC |

Do not hesitate to contact us for further information

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LifeElectronics
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