

# RR-HR

D-Sub connectors – Stamped and Formed Contacts

## REAR RELEASE CRIMP CONNECTORS



MAIN CHARACTERISTICS

### Specifications

- Connectors according to MIL C24308

Materials and platings		
<b>Shells</b>	Steel yellow chromated over zinc or tinned steel with or without dimples on plug connector	
<b>Insulator</b>	Black glass-filled thermoplastic, UL 94V-0	
<b>Rear insert</b>	Brass, 3µm up to 5µm (118µ" up to 197µ") tinned over nickel 2µm up to 3µm (78µ" up to 118µ")	
<b>Screwlock</b>	Brass, 6µm up to 10µm (236µ" up to 394µ") tinned over nickel 2µm up to 3µm (78µ" up to 118µ")	

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

Climatic Data	
<b>Operating temperature</b>	-55°C to +105°C

Mechanical Data					
<b>Mating and unmating force</b>					
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

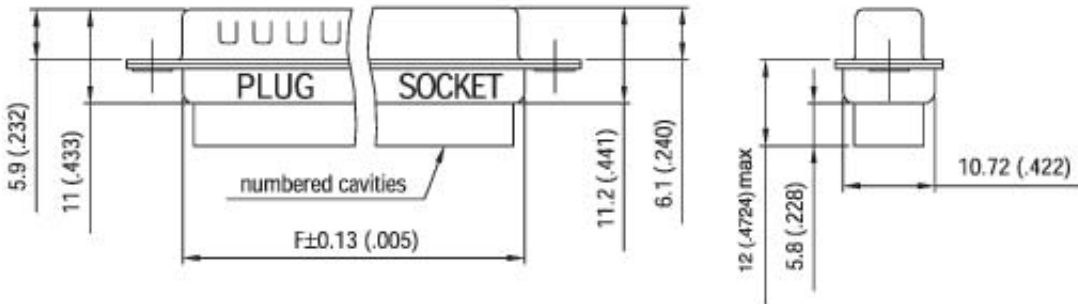
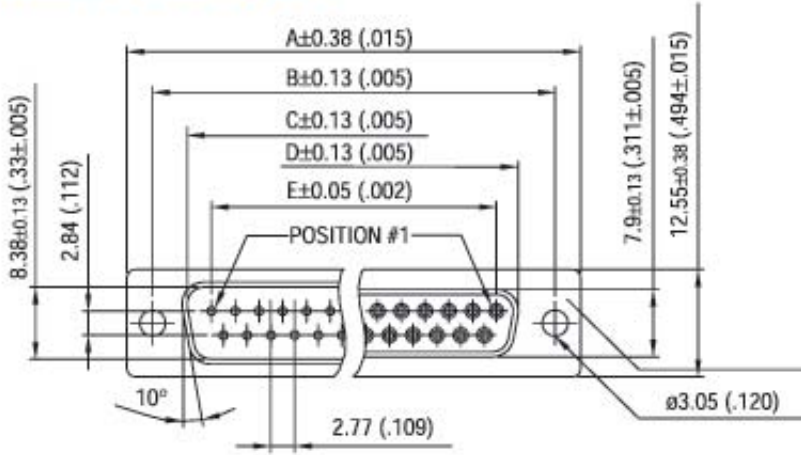
- Industrial
- Telecom
- Any industry standard I / O connections



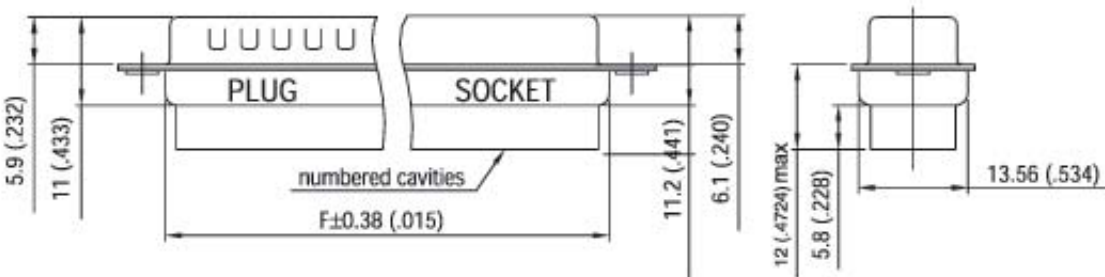
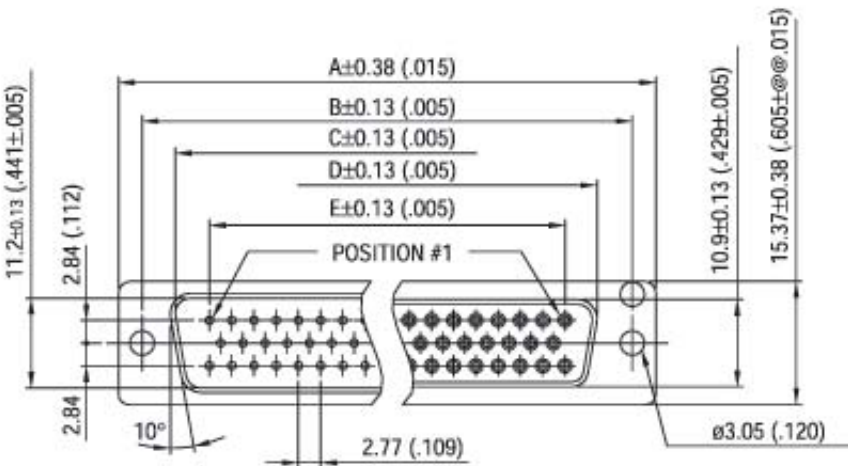
**Amphenol**

RR-HR / E11

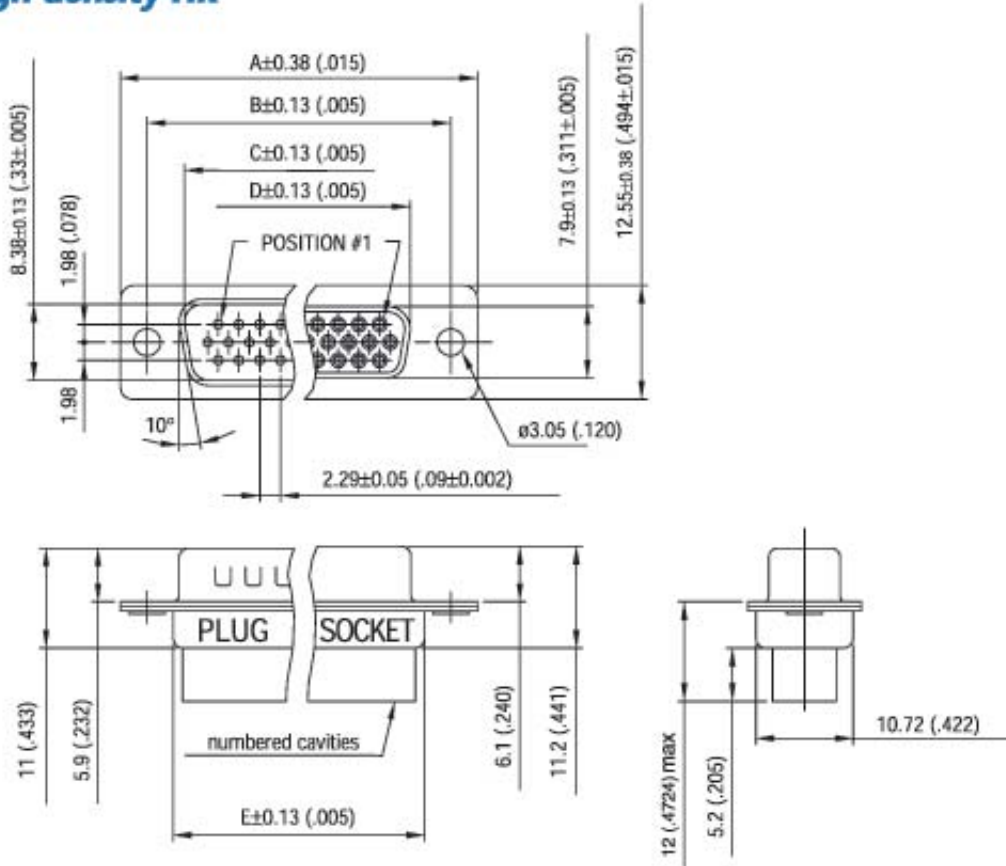
Standard density RR



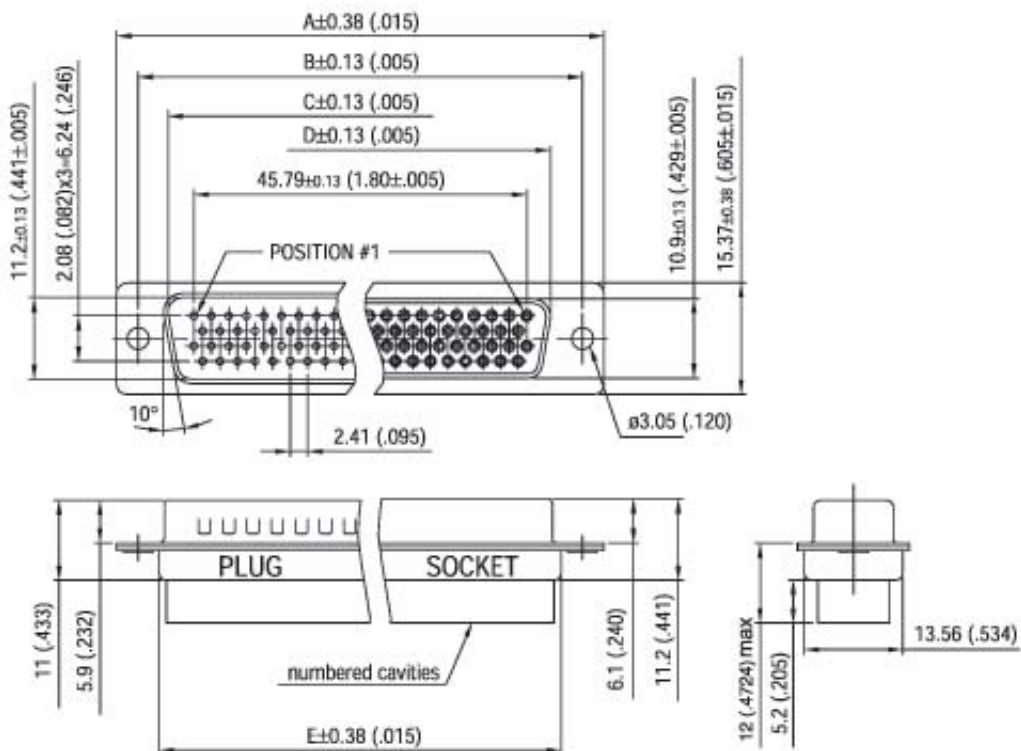
Nb OF CONTACTS	DIMENSIONS mm (inch)					
	A	B	C	D	E	F
9	30.84 (1.21)	24.99 (.98)	16.92 (.67)	16.24 (.64)	11.09 (.44)	19.28 (.76)
15	39.24 (1.54)	33.32 (1.31)	24.7 (.972)	24.56 (.97)	19.39 (.76)	27.51 (1.08)
25	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	33.24 (1.31)	41.30 (1.63)
37	69.32 (2.73)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



## High density HR

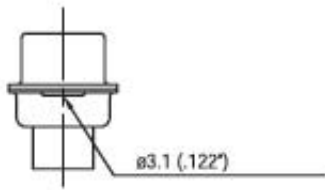


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44	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	41.30 (1.63)
62	69.32 (2.73)	63.50 (2.50)	55.42 (2.18)	54.76 (2.16)	57.71 (2.27)
78	67 (2.64)	61.11 (2.41)	52.86 (2.08)	52.34 (2.06)	55.3 (2.18)

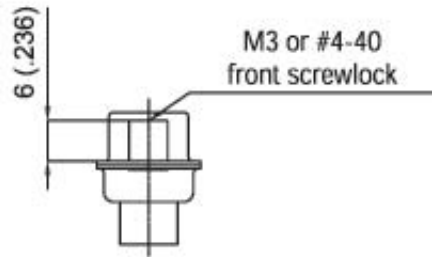


**Panel mounting option**

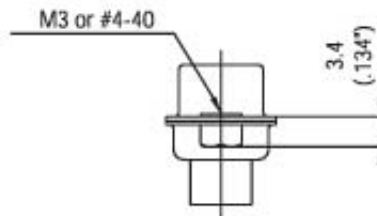
**Standard density:**



Standard rivet  $\varnothing 3.1\text{mm}$   
**no digit**

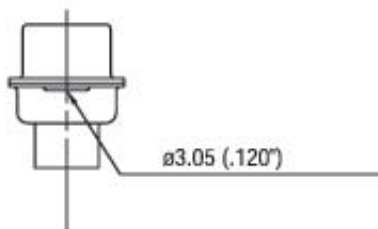


Fixed front female screwlock  
**VF / VFM**

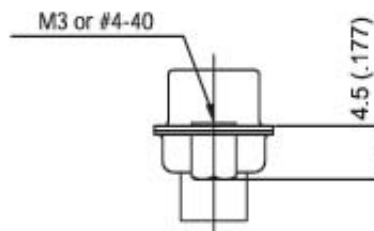


Threaded rear insert  
**H / G**

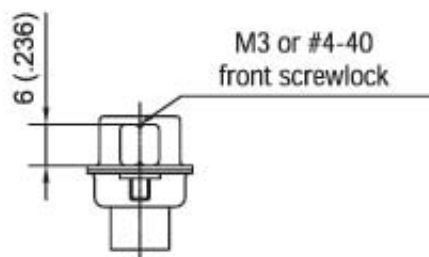
**High density:**



Standard rivet  $\varnothing 3.05\text{mm}$   
**no digit**



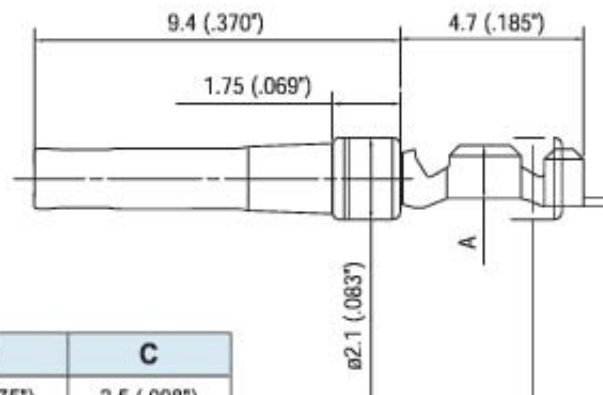
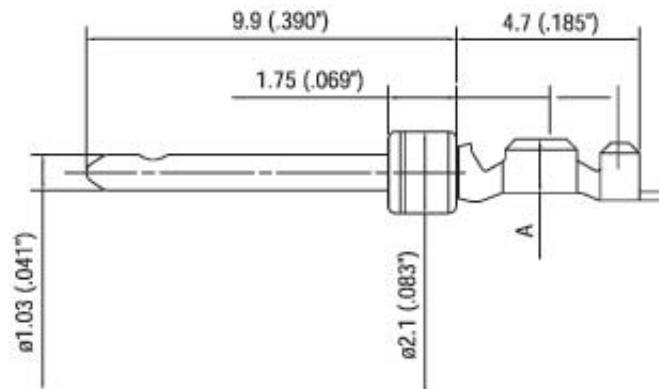
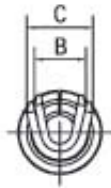
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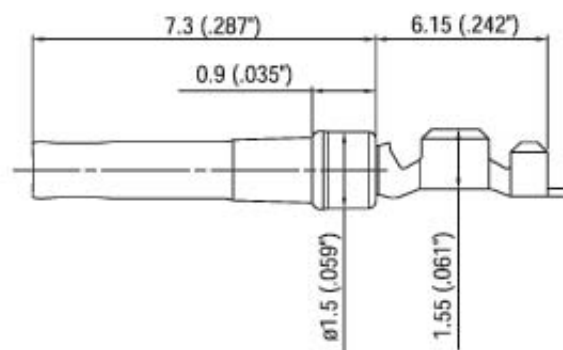
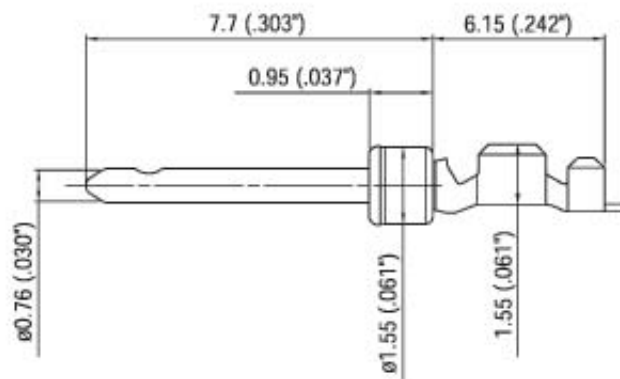
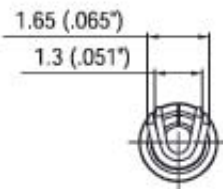
## Contacts

### Standard density:



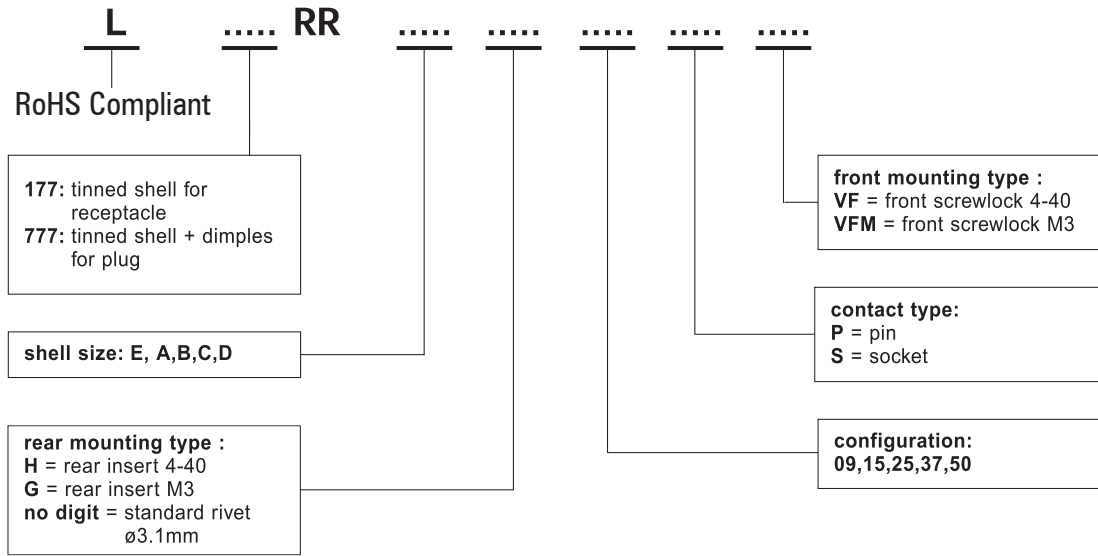
AWG	A	B	C
20-24	1.8 (.071")	1.9 (.075")	2.5 (.098")
24-28	1.4 (.055")	1.5 (.059")	1.7 (.066")

### High density:

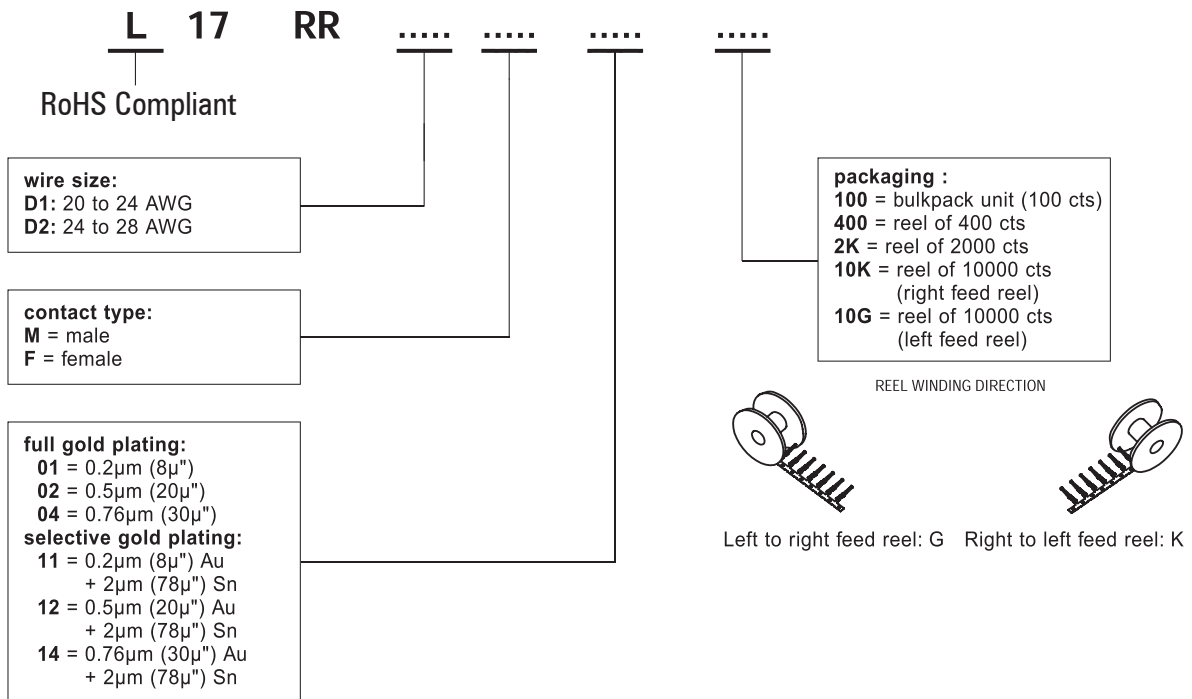


## How to order RR (standard density)

### Housings



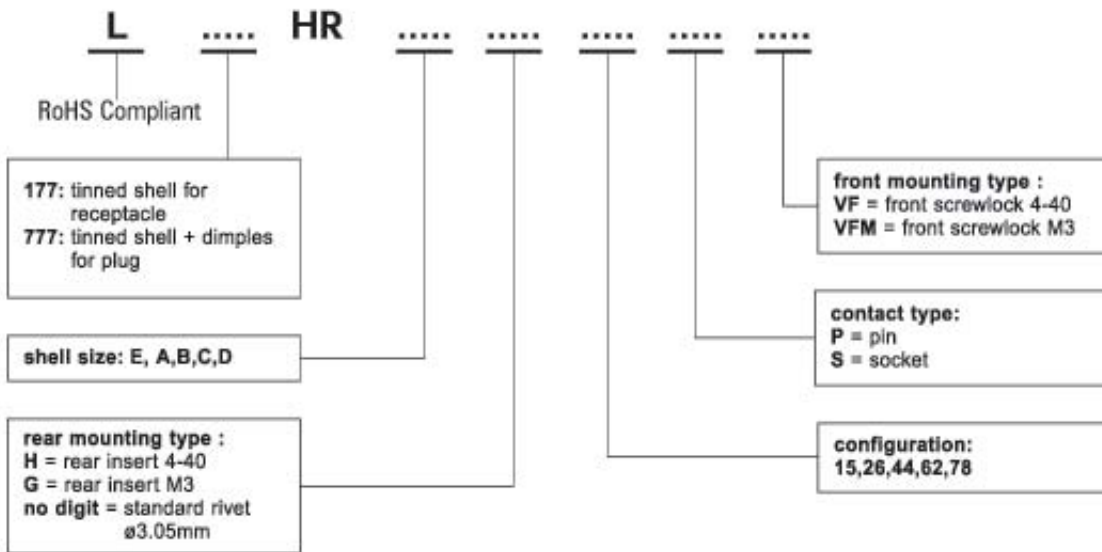
### Contacts



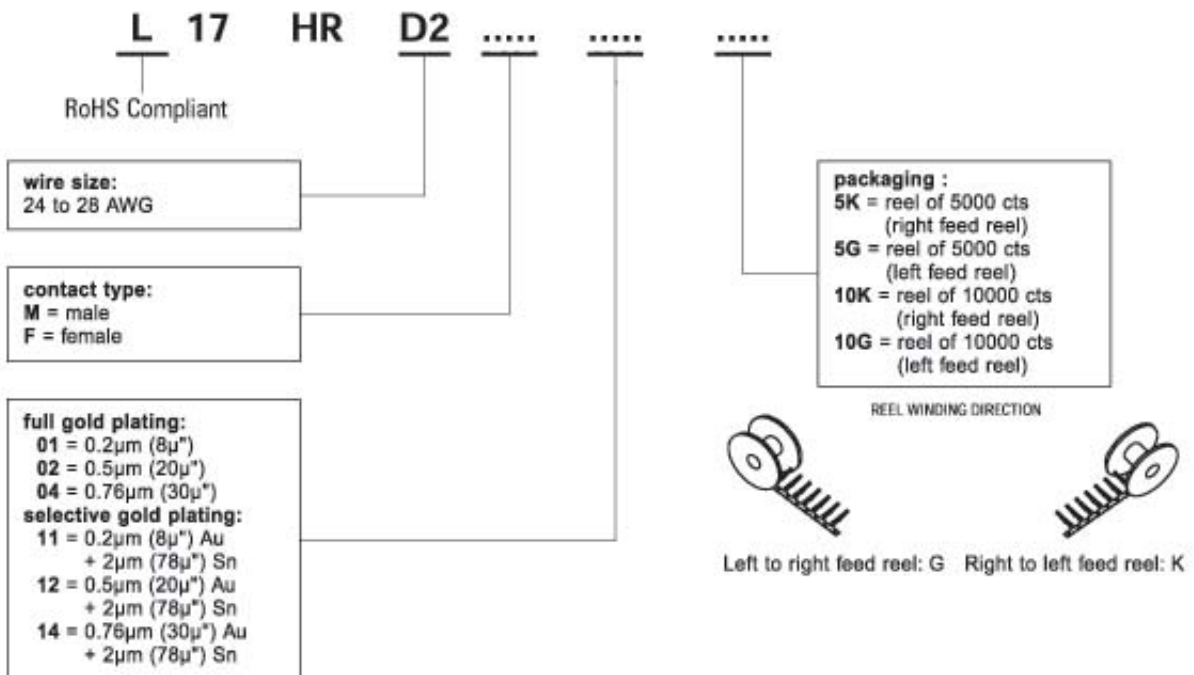
**For special request, please consult factory**

## How to order HR (high density)

### Housings



### Contacts



**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



# Amphenol

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