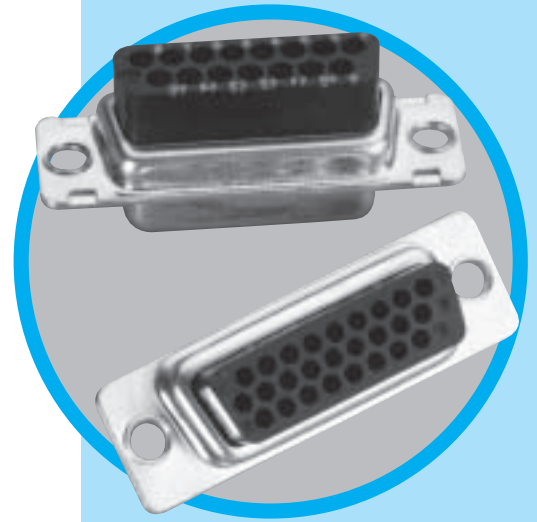


RR-HR

D-Sub connectors - Stamped and Formed Contacts

REAR RELEASE CRIMP CONNECTORS



Specifications

- Connectors according to MIL C24308

Materials and Platings		
Shells	Tinned steel with or without dimples on plug connector	
Insulator Boardlock	Black glass-filled thermoplastic, UL 94V-0 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 HR: 1000V AC/rms 60Hz for 1 minute
Insulation resistance	RR: 5000MΩ HR: 1000MΩ
Contact resistance	10mΩ max
Wire size	20-28 AWG max insulation 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)

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*

- Commercial
- 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	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

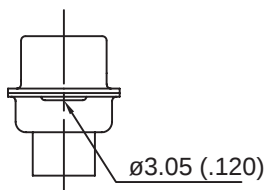


Nb OF CONTACTS	DIMENSIONS mm (inch)				
	A	B	C	D	E
15	30.84 (1.21)	24.99 (.98)	16.92 (.67)	16.24 (.64)	19.28 (.76)
26	39.24 (1.54)	33.32 (1.31)	24.7 (.972)	24.56 (.97)	27.51 (1.08)
44	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	41.30 (1.63)
62	69.32 (2.73)	63.50 (2.50)	55.42 (2.18)	54.76 (2.16)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

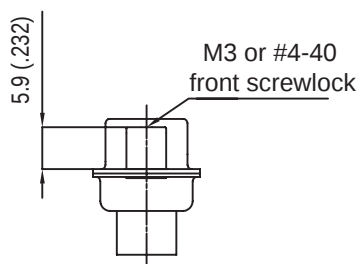


Panel mounting option

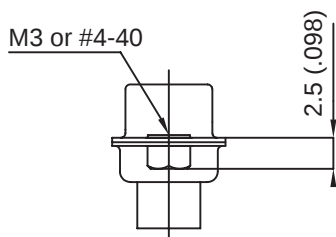
Standard density:



Standard rivet $\varnothing$ 3.05mm
no digit

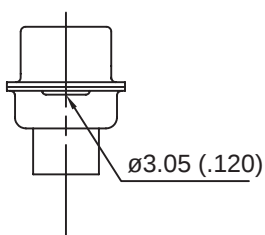


Fixed front female screwlock
VF / VFM

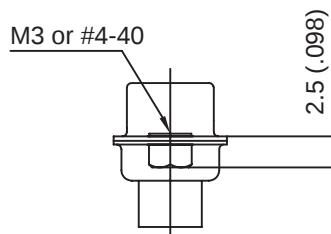


Threaded rear insert
H / G

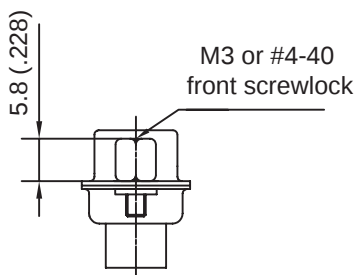
High density:



Standard rivet $\varnothing$ 3.05mm
no digit



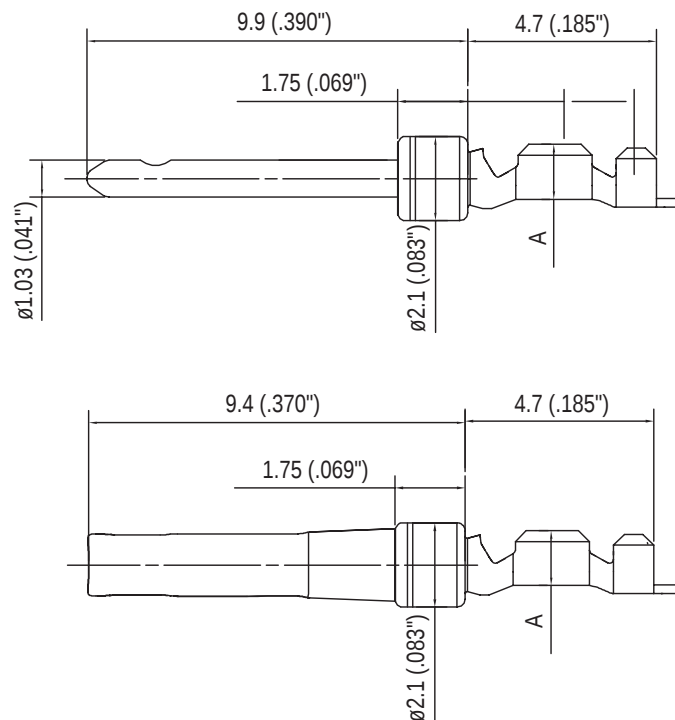
Threaded rear insert
H / G



Fixed front female screwlock
VF / VFM

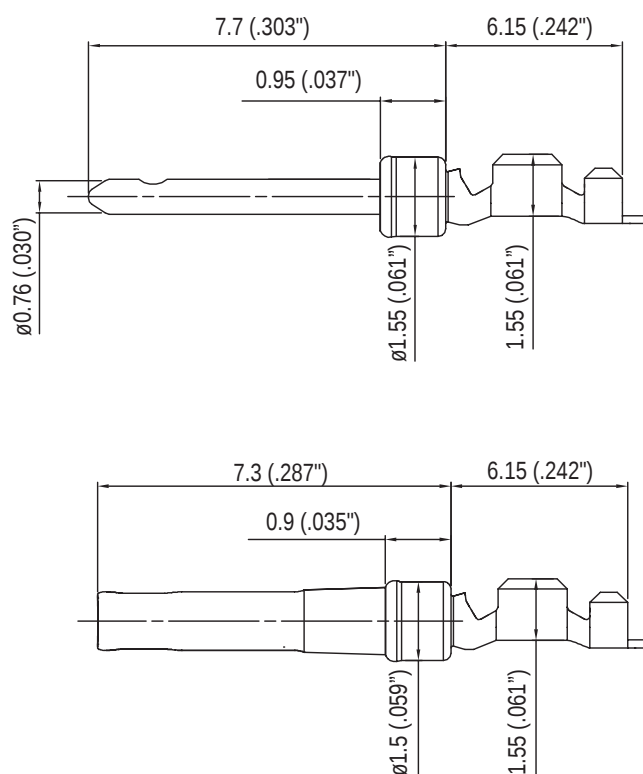
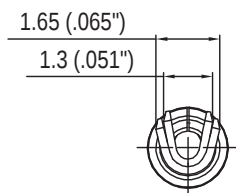
Contacts

Standard density:



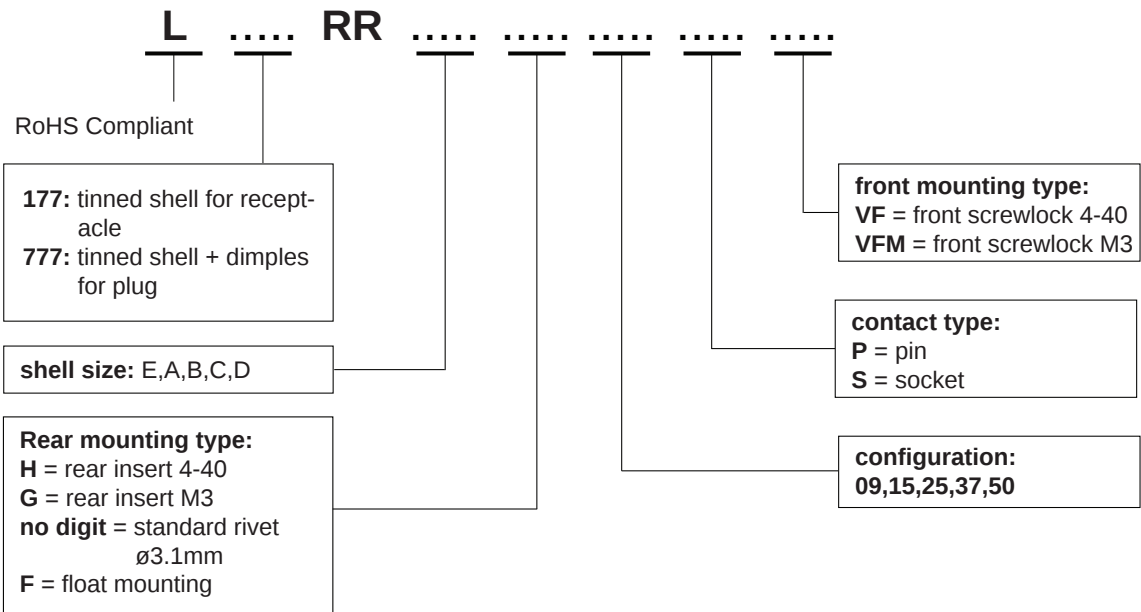
AWG	A	B	C
20-24	1.8 (.071")	1.9 (.075")	2.5 (.098")
24-28	1.4 (.055")	1.5 (.059")	1.7 (.066")

High density:

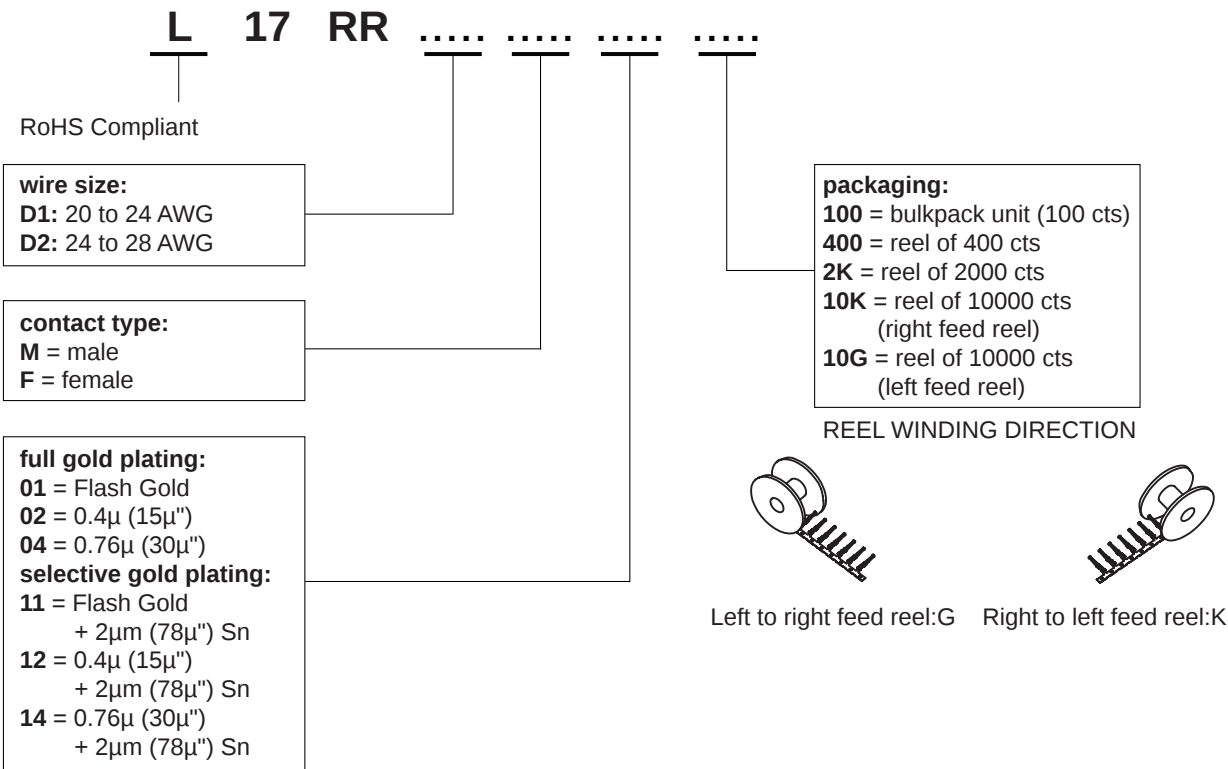


How to order RR (standard density)

Housings



Contacts



For special request, please consult factory

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

The diagram shows a 17-pin connector with the following specifications:

- L**: RoHS Compliant
- 17**: wire size: 24 to 28 AWG
- HR**: contact type: M = male, F = female
- D2**: 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

RR-HR / E11

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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