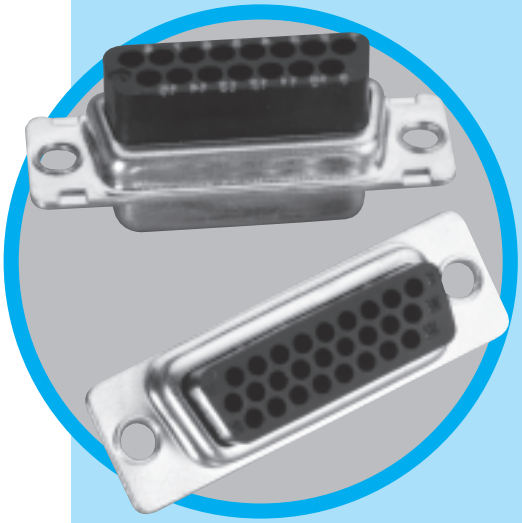
RR-HR

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 up to 5µm (118µ"up to 197µ") tinned over nickel 2µm up to 3µm (78µ" up to 118µ")
Screwlock	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	
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)

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

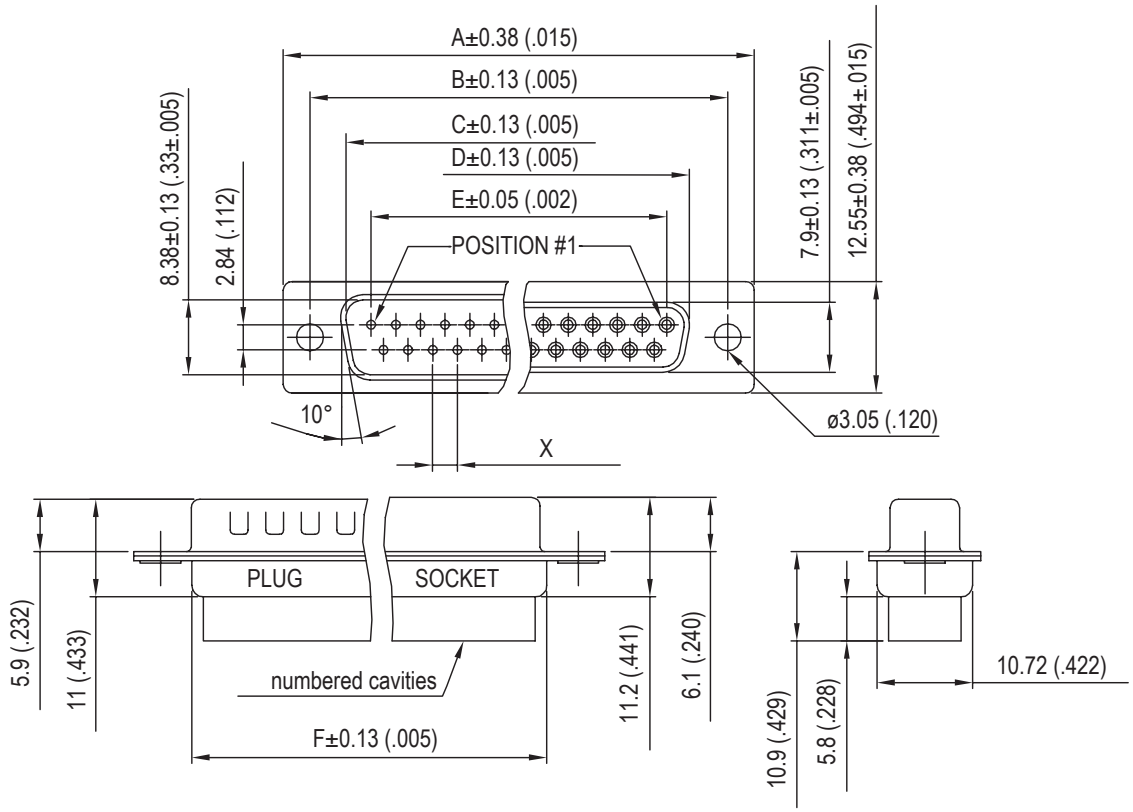
- Commercial
- Industrial
- Telecom
- Any industry standard I / O connections

RR-HR / E11

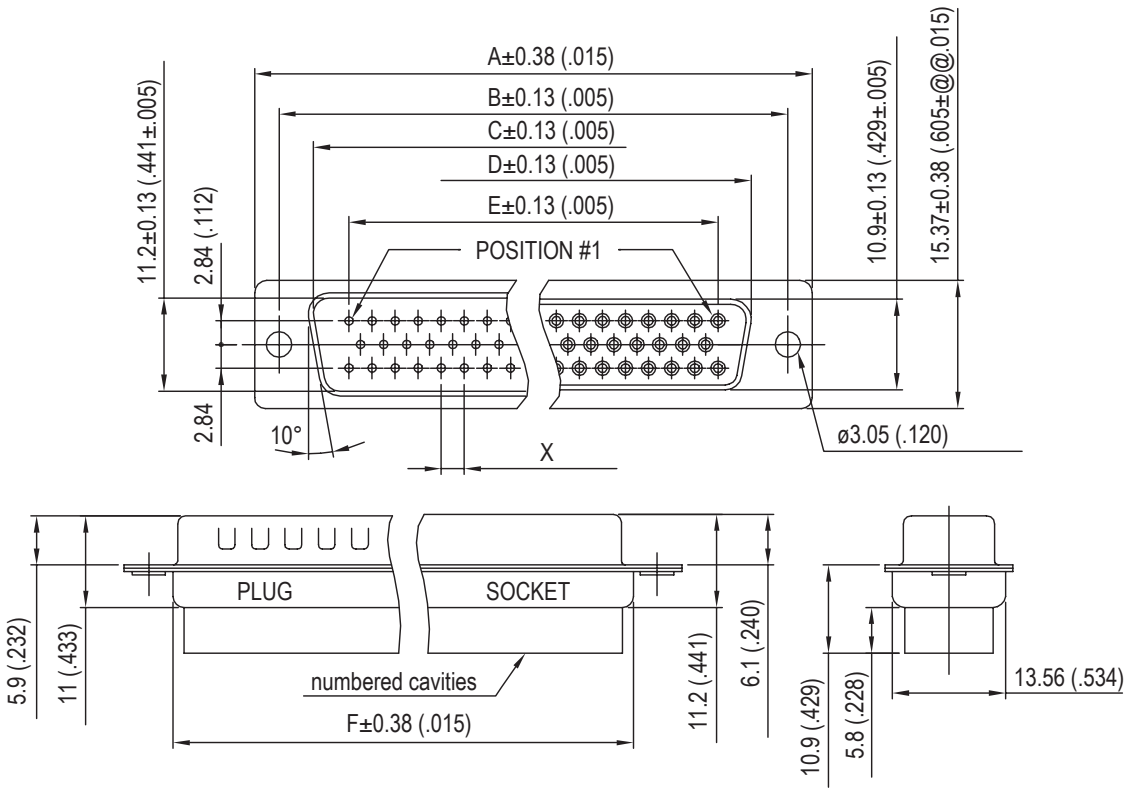
Amphenol RoHS Compliant EU 2002/95/EC

Amphenol

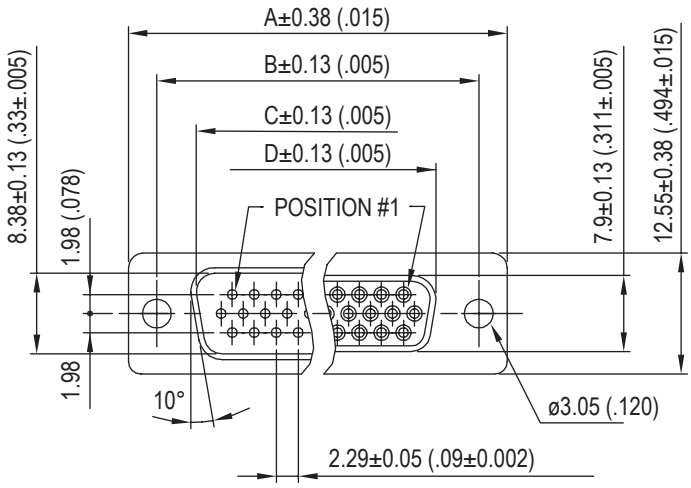
Standard density RR

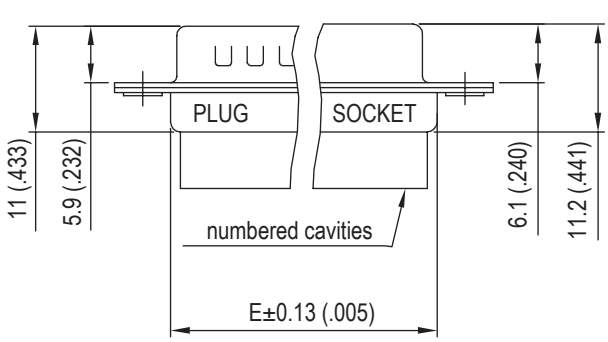


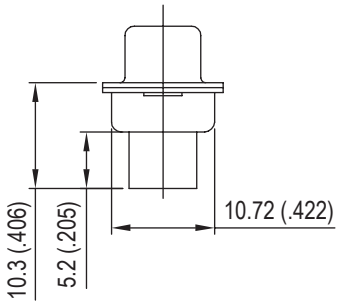
Nb OF CONTACTS	DIMENSIONS mm (inch)						
	A	B	C	D	E	F	X
9	30.84 (1.21)	24.99 (.98)	16.92 (.67)	16.24 (.64)	11.09 (.44)	19.28 (.76)	2.74
15	39.24 (1.54)	33.32 (1.31)	24.7 (.972)	24.56 (.97)	19.39 (.76)	27.51 (1.08)	2.74
25	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	33.24 (1.31)	41.30 (1.63)	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



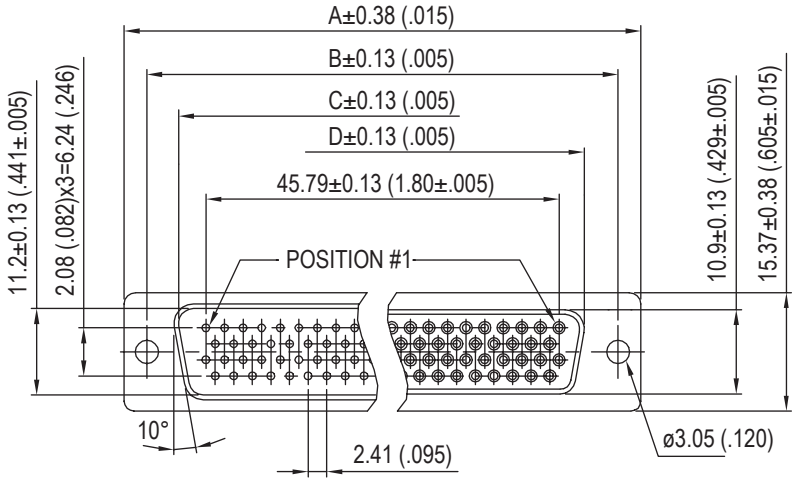
High density HR

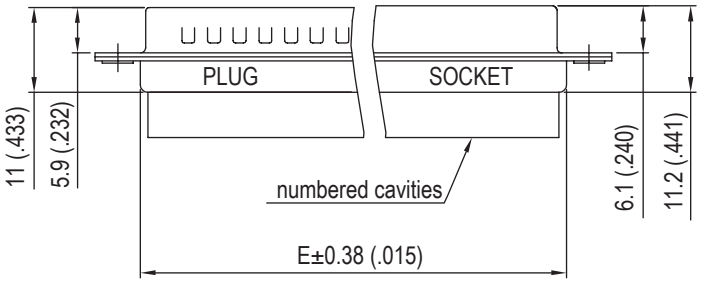


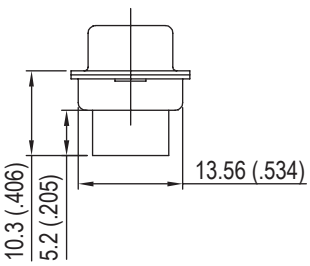




Nb OF CONTACTS	DIMENSIONS mm (inch)				
	A	B	C	D	E
15	30.84 (1.21)	24.99 (.98)	16.92 (.67)	16.24 (.64)	19.28 (.76)
26	39.24 (1.54)	33.32 (1.31)	24.7 (.972)	24.56 (.97)	27.51 (1.08)
44	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	41.30 (1.63)
62	69.32 (2.73)	63.50 (2.50)	55.42 (2.18)	54.76 (2.16)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

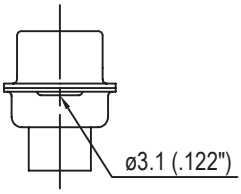




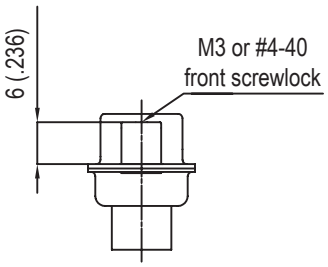


Panel mounting option

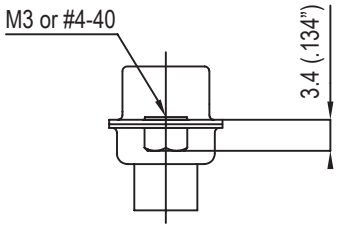
Standard density:



Standard rivet ø 3.1mm
no digit

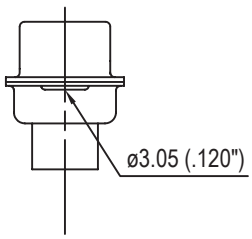


Fixed front female screwlock
VF / VFM

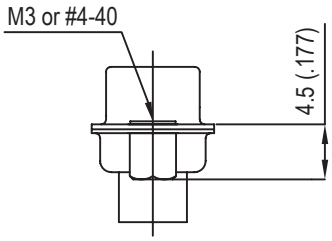


Threaded rear insert
H / G

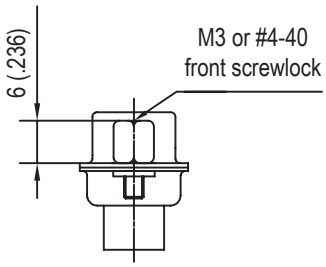
High density:



Standard rivet ø3.05mm
no digit



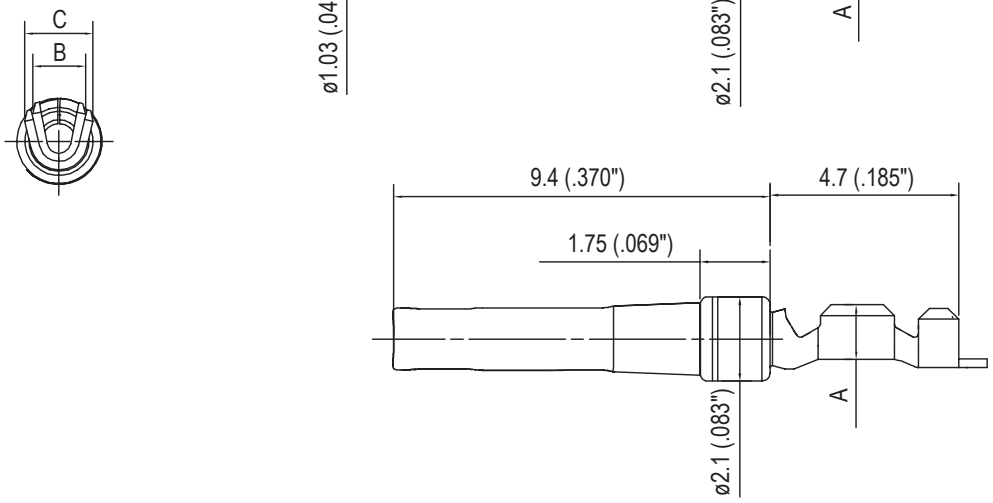
Threaded rear insert
H / G



Fixed front female screwlock
VF / VFM

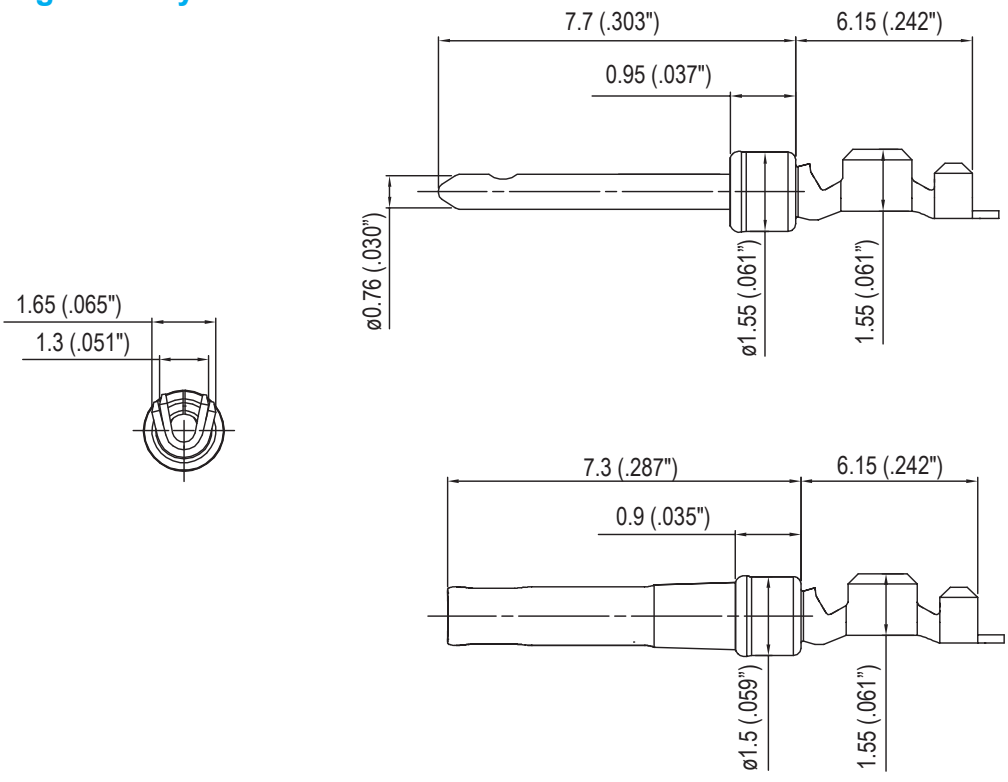
Contacts

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

Amphenol

Amphenol IT & Communication Products
Block A3/A4, The 4th Industrial District of
Industrial Headquarters, Dong Keng Road
Gong Ming Town, Shen Zhen China
Fax:+86(0)755 2754 9955

Technical Support
Tel:+86(0)755 2717 7945
Info-dsub@amphenol.com.cn
http://www.dsubconnector.com

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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331