Amphenol's D-Subminiature connectors are part of an industry standard for applications requiring robust and reliable connectors. These proven D-Subminiature connectors are one of the most popular Input/Output interconnects, addressing a wide variety of applications in Telecommunications, Data, Consumer Industrial, Military, Instrumentation and Medical. Since many years Amphenol hasbeen offering a wide range of D-Subminiature connectors to meet various design requirements including those in harsh environment.

The standard density D-Subminiature series are widely used for numerous applications in many market segments. Amphenol offers Delta-D (single shell design) and Frugal-D (two shell design) under this category. Standard density D-subminiature connectors available in solder bucket, straight and angled version. They come with a large number of mounting options.



FEATURES

- A Basic I/O connector comes with five shell size and housing design
- Has a D-shaped shell design
- Meets DIN 41652 and MIL-C-24308 dimensional standards
- Available in Straight, Angle, Wire Wrap, Solder Bucket, Crimp terminations
- Delta-D design (1 shell + 1 housing) with stamped & formed contacts
- Various PCB and Panel mounting accessory options available
- Hoods available in plastic, metalized and metallic form with locking screws
- Lead-free and RoHS compliant

BENEFITS

- Most popular Rugged and sturdy I/O connector

Supports the need for polarisation

- Interchangable and intermateable with other makes
- Support both PCB & Cable mounting requirements
- Price competitive
- Wide variety of choices for secure connection
- Supports cable connection; Prevents risks of pulling up and accidental un-mating
- Meets environmental, health and safety requirements

TARGET MARKETS/APPLICATIONS



Asymmetric Digital Subscriber Line (ADSL) Base Station Switching Transmission



Set-top Box



Desktop and Laptop Storage System Router and Server



Automotive Diagnostics
Control Drives
Energy Meter
Gaming Machine
Test Equipment
Office Automation
POS & Handheld terminal
Power Supplies
Parking Meter
Printer and Copier
Renewable Energy
Robotics
Surveillance Camera
Avionics



Medical Instrument



Military Equipment

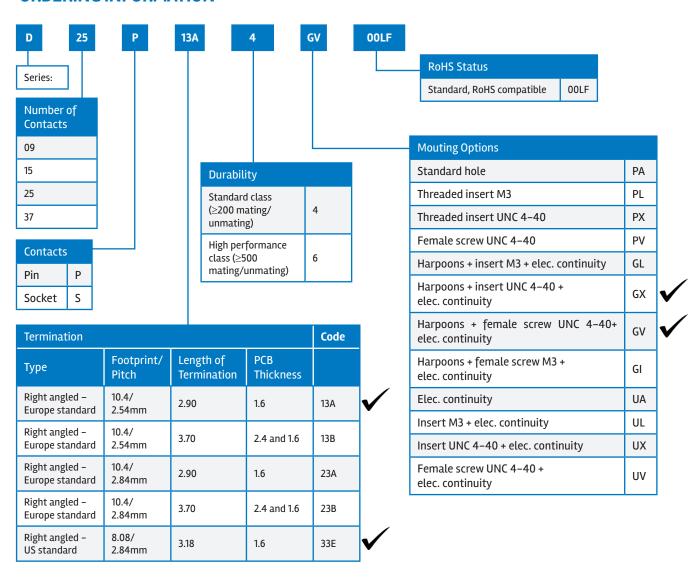
RIGHT ANGLE SOLDER TO BOARD

UL RECOGNISED FILE E66906

• In compliance with DIN 41652

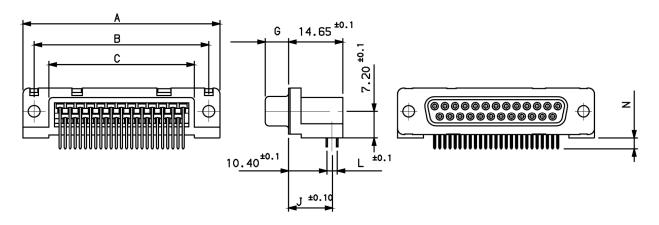


ORDERING INFORMATION

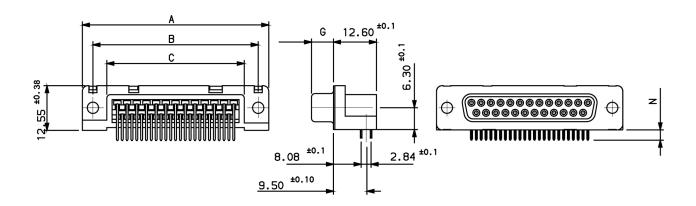


SPECIFIC DIMENSIONS

EUROPE STANDARD



US STANDARD



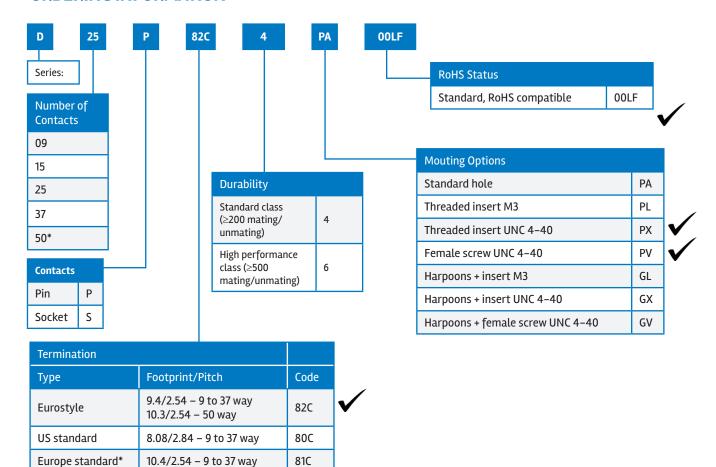
						J±0,10		L±0,10		N ^{±0,30}		
		A±0,38	38 B ±0,12	±0,12 ±0,10	G -0/+0.25	Termin	Termination		Termination		Termination Length	
						13	23	13	23	13A 23A	13B 23B	33E
09	Р	30.81	24.99	16.96	5.90 -0/+0.15	11.67	11.82	2.54	2.84	2.90	3.70	3.18
09	S	30.81	24.99	16.96	6.05	11.67	11.82	2.54	2.84	2.90	3.70	3.18
15	Р	39.14	33.32	25.18	5.90-0/+0.15	11.67	11.82	2.54	2.84	2.90	3.70	3.18
15	S	39.14	33.32	25.18	6.05	11.67	11.82	2.54	2.84	2.90	3.70	3.18
25	Р	53.03	47.04	39.12	5.70	11.67	11.82	2.54	2.84	2.90	3.70	3.18
25	S	53.03	47.04	39.12	6.05	11.67	11.82	2.54	2.84	2.90	3.70	3.18
37	Р	69.32	63.50	55.68	5.70	11.67	11.82	2.54	2.84	2.90	3.70	3.18
51	S	69.32	63.50	55.68	6.05	11.67	11.82	2.54	2.84	2.90	3.70	3.18

RIGHT ANGLE PRESS FIT



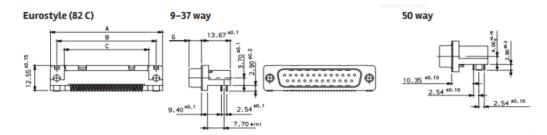


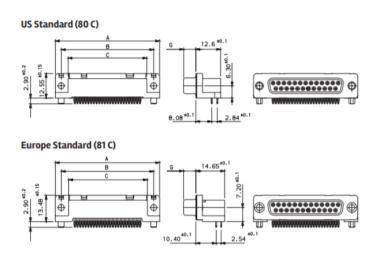
ORDERING INFORMATION



^{*}Only for Eurostyle version Preferred Option

SPECIFIC DIMENSIONS





		A ^{±0,38}	B ^{±0,12}	C ^{±0,10}	G ^{-0/+0.25}
09	Р	30.81	24.99	16.96	5.90 -0/+0.15
09	S	30.81	24.99	16.96	6.05
15	Р	39.14	33.32	25.18	5.90 ^{-0/+0.15}
15	S	39.14	33.32	25.18	6.05
27	Р	53.03	47.04	39.12	5.70
21	S	53.03	47.04	39.12	6.05
37	Р	69.32	63.50	55.68	5.70
31	S	69.32	63.50	55.68	6.05
50*	Р	67.10	61.11	54.10	5.70
50	S	67.10	61.11	54.10	6.05

*Only for Eurostyle version Preferred Option

SPECIFIC DIMENSIONS

- Application by pressure on insulator
- D-Subminiature insertion kit: 8846 3064 01
- Eye of the needle design

METALLIZED HOLE DIMENSIONS

			Press-fit Contacts	Press-fit Harpoons	
		Drill diameter	Ø 1.15 ref (note 3)	Ø 3.22 ref (note 3)	
		Drilled hole	Ø 1.18 – 1.2	Ø 3.19 – 3.25	
P.C.B hole		Copper plating	25μm min. (recommended 50μ max.)	25μm min. (recommended 50μ max.)	
definition	non	Tin-lead plating	15µm max. (recommended 5µ min.)	15µm max. (recommended 5µ min.)	
(note 1 and 2)	RoHS	Finish hole (after reflow)	Ø 0.94 – 1.09	Ø 3.02- 3.20	
	Dolle	Tin plating	0.8 to 1.2μm	0.8 to 1.2μm	
	RoHS	Finish hole (after reflow)	Ø 1.00 – 1.09	Ø 3.08 – 3.20	

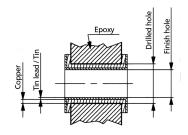
Note 1: These dimensions must be respected to ensure press-fit pin performance

Note 2: According to IEC-352-S specification

Note 3: Vital requirement for press-fit pin performance

PRESS-FIT PERFORMANCE

	Press-fit Contacts	Press-fit Harpoons
Insertion force	≤100 N	≤120 N
Extraction force	≥30 N	≥30 N



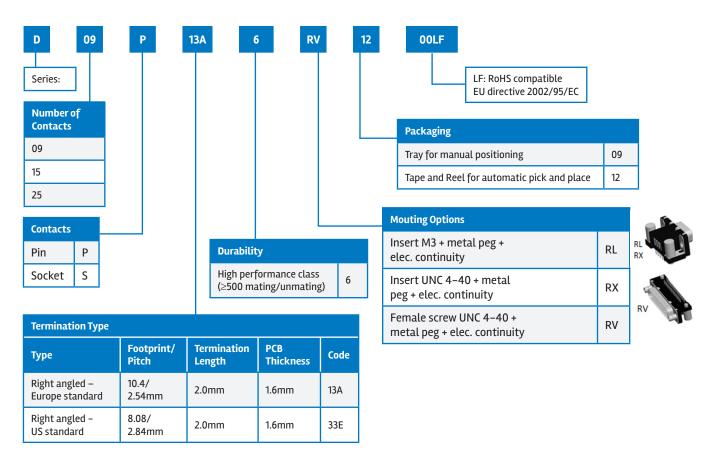
RIGHT ANGLE PIN-IN-PASTE

In compliance with DIN 41652:

- Reflow type: JSTD-020C
- Packaging: IEA-481-B
- Plating: BELLCORE CO GR-1217

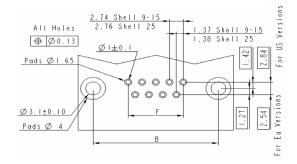


ORDERING INFORMATION



RECOMMENDED LAYOUTS AND PAD DIMENSIONS

Contacts	B ^{±0.10}	F	G
09	24.99	10.96	8.22
15	33.32	19.18	16.44
25	47.04	33.12	30.36



TECHNICAL INFORMATION

MATERIAL

• Shell: Nickel plated

Housing: Thermoplastic HT UL940-V

Contacts: Copper alloy

• Active Part: Gold over nickel

• Termination: Matt tin over nickel

Accessories: Brass

Front Accessories: NickelMetal Pegs: Tin over nickel

ELECTRICAL PERFORMANCE

Current rating: 5A

■ Insulation resistance: \geq 5000M Ω

• Contact resistance: <10m Ω

• Dielectric withstanding voltage: 1000V RMS

MECHANICAL PERFORMANCE

• Mating/unmating cycles: 500 min.

ENVIRONMENTAL

■ Operating Temperature Range: -55°C to 125°C

APPROVALS AND CERTIFICATIONS

• Product lead free in accordance to RoHS 2002/EC/95

TARGET MARKETS/APPLICATIONS



Asymmetric Digital Subscriber Line (ADSL) Base Station Switching Transmission



Set-top Box



Desktop and Laptop Storage System Router and Server



Automotive Diagnostics
Control Drives
Energy Meter
Gaming Machine
Test Equipment
Office Automation
POS & Handheld terminal
Power Supplies
Parking Meter
Printer and Copier
Renewable Energy
Robotics
Surveillance Camera
Avionics



Medical Instrument

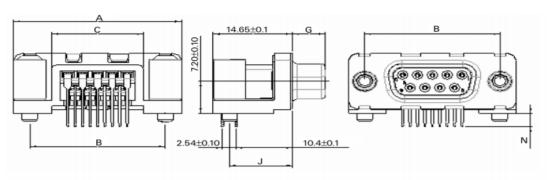


Military Equipment

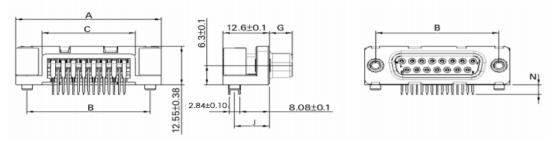
SPECIFIC DIMENSIONS

EUROPE STANDARD

Europe Standard



US Standard



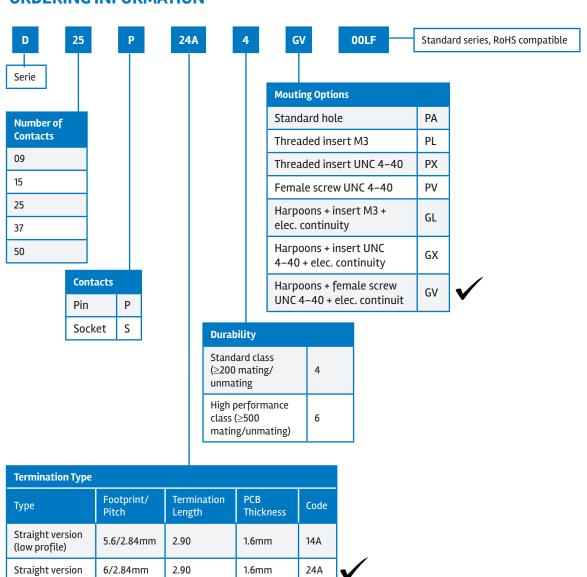
Dime	Dimensions									
						J ^{±0,10}	J ^{±0,10}		N ^{±0,30}	
		A±0,38	B±0,12	C±0,10	G ^{-0/+0.25}	Termination		Terminal Length		
						13	33	13A 33E	13B	
09	Р	30.81	24.99	16.96	5.90 -0/+0.15	11.67	9.50	2.00	2.90	
09	S	30.81	24.99	16.96	6.05	11.67	9.50	2.00	2.90	
15	Р	39.14	33.32	25.18	5.90-0/+0.15	11.67	9.50	2.00	2.90	
l D	S	39.14	33.32	25.18	6.05	11.67	9.50	2.00	2.90	
25	Р	53.03	47.04	39.12	5.70	11.67	9.50	2.00	2.90	
25	S	53.03	47.04	39.12	6.05	11.67	9.50	2.00	2.90	

STRAIGHT SOLDER TO BOARD





ORDERING INFORMATION



Preferred Option 🗸

6/2.84mm

6.9/2.84mm

Straight version

Straight version

3.70

2.90

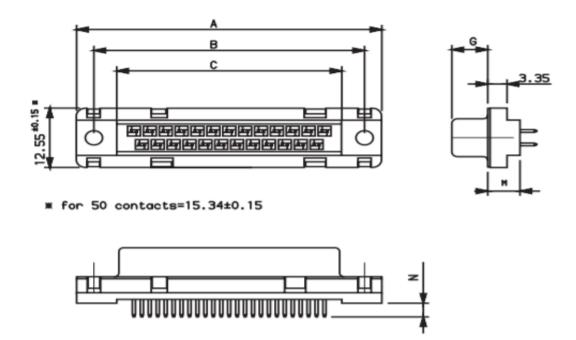
2.4mm

1.6mm

24B

34A

SPECIFIC DIMENSIONS



Dime	Dimensions										
							M ^{±0,10}			N ^{±0,30}	
			012		- 0/ 025	Termin	al		Terminal Length		
		A ^{±0,38}	B ^{±0,12}	C ^{±0,10}	G ^{-0/+0.25}	14	24	34	14A 24A 34A	24B	
09	Р	30.81	24.99	16.96	5.90 -0/+0.15	5.60	6.00	6.90	2.90	3.70	
09	S	30.81	24.99	16.96	6.05	5.60	6.00	6.90	2.90	3.70	
15	Р	39.14	33.32	25.18	5.90-0/+0.15	5.60	6.00	6.90	2.90	3.70	
15	S	39.14	33.32	25.18	6.05	5.60	6.00	6.90	2.90	3.70	
25	Р	53.03	47.04	39.12	5.70	5.60	6.00	6.90	2.90	3.70	
25	S	53.03	47.04	39.12	6.05	5.60	6.00	6.90	2.90	3.70	
37	Р	69.32	63.50	55.68	5.70	5.60	6.00	6.90	2.90	3.70	
31	S	69.32	63.50	55.68	6.05	5.60	6.00	6.90	2.90	3.70	
50	Р	67.10	61.11	54.11	5.70	5.60	6.00	6.90	2.90	3.70	
50	S	67.10	61.11	54.11	6.05	5.60	6.00	6.90	2.90	3.70	

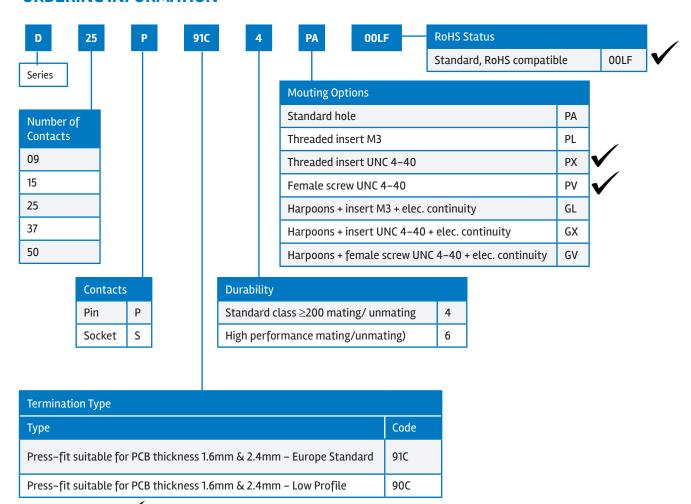
STRAIGHT PRESS-FIT

TL UL RECOGNISED FILE E E66906

- This new Press-fit connectors eliminate soldering process and saves cost
- Compatible with PCB thicknesses of 1.60 mm & 2.40 mm
- The "eye of the needle" termination combined with a special flat rock design (easy application by pressure on insulator) make this product line very attractive

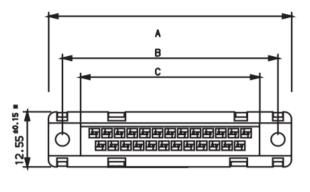


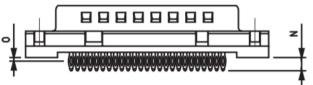
ORDERING INFORMATION

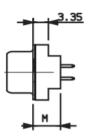


Preferred Option 🗸

SPECIFIC DIMENSIONS







*For 50 contacts: 15.34 ± 0.15 For other dimensions, consult us

Size	A ^{±0,38}	B ^{±0,12}	C ^{±0,10}
09	30.81	24.99	16.96
15	39.14	33.32	25.18
25	53.03	47.04	39.12
37	69.32	63.50	55.68
50	66.93	61.11	53.11

Termination Type	M ^{±0.3}	N ^{±0.3}	O ^{±0.2}
90C	5.60	3.40	1.20
91C	6.00	3.00	0.80

PRESS-FIT FEATURES

- Application by pressure on insulator
- D-Sub insertion kit: 8646 3064 01
- Eye of the needle design

METALLIZED HOLE DIMENSIONS

			Press-fit Contacts	Press-fit Harpoons
		Drill diameter	Ø 1.15 ref (note 3)	Ø 3.22 ref (note 3)
		Drilled hole	Ø 1.18 – 1.2	Ø 3.19 – 3.25
P.C.B hole		Copper plating	25μm min. (recommended 50μ max.)	25μm min. (recommended 50μ max.)
definition	non	Tin-lead plating	15μm max. (recommended 5μ min.)	15μm max. (recommended 5μ min.)
(note 1 and 2)	RoHS	Finish hole (after reflow)	Ø 0.94 – 1.09	Ø 3.02- 3.20
·	Dolle	Tin plating	0.8 to 1.2μm	0.8 to 1.2μm
	RoHS	Finish hole (after reflow)	Ø 1.00 – 1.09	Ø 3.08 – 3.20

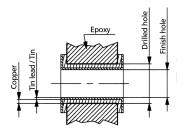
Note 1: These dimensions must be respected to ensure press-fit pin performance

Note 2: According to IEC-352-S specification

Note 3: Vital requirement for press-fit pin performance

PRESS-FIT PERFORMANCE

	Press-fit Contacts	Press-fit Harpoons
Insertion force	≤100 N	≤120 N
Extraction force	≥30 N	≥30 N

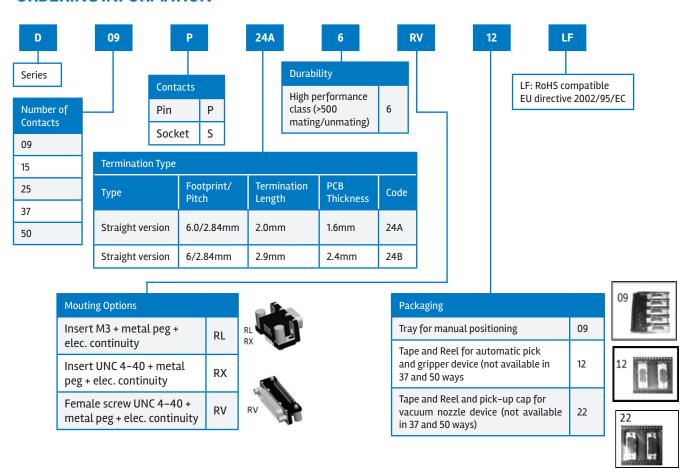


STRAIGHT PIN-IN-PASTE

- In compliance with DIN 41652:
 - Reflow type: JSTD-020C
 - Packaging: IEA-481-B
 - Plating: BELLCORE CO GR-1217

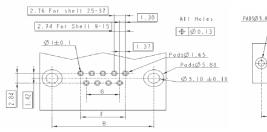


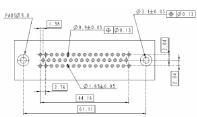
ORDERING INFORMATION



RECOMMENDED LAYOUTS AND PAD DIMENSIONS

Contacts	B ^{±0.10}	F	G
09	24.99	10.96	8.22
15	33.32	19.18	16.44
25	47.04	33.12	30.36
37	63.50	49.68	46.92





TECHNICAL INFORMATION

MATERIAL

• Shell: Steel, nickel plated

■ Housing: HT UL94V-0

• Contacts: Copper alloy

• Active part: Gold over nickel

• Termination: Matt tin over nickel

• Accessories: Brass, bright tin over nickel

ELECTRICAL PERFORMANCE

• Current rating: 5A

■ Insulation Resistance: \ge 5000MΩ

■ Contact Resistance: <10mΩ

■ Dielectric Withstanding Voltage: 1000V RMS

MECHANICAL PERFORMANCE

• Mating/unmating cycles: 500 min.

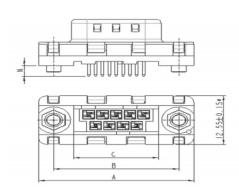
ENVIRONMENTAL

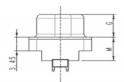
■ Operating Temperature Range: -55°C to 125°C

APPROVALS AND CERTIFICATIONS

Product lead free in accordance to RoHS 2002/EC/95

SPECIFIC DIMENSIONS





For 50 contacts: 15.34±0.15

Dimensions								
		A ^{±0,38}	B ^{±0,12}	C±0,10	G ^{-0/+0.25}	M ^{±0,10}	N ^{±0,30}	
							Terminal Length	
							24A	24B
09	Р	30.81	24.99	16.96	5.90 -0/+0.15	6.00	2.00	2.90
	S	30.81	24.99	16.96	6.05	6.00	2.00	2.90
15	Р	39.14	33.32	25.18	5.90-0/+0.15	6.00	2.00	2.90
	S	39.14	33.32	25.18	6.05	6.00	2.00	2.90
25	Р	53.03	47.04	39.12	5.70	6.00	2.00	2.90
	S	53.03	47.04	39.12	6.05	6.00	2.00	2.90
37	Р	69.32	63.50	55.68	5.70	6.00	2.00	2.90
	S	69.32	63.50	55.68	6.05	6.00	2.00	2.90
50	Р	67.10	61.11	54.11	5.70	6.00	2.00	2.90
	S	67.10	61.11	54.11	6.05	6.00	2.00	2.90

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