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Introduction

INTRODUCTION

With over 60 years of experience and continuous efforts in R&D, Radiall has become Europe's number one source for coaxial connectors. Radiall's position as a market leader has enabled the company to excel in the passive microwave component field for more than 50 years. Radiall's expertise in design, development and manufacturing of passive microwave components is widely acknowledged in today's industry.

Radiall's professional banana plugs consist of two major series and adapters:

THE 4 MM SERIES

- Safety plugs and sockets
- Safety patch cords
- Standard plugs and sockets
- Standard patch cords
- Accessories

THE 2 MM SERIES

- · Plugs and sockets
- · Patch cords
- PCB test points
- 20-way fixed connector
- Short circuit links
- Contact block and ribbon patch cords
- Accessories

ADAPTERS

- 2 mm/4 mm banana adapter
- BNC/2 mm banana adapter
- BNC/4 mm banana adapter
- Banana adapter patch cord
- · Coaxial banana adapter patch cord





















APPLICATIONS

- · Research institutes and laboratories
- Education
- Instrumentations
- · Low voltage
- Electronics
- Engineering









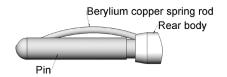
Introduction

FEATURES & BENEFITS

Radiall's in-house technologies ensure high reliable product solutions due to its expertise and advanced design technology.

Radiall's contacts consists of a monobloc pin fitted with a copper beryllium spring finger. Depending on the model, the pin may or may not have a protective sleeve.

	4 MM SERIES		
Contact resistance	0.5 mΩ	1mΩ	
Current rating, max @ 20 °C	30 A	10 A	
Contact durability, min.	10,000 mating cycles		



BENEFITS

- Excellent electrical conduction
- Very low contact resistance
- Robust contact point pressure when connected
- High durability for high number of mating cycles

GLOSSARY OF ABBREVIATIONS

ABBREVIATION SERIES			
4 mm	2 mm	DESTINATION	
B1	BL-I	Insulated plug with solder connection	
B2		Insulated plug with crimp or solder connection	
	BL-PI	Insulated panel plug	
B4	BL	Uninsulated plug	
	BL2-4	Uninsulated threaded plug	
	BLP-4	Uninsulated panel plus with solder connection	
DPI	DL-PL	Insulated panel socket	
DPIS		Insulated safety panel socket	
DP	DLP	Uninsulated panel socket	
	BLP D-2	Uninsulated panel plug/2mm dia. socket	
BDR-4	BDR-2	Stackable plug with quick grip cable clamp	
BDR-SR		Stackable plug, partial safety	
BDR-PR		Stackable plug, partial safety non thermofusible sleeve	
BDM	BLDM	Stackable patch cord	
BDSA		Stackable patch cord, total safety	
BDSR		Stackable patch cord, partial safety	
BM	BLM	Extension patch cord	
DM	DLM	Extension female patch cord	
PTM		Test probe patch cord	
	FL	Contact block	
	ML	Ribbon patch cords	



Finder Guide

SERIES	IMAGE	CA	TEGORY	DESCRIPTION	PAGE
	7 C		Banana plugs	Stackable plug (BDR-SR)	
			Dariaria piags	Stackable plug, non-thermofusible sleeve (BDR-PR)	11
			Panel sockets	Insulated safety panel socket (DPIS)	
				Plug/Plug stackable, retractable sleeve (BDSA)	12
		Safety		Plug/Plug stackable, non-retractable sleeve (BDSA)	12
	series	series	Patch cords	Patch cords made to order	13
				Uninsulated plug (B4)	
				Insulated plug with solder connection (B1)	
			Banana plugs	Insulated plug with crimp or solder connection (B2)	14
				Stackable plug with quick grip cable clamp (BDR-4)	
				Uninsulated panel sockets (DP)	
			Panel sockets	Insulated panel sockets (DP)	15
		Standard		BM/BM extension patch cords	
		series		BDM/BDM exterision patch cords	16
4mm	•			PTM/BM Test probe patch cords	10
				PTM/BW Test probe pateri cords	
		Patch cords	Patch cords made to order	17	
				Test clip - with flexible steel rod	
				Safety test probe	
				Safety female - female adapter	
				Uninsulated plug with crimp or solder connection (BL)	
				Uninsulated panel plug with solder connection (BLP-4)	
	1			Uninsulated panel plug/2mm dia. socket (BLP D-2)	
				Insulated plugs with solder connection (BL-I)	
				Insulated plags with solder connection (BE-I)	
	131	Standard	Banana plugs	Stackable plug with quick grip cable clamp (BDR-2)	23
2mm		series		Uninsulated panel sockets (DLP)	
	SPACE.	Panel sockets	Insulated panel sockets (DL-PI)	24	
				BLM extension patch cords	
	A 18			BLDM stackable patch cords	
		Patch cords	Patch cords made to order	25	



Finder Guide

SERIES	IMAGE CATEGORY		E CATEGORY DESCRIPTION		PAGE	
			Multi-contact	Solder cup - 12 mm contact pitch		
	Marie Control		20-way fixed	Solder cup - 6 mm contact pitch		
			connectors	Pin - 12 mm contact pitch Pin - 6 mm contact pitch		
				Pili - 6 Illili contact pitcii		
	alle.			12 mm contact pitch		
	Standard series		Short cut circuit	6 mm contact pitch	26	
2mm				Male contact blocks (FL M)		
	130 Kg	Contact Blocks and	Contact blocks	Female contact blocks (FL F)	27	
		Ribbon	5	Male - male ribbon patch cords (ML MM)		
		patch cords	Patch leads	Female - female ribbon patch cords (ML FF)	28	
	A			PCB Test socket		
		Ac	cessories	Test probe	30	
	-		Banana adapters	2 mm male - 4 mm female		
				BNC/2 mm Banana adapter		
	Banana adapters		BNC/Banana adapters	BNC/4 mm Banana adapter	32	
Adapters				BLM/BM		
			na adapters itch cords	BLDM/BDM		
		ρα	iten corus	BLM/DM		
	Coaxial patch cords		BNC/BCX	33		

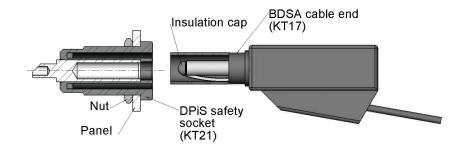


INTRODUCTION

4 MM SAFETY SERIES

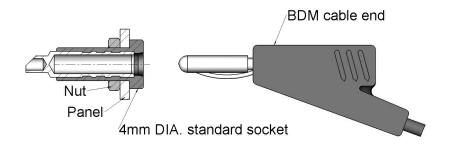
Due to safety being an important criteria when using test and measurement instrumentation, especially for high voltage use, Radiall developed the 4 mm Safety Series, which offers an improved protection system that eliminates all risk of contact with live elements when handling components.

Safety connectors are reinforced by a protective sleeve and an insulation cap on the top of the contact. The protective sleeve may be retractable or non-retractable. All plugs with non-retractable sleeves are rated at 600V, CAT III or 1000V, CAT II according to the safety standard IEC 61010-031 version 2002.



4 MM STANDARD SERIES

The 4 mm Standard Series meets the requirements of NF C 93 440 standards. The product in this series are not intended for hand-held use at voltage above 30Vac/60Vdc.



Example of a regular connection: the contact is exposed.

ACCESSORIES: TEST CLIPS

- With sliding hook: The contact hook guarantees a good grip on wires, components and PCB pin up to 1.5 mm² thick.
- Alligator Test Clips: Features a large opening and gripping efficiency for use on motors, fuse holders, terminals, etc.
- Flexible Steel Rod Test Clips: The thin flexible steel rod allows testing of hard-to-reach points in dense circuitry.
- Crocodile Test Clips: Features a large 20 mm opening to allow attachment to larger test points.
- · Safety Test Probe: An extra thin probe allows contact through coatings and some insulations. It can also be used for PCB measurements. Fitted with a rear-mounted 4 mm socket, it can be used with BM patch cords.



CHARACTERISTICS

PLUGS	SOCKETS	PATCH CORDS
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ELECTRICAL CHARACTERISTICS

Current rating, max. • 4 mm safety • 4 mm standard	30A (@ 20C)	15 A (@ 20C) patch cords 1 mm² 15 A (@ 20C) patch cords 1 mm² 30 A (@ 20C) 2 an 2.5 mm²		
Dielectric withstanding voltage	2500 Vrms @ 50Hz			
Operating voltage	750 Vrms @ 50Hz			
Insulation resistance, min.	5000 ΜΩ			
Contact resistance, max.	0.5mΩ	-		

MECHANICAL CHARACTERISTICS

Mechanical, durability, min.	10,000 matings		
Average insertion force	25N		
Tightening torque • 4 mm safety • 4 mm standard	-	Max 140 N.cm 120 N.cm	-

ENVIRONMENTAL CHARACTERISTICS

Temperature range • 4 mm safety • 4 mm standard	-40 °C / +85 °C	-40 °C / +100 °C	BDSR patch cords -40 °C / +85 °C BDSA patch cords -25M °C / +70 °C
Damp heat	(uninsulated) -65 °C / +155 °C (insulated models) -60 °C / +100 °C		-40 °C / +70 °C

MATERIALS

Insulation	Thermoplastic
Contacts	Nickel or tin plated Copper alloy/brass

CHARACTERISTICS ACCESSORIES

WITH SLIDING HOOK WITH ALLIGATOR CLIP V	WITH FLEXIBLE STEEL RODS	WITH CROCODILE DIE	SAFETY TEST PROBE
---	-----------------------------	--------------------	-------------------

ELECTRICAL CHARACTERISTICS

Operating voltage, max.	1000 Vrms				1500 Vrms
Current rating max	4A (@20C) 2.5A 32A 32A				-
Clip opening (max)	1.5mm (max hooking capacity)"			20 mm	

MATERIALS

Body	Thermoplastic	
Contact	Stainless steel	Steel

PACKAGING

	2 mm safety series	4 mm standard series	
Plugs	10 pieces 100 pieces		
Panel sockets	100 pieces		
Patch cords	10 pieces		
Accessories	10 pieces		

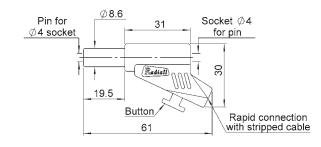


SAFETY SERIES

PLUGS

STACKABLE PLUG, PARTIAL SAFETY (BDR-SR)

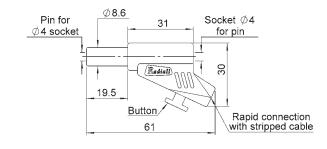




PART NUMBER	COLOR	STANDARD	
R941 460 600	Black		
R941 461 600	Red		
R941 462 600	Green	NFC 93440-KT12R	
R941 463 600	Blue		
R941 464 600	Yellow		

STACKABLE PLUG, PARTIAL SAFETY-NON-THERMOFUSIBLE SLEEVE (BDR-PR)





PART NUMBER	COLOR	STANDARD
R941 480 600	Black	NFC 93440-KT12R
R941 481 600	Red	DCN 5935 BA

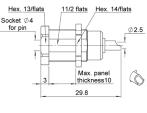


SOCKETS

INSULATED SAFETY PANEL-MOUNT SOCKETS (DPIS)

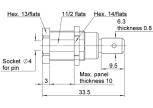
Insulated safety panel sockets are mateable with standard 4 mm BM/BDM patch cords and BDSR/BDSA safety patch cords.





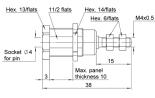
PART NUMBER	COLOR	TERMINATION	STANDARD	PANEL DRILLING
R941 920 600	Black			
R941 921 600	Red			
R941 922 600	Green	Solder cup	NFC 93440-KT21F	P05
R941 923 600	Blue			
R941 924 600	Yellow			





PART NUMBER	COLOR	TERMINATION	STANDARD	PANEL DRILLING
R941 920 602	Black	Flat for FASTON	NFC	P05
R941 921 602	Red	lug type	93440-KT21L	PU5

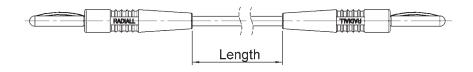




PART NUMBER	COLOR	TERMINATION	STANDARD	PANEL DRILLING
R941 920 603	Black			
R941 921 603	Red	For fork lug	NFC 93440-KT21V	P05
R941 924 603	Yellow			

PATCH CORDS

Except where specified, all patch cords lengths are defined by the length of the cable without connectors or strain relief.



Radiall Patch Cord Series includes:

- BDSR/BDSR: Retractable sleeve for partial security
- BDSA/BDSA: Non-retractable sleeve where secure connections are critical; The cable assembly is rated at 1000 V, CAT II according to the safety standard IEC61010-31
- · Patch cords made-to-order



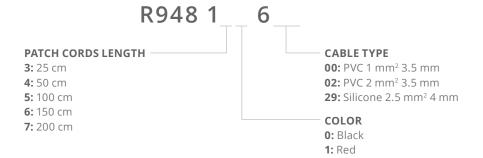
PATCH CORDS

PLUG/PLUG STACKABLE PATCH CORDS - RETRACTABLE SLEEVE (BDSR/BDSR)

Cable type:

- PVC, 1 mm² conductor, 3.5mm insulation
- PVC, 2 mm² conductor, 3.5 mm insulation
- Silicone, 2.5 mm² conductor, 4 mm insulation



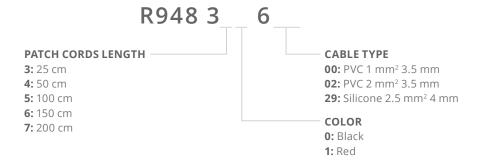


PLUG/PLUG STACKABLE PATCH CORDS - NON-RETRACTABLE SLEEVE (BDSA/BDSA)

Cable type:

- PVC, 1 mm² conductor, 3. 5 mm insulation
- PVC, 2 mm² conductor, 3.5 mm insulation
- Silicone, 2.5 mm² conductor, 4 mm insulation



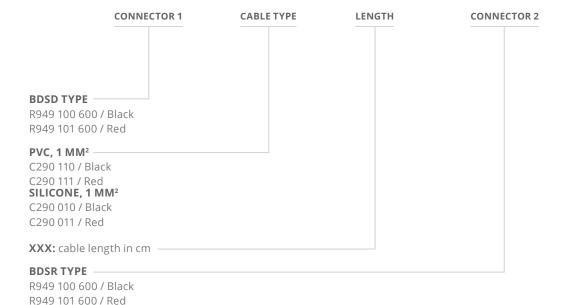




MADE-TO-ORDER PATCH CORDS

Customized patch cords using BDSR plugs can be made-to-order to meet your specifications. Choices include connector style, cable type, color, and cable length.

HOW TO ORDER



EXAMPLE TO ORDER

1 black BDSR plug / red silicone 1 mm 2 cable length 125 cm / 1 Red BDSR plug.

Part number: R949 100 600 / C290 011-125 cm / R949 100 600

Notes

- 1. For other options, please contact your local representative
- ${\it 2. Refer to the table below to select your insert class:}$



STANDARD SERIES PLUGS

UNINSULATED BANANA PLUGS

FIGURE	PART NUMBER	DESCRIPTION	PANEL DRILLING
Pin for :0.4 socket	R941 019 000	Solder or crimp 15mm solder post Strip length: 5 mm Crimp tool: Buchanan R612 548 000 Positioner Radiall R282 561 000 Crimp setting: 1.20 (18 AWG) 1.08 (22 AWG) Maxi 15A	-
Pin for Ø 4 socket Hex. 5/flots 19.50 10.30 3.50 Nominal 32.5	R941 029 000	Solder or crimp 2mm solder post Strip length: 5 mm Crimp tool: Buchanan R612 548 000 Positioner Radiall R282 561 000 Crimp setting: 1.50 (14 AWG) 1.25 (18 AWG)	-
Pin for Q4 socket Q4.7 Hex. Sillins M4x0.7 19.5 4.5 19.5 35.5	R941 049 000	Threaded panel connection 8 mm rear length	P03
Pin for 04 socket 04.7 Her 6ffats M4x0.7 19.5 4.5 27.5 45.5	R941 069 000	Threaded panel connection 18 mm rear length	P03
19.8 Ham 23.2 45.7	R941 149 000	Panel banana plug 4 mm with rear socket for mating qith 4 mm plug	P01



INSULATED BANANA PLUGS

FIGURE	PART NUMBER	COLOR	DESCRIPTION
	R941 330 000	Black	
Pin for Ø4 socket Ø10	R941 331 000	Red	Tin-plated solder cup or
1 02	R941 332 000	Green	Rear socket for 2 mm banana plug
19.5 20.5	R941 333 000	Blue	
47.6	R941 334 000	Yellow	(14 AWG)
	R941 336 000	White	
	R941 340 000	Black	
Pin for ∅4 socket 10	R941 341 000	Red	Tin-plated solder cup or
02	R941 342 000	Green	Screw tightening or Rear socket for 2 mm banana plug
19.5 06.5	R941 343 000	Blue	
4/.6	R941 344 000	Yellow	(14 AWG)
	R941 346 000	White	
Pin for ∅4 socket vi	R941 460 000	Black	Stackable banana with quick-grip clamp for stripped cable
19.5 <u>8.4</u> 59.5	R941 461 000	Red	2 and 4 mm socket for banana plugs

SOCKETS

UNINSULATED PANEL SOCKETS (DP)

FIGURE		PART NUMBER	DESCRIPTION	PANEL DRILLING
Societ 04 for pro Depth+19 10 10 10 10 10 10 10 10 10	R941 619 000	Solder cup Cup tripping dimension 4 mm		
	R941 629 000		P01	
4	1.8 Max. panel thickness 14.8 27.5	(nickel plated version)	(14 AWG)	

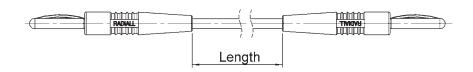
INSULATED PANEL SOCKETS (DPI)





PATCH CORDS

Except where specified, all patch cords lengths are defined by the length of the cable without connectors or strain relief.



Radiall Patch Cord Series includes:

- BM/BM: Molded extension patch cords
- BDM/BDM: Molded stackable patch cords
- PTM/BM: Molded test probe patch cords
- · Patch cords made-to-order

EXTENSION PATCH CORDS (BM/BM)

Cable type: PVC, 1mm² conductor, 3.5mm insulation



STACKABLE PATCH CORDS (BDM/BDM)

Cable type:

- PVC, 1 mm² conductor, 3.5 mm insulation
- PVC, 2 mm² conductor, insulation
- Silicone, 2.5 mm² conductor, 4 mm insulation





TEST PROBE PATCH CORDS (PTM/BM)

Cable types: PVC, 1 mm², 3.5 mm insulation

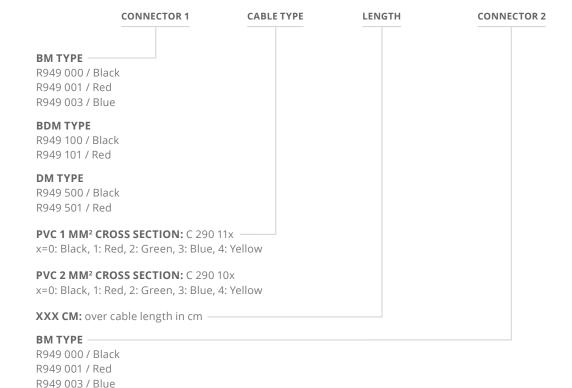


PART NUMBER	COLOR	CORD LENGTH
R948 250 000	Black	100 cm
R948 251 000	Red	100 cm

MADE-TO-ORDER PATCH CORDS

The series comprises the following extremities: BM, BDM, DM. Choices include connector style, cable type, color, and cable length.

HOW TO ORDER



BDM TYPE

R949 100 / Black R949 101 / Red

DM TYPE

R949 500 / Black R949 501 / Red

EXAMPLE TO ORDER

1 black BDSR plug / green PVC 1mm² with 80 cm / 1 Red BDM plug. Part number: R949 100 / C290 012-80 cm / R949101

FOR FREE END: please write the word "free"

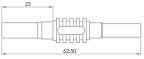


ACCESSORIES

FEMALE / FEMALE ADAPTERS

These adapters allow for the connection between two standard patch cords with BM extremities.





PART NUMBER	COLOR
R941 960 600	Black
R941 961 600	Red

TEST CLIPS

FIGURE	DESCRIPTION	PART NUMBER	COLOR	SERIES
125,00 (6) (5)	With sliding hook	R999 700 600	Black	4 mm safety series
8 %		R999 701 600	Red	
200	With flexible steel rod	R999 720 600	Black	
1037 05/10	tost clip	R999 721 600	Red	
	Safety test probe	R941 850 600	Black	
0		R941 851 600	Red	
		R941 850 000	Black	4 mm standard
		R941 851 000	Red	series



INTRODUCTION

Radiall's high-quality and reliable 2mm Series are designed for high-density test and measurement applications. This series includes a wide range of plugs, sockets, patch cords, test accessories, multiway connectors, short-circuit link, and other configurations.

- Plugs
- Patch cords
- 20-way fixed connector
- Contact block and ribbon patch cords

- Sockets
- PCB test points
- · Short circuit links
- Accessories

















20-WAY FIXED CONNECTORS



These connectors contain twenty 2 mm sockets molded into a low-profile housing. The tight pitch between sockets makes them particularly suitable for use in circuit beakers and test batteries.

ADVANTAGES

- Quick assembly time with single mounting operation for multi-connections
- Space savings
- Simplified panel piercing
- Orientation of solder shafts



Has the potential to be able to remove the cable harness without disconnecting each socket.

SHORT-CIRCUIT U LINKS



The short-circuit U link is a complementary component to the 20-way fixed connector and can be used to make shunts. It is fitted with a rear-mounted 2 mm socket.

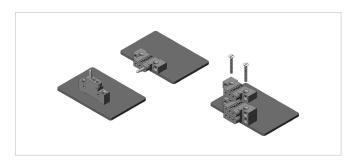


INTRODUCTION

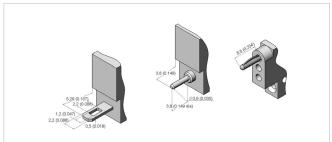
2 MM CONTACT BLOCKS & RIBBON PATCH CORDS SERIES

This series includes:

Contact blocks and ribbon patch cords.



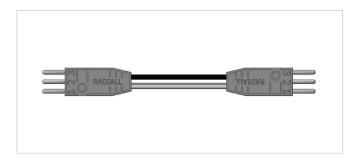
Dimensions of contact outlets and projections.



RIBBON PATCH CORDS

The contact blocks can mate with ribbon patch cords, which have:

- Excellent contact
- Sturdy construction
- Contact polarization options
- Low bulk
- · High retention



They can be used for several field applications such as: electronics, laboratories, education and telecommunications.

PCB TEST SOCKET ACCESSORIES

Test sockets simplify testing and maintenance of equipment where direct contact with components should be avoided.

- Test Socket entrax 10.16 mm: This model, with the particular disposition of the pins, allows the immobilization on the circuit board. This version is particularly adapted for a wave soldering operation.
- Test Socket entrax 5.08 mm: This test socket is made up of a joined spiral spring with a nickel over plated protection.

TEST PROBE ACCESSORIES

An extra thin probe allows contact through coatings and some insulations. It can also be used for PCB measurements. They are fitted with a rear-mounted 2 mm socket and can be used with BLM and BLDM patch cords.



CHARACTERISTICS

PLUGS	SOCKETS	PATCH CORDS
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ELECTRICAL CHARACTERISTICS

Current rating, max.	10A (@ 20 °C)	PVC cable 0.3mm ² section 5A (@ 20 °C)
Dielectric withstanding voltage	1500 Vrms	@ 50Hz
Operating voltage	250 Vrms @ 50Hz	
Insulation resistance, min.	5000 mΩ	
Contact resistance, max.	1mΩ	-

MECHANICAL CHARACTERISTICS

Mechanical, durability, min.	10,000 matings
Average insertion force	14N

ENVIRONMENTAL CHARACTERISTICS

Temperature range	Uninsulated -65 °C / +155 °C Insulated models -60 °C / +100 °C	-40 °C / +70 °C
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MATERIALS

Insulation	Thermoplastic
Contacts	Nickel or tin plated Copper alloy/brass

ELECTRICAL CHARACTERISTICS

	20-WAY FIXED CONNECTOR	SHORT-CIRCUIT U LINKS
Current rating, max.	7A (@	20 °C)
Dielectric withstanding voltage	2000 Vr	ms 50Hz
Operating voltage	500 Vrms 50Hz	
Insulation resistance	5000) mΩ

MECHANICAL CHARACTERISTICS

Mechanical, durability, min.	10,000 matings

ENVIRONMENTAL CHARACTERISTICS

Temperature range	-40 °C / +125 °C	-40 °C / +70 °C

MATERIAL

Insulation	Self-extinguishable PBT UL 94V0	PVC
Contacts	Brass with gold plating	Brass/Bronze



CONTACT BLOCKS & RIBBON PATCH CORDS

ELECTRICAL CHARACTERISTICS

Current rating, max. • Contact blocks • Ribbon patch cords	7A (@ 20 °C) 5A (@ 20 °C)
Dielectric withstanding voltage	1500 Vrms @ 50Hz
Operating voltage	250 Vrms @ 50Hz
Insulation resistance (insulated models)	5000 MΩ
Contact resistance	1mΩ

MECHANICAL CHARACTERISTICS

Endurance	>10.000 matings
Elidaraticc	- 10,000 matings

ENVIRONMENTAL CHARACTERISTICS

Temperature range • Contact blocks • Ribbon patch cords	-65 °C / +120 °C -40 °C / +85 °C
---	-------------------------------------

MATERIALS

Insulation	Thermoplastic	
Body	Nickel or tin plated (solder connection) Copper alloy / brass	

ACCESSORIES

ELECTRICAL CHARACTERISTICS

	PCB TEST SOCKETS	TEST PROBE
Dialoghuis with shand voltage	FCB TEST SOCKETS	1-0.1110-2
Dielectric withstand voltage • Extra 10.16 model • Other models	1500 Vrms 50Hz 1000 V	1000 Vrms
Operating voltage	250 Vrms 50Hz	250 Vrms 50Hz

MECHANICAL CHARACTERISTICS

Insulation resistance	10,000ΜΩ	5000ΜΩ	
	/		

ENVIRONMENTAL CHARACTERISTICS

Operating temperature	-40 °C / +100 °C	-25 °C / +70 °C

PACKAGING

Plugs	100 pieces (except BDR-2=10 pieces)			
PCB test sockets	100 pieces			
Patch cords	10 pieces			
20-way fixed connector	1 piece			
Short-circuit u links	100 pieces			
PCB test sockets	100 pieces			
Test probe	10 pieces			
Contact blocks	50 pieces			
Ribbon patch cords	10 pieces			



PLUGS

UNINSULATED BANANA PLUGS

FIGURE	PART NUMBER	DESCRIPTION	PANEL DRILLING
Pin for @2 socket	R921 019 000	Solder or crimp Strip length: 4 mm Crimp tool: Buchanan R612 548 000 Positioner Radiall R282 982 000 Cable: AWG 20, 22, 24	-
Pin for ©2 socket	R921 029 000	Threaded Rear length 4 mm	-
9.5 5.2 Max panel thickness 2.8. Per for 0.2 societi 1.2.2.8. Hox. Griss 10.8. 10.8.	R921 119 000	Nut-tin-plated solder Strip length: 4 mm Cable: AWG 20	P03
Pin for ©2 socket Pin for ©3 socket ©2 for pin	R921 149 000	Male-female adapter with nut	P03

INSULATED BANANA PLUGS

FIGURE	PART NUMBER	COLOR	DESCRIPTION	PANEL DRILLING
Pin for Ø2 socket Ø6.4	R921 330 000	Black		
	R921 331 000	Red		
	R921 332 000	Green	Tin-plated solder	_
9.5	R921 333 000	Blue	Cable: AWG 20	-
10 27	R921 334 000	Yellow		
	R921 336 000	White		
Pin for ©2 socket prip 011 Duffor Seekel ©2 for pin. Seekel ©2 for pin. 102 quick prip for cibile 9.5 25.6	R921 461 000	Red	Stackable plug with quick grip clamp 2 mm rear socket	-



SOCKETS

UNINSULATED BANANA SOCKETS

	FIGURE	PART NUMBER	DESCRIPTION	PANEL DRILLING
	Socket ©2 Mex. 6/flats for pin O1.4 Mar. panel 2. Brickness 6.5 17	R921 609 000	Tin-plated solder Panel mount: M3.5 x 0.35 thread Strip length: 4 mm Cable: AWG 20	P04
9/1	Societé 02 to pin Hes, Sifiats Hes, Sifiats O1.4 Amax. panel 2. grackness 6.5 17	R921 629 000	Tin-plated solder Panel mount: M4 x 0.5 thread Strip length: 4 mm Cable: AWG 20	P03

INSULATED BANANA SOCKETS

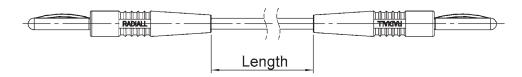
FIGURE	PART NUMBER	COLOR	DESCRIPTION	PANEL DRILLING
	R921 920 000	Black		
97.5 Societ 92 for pin	R921 921 000	Red	NA object or all account as all at	
for pin	R921 922 000	Green	Machined panel-mount socket Tin-plated solder termination	P02
Max panel Maxiness 3.5	R921 923 000	Blue	Strip length: 4 mm Cable: AWG 20	P02
3.5 moones 3.5	R921 924 000	Yellow	Cable: AWG 20	
	R921 926 000	White		
	R921 930 000	Black	Stamped panel-mount socket Tin-plated solder termination Strip length: 4 mm AWG 20 wire	P02
Hex. 7/flats Hex. 5/flats 22	R921 931 000	Red		
Socket 0/2 22 22 hickness 0.5	R921 932 000	Green		
Was point Mars point M	R921 933 000	Blue		
	R921 934 000	Yellow		
	R921 936 000	White		

PATCH CORDS

Except where specified, all patch cords lengths are defined by the length of the cable without connectors or strain relief.

Radiall Patch Cord Series includes:

- **BLM:** Molded miniature extension patch cords
- BLDM: Molded miniature stackable patch cords
- · Patch cords made-to-order



Each plug is soldered onto the cable in order to assure an excellent electrical connection with very stable transfer resistance.



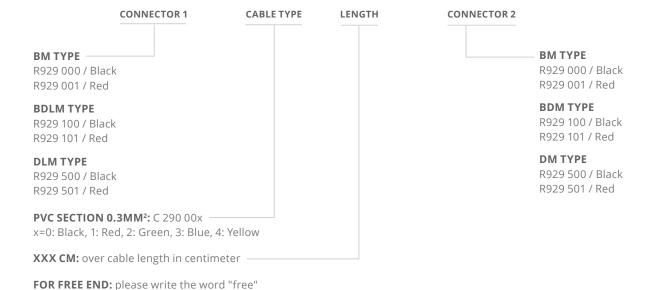
PLUGS



MADE-TO-ORDER PATCH CORDS

Customized patch cords using BLM, BLDM, or DLM plugs can be made-to-order to your specifications. Choices include connector style, cable type, color, and cable length. Packaging: 10 identical patch cords.

HOW TO ORDER



Radiall ?

1 black BLM extremity / red PVC cable length 40 cm / 1 red BLM plug.

Part number: R929 000 / C290 001-40 cm / R929501

EXAMPLE TO ORDER:

20-WAY FIXED CONNECTORS

12 MM CONTACT PITCH

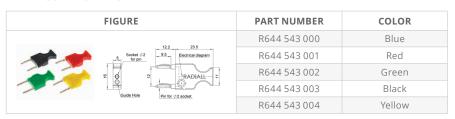
FIGURE	PART NUMBER	COLOR	TERMINATION
5.8 4X12 States for large 3 3.5 (94.5)	R929 991 000	Blue	
	R929 991 001	Red	
8 2 00000000 5 028	R929 991 002	Green	Solder cup
2.8 9X6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	R929 991 003	Black	
	R929 991 004	Yellow	
5.8 4X12 5 holes for faing 3 3.5 6 45 5 5 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	R929 992 000	Blue	Pin

6 MM CONTACT PITCH

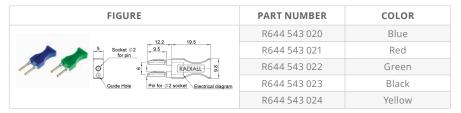
FIGURE	PART NUMBER	COLOR	TERMINATION
50 91 5 holes for famp for scene androle 5.7 4x12 9.14 9.15 9.	R929 993 000	Blue	
	R929 993 001	Red	
	R929 993 002	Green	Solder cup
	R929 993 003	Black	
59 /max 179 1	R929 993 004	Yellow	
5x 0 1.5 holes for fixing 3 3.5 5.5 4.12 5.00 5.00 9.3 9.45 5.0 4.12 5.00 5.00 9.3 9.45 5.00 9.2 5.00	R929 994 003	Black	Pin

SHORT-CIRCUIT U LINK

12 MM CONTACT PITCH



6 MM CONTACT PITCH





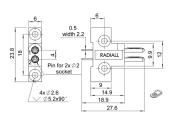
CONTACT BLOCKS

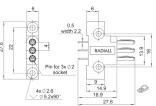
The contact blocks are available for different types of connections:

- Wire soldering
- Straight pins for PCB
- Elbow pins for PCB (contact your Radiall sales representative)
- Wrapping pins (contact your Radiall sales representative)

MALE CONTACT BLOCKS



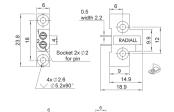




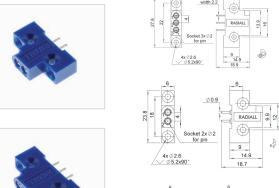
PART NUMBER	NOTE
R644 020 000	
R644 030 000	Tin-plated solder cup

FEMALE CONTACT BLOCKS

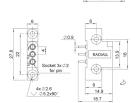












PART NUMBER	NOTE	
R644 120 000	Tin-plated solder cup	
R644 130 000	Tin-plated solder cup	
R644 121 000	PCB Pins	
R644 131 000	FCD PIIIS	



RIBBON PATCH CORDS

The contact blocks are available for different types of connections:

MALE-MALE RIBBON PATCH CORDS 100 CM LENGTHS

FIGURE	PART NUMBER	DESTINATION	NUMBER OF CONTACT
	R644 823 000	ML 2 mm	2
	R644 833 000	ML 3 mm	3

ACCESSORIES

TEST SOCKETS & TEST PROBE

FIGURE	PART NUMBER	COLOR	DESCRIPTION
•	R921 910 000	Black	
12 Socket Ø 2 for pin	R921 911 000	Red	
	R921 912 000	Green	Test socket entroy 10.16 mm
	R921 913 000	Blue	Test socket entrax 10.16 mm
10.16	R921 914 000	Yellow	
	R921 916 000	White	
	R921 820 070	Black	
6.7	R921 820 071	Red	7
\$ 38	R921 820 072	Green	
4	R921 820 073	Blue	Test socket entrax 5.08 mm
5.08 4.3	R921 820 074	Yellow	
	R921 820 076	White	
7 - 24 - 89.5	R921 850 000	Black	Test probe
	R921 851 000	Red	rest prope



Banana Adapters

INTRODUCTION

The connection may be attached to a coaxial line. You will find at the end of the catalog the adapters which allow connecting between 2 mm and 4 mm or between BNC coaxial connectors with banana plugs for both 2 mm and 4 mm connectors.







CHARACTERISTICS

ELECTRICAL CHARACTERISTICS

Current rating, max.	10A (@ 20 °C)	-	5A (@ 20 °C)
Dielectric withstanding voltage	1500 Vrms @ 50 Hz	Two: 2500 Vrms @50 Hz One-way: 750 Vrms @50 Hz	1500 Vrms @ 50 Hz
Operating voltage	250 Vrms @ 50 Hz	-	250 Vrms @ 50 Hz
Insulation resistance (insulated models)	5000 ΜΩ	Two: 5000 MΩ One-way: 5000 MΩ	5000 ΜΩ

ENVIRONMENTAL CHARACTERISTICS

Temperature range	-40 °C / +70 °C	-40 °C / +100 °C	-40 °C / +70 °C
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MATERIALS

Insulator (banana plug / socket side)	Thermoplastic	
Electrical contacts	Nickel or tin plated Copper alloy/brass	

PACKAGING

DESCRIPTION	PACKAGING
2 mm / 4 mm	100 pieces
BNC / 2 mm	1 piece
BNC / 2 mm	1 piece
Patch cords	10 pieces



ADAPTERS

2 MM PIN TO 4 MM SOCKET ADAPTERS

FIGURE	PART NUMBER	COLOR	NOTE
Pin for Ø2 socket Ø10	R921 390 000	Black	2 mm male - 4 mm
9.5	R921 391 000	Red	female adapter

2 MM TO BNC ADAPTERS

FIGURE	PART NUMBER	COLOR	NOTE
24-50-08et 5/2 for pm	R191 450 000	Black	Packaging individually

4 MM TO BNC ADAPTERS

These adaptors are designed to uncouple electric signals from input and output terminals of a measuring device fitted with male or female BNC fixed connectors.

FIGURE	PART NUMBER	NOTE
2002.8. School of 4	R191 453 000	BNC: male Banana: two 4 mm sockets
Societ 6.4 for pin	R191 454 000	BNC: male Banana: one 4 mm socket
Degree for distorbet	R191 455 000	BNC: female Banana: two 4 mm plugs



Banana Adapters

ADAPTERS PATCH CORDS BANANA ADAPTER PATCH CORDS

Patch cords are designed to provide continuity between two pieces of equipment or create patch cords with 2 mm interfaces on one end and 4 mm interface on the other.

Cable Type: 0.3 mm², PVC

FIGURE	PART NUMBER	COLOR	CONFIGURATION
	R999 251 000	Red	BLM / BM 100 cm length
	R999 350 000	Black	BLDM / BDM 100 cm length
	R999 351 000	Red	
	R999 352 000	Green	
	R999 353 000	Blue	
	R999 354 000	Yellow	
	R999 520 000	Black	BLM / DM 20 cm length
	R999 521 000	Red	

COAXIAL PATCH CORDS/4 MM BANANA PLUG

BCX COAXIAL PATCH CORDS

The BCX coaxial cords are normally connected to the terminals of measuring devices in order to uncouple the central core from the braid of a coaxial cable. The BCX plug is non-removable. The cable core is soldered to the center contact and the braid is soldered to the socket.

FIGURE	PART NUMBER	COLOR	CONFIGURATION
	R948 450 000	Black	Length: 100 cm (with connectors)



PANEL DRILLING

P01

PANEL CUT OUT



	mm	
	Maxi	mini
A	6.2	6.1

P02

PANEL CUT OUT



	m	m
	Maxi	mini
A	5.2	5.1

P03

PANEL CUT OUT



	mm	
	Maxi	mini
A	4.2	4.1

P04

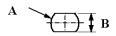
PANEL CUT OUT



	mm	
	Maxi	mini
A	3.7	3.6

P05

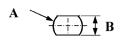
PANEL CUT OUT



	mm	
	Maxi	mini
A	12.2	12.1
В	11.2	11.1

P06

PANEL CUT OUT



	mm	
	Maxi	mini
A	8.2	8.1
В	7.2	7.1

Note



Note

