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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







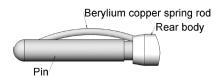


FEATURES & BENEFITS

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	1 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 / 2 mm 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	GE CATEGORY		DESCRIPTION	PAGE
	210		Banana Plugs	Stackable Plug (BDR-SR)	
			Dallalla Flugs	Stackable Plug, Non-Thermofusible Sleeve (BDR-PR)	25-8
			Panel Sockets	Insulated Safety Panel Socket (DPIS)	
	O I	Safety		Plug/Plug Stackable, Retractable Sleeve (BDSR)	25-10
	Series	Patch Cords	Patch Cords Made to Order	25-11	
				Uninsulated Plug (B4)	
	A		D Dl	Insulated Plug with Solder Connection (B1)	25.42
			Banana Plugs	Insulated plug with Crimp or Solder Connection (B2)	25-12
	1 0			Stackable Plug with Quick Grip Cable Clamp (BDR-4)	
				Uninsulated Panel Sockets (DP)	
			Panel Sockets	Insulated Panel Sockets (DP)	25-13
		Standard		BM/BM Extension Patch Cords	
		Series		BDM/BDM Stackable Patch Cords	25-14
4 mm				PTM/BM Test Probe Patch Cords	
			Patch Cords	FIMI/DIVI TEST FIODE FATCH COIDS	
			Patericords	Patch Cords Made to Order	25-15
				Test Clip - with Flexible Steel Rod	
				Safety Test Probe	
Accessor		cessories	Safety Female - Female Adapter	25-16	
				Uninsulated Plug with Crimp or Solder Connection (BL)	
	-			Uninsulated Panel Plug with Solder Connection (BLP-4)	
				Uninsulated Panel Plug / 2 mm dia. Socket (BLP D-2)	
				Insulated Plugs with Solder Connection (BL-I)	
			Banana Plugs	Insulated Panel Plug (BL-PI)	25-21
	131	Standard		Stackable Plug with Quick Grip Cable Clamp (BDR-2)	
2 mm	. 4	Series	Panel Sockets	Uninsulated Panel Sockets (DLP)	25-22
			Tallel Sockets	Insulated Panel Sockets (DL-PI)	23-22
				BLM Extension Patch Cords	
	AND AND			BLDM Stackable Patch Cords	
		Patch Cords	Patch Cords Made to Order	25-23	



SERIES	IMAGE	CATEGORY		DESCRIPTION	PAGE
				Solder Cup - 12 mm Contact Pitch	
	Miles.		Multi-Contact 20-Way Fixed	Solder Cup - 6 mm Contact Pitch	
	A STATE OF THE STA		Connectors	Pin - 12 mm Contact Pitch	
				Pin - 6 mm Contact Pitch	
	and a			12 mm Contact Pitch	
	Standard Series		Short Cut Circuit	6 mm Contact Pitch	25-24
2 mm		Control		Male Contact Blocks (FL M)	
	13	Contact Blocks and	Contact Blocks	Female Contact Blocks (FL F)	25-25
		Ribbon		Male - Male Ribbon Patch Cords (ML MM)	
		Patch Cords	Patch Leads	Female - Female Ribbon Patch Cords (ML FF)	
	Ac			PCB Test Socket	
		cessories	Test Probe	25-26	
			Banana Adapters	2 mm Male - 4 mm Female	
				BNC / 2 mm Banana Adapter	
		Banana Adapters	BNC/Banana Adapters	BNC / 4 mm Banana Adapter	25-28
Adapters				BLM/BM	
	Banana Adapters Patch Cords		na Adapters	BLDM/BDM	
		Fa	terr corus	BLM/DM	
		Coaxial Patch Cords		BNC/BCX	25-29

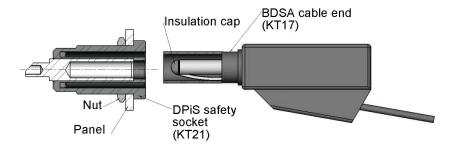


INTRODUCTION

4 MM SAFETY SERIES

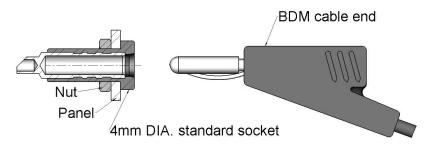
Due to safety being an important criteria when using test and measurement instrumentation, especially for high voltage use, Radiall developed the 4 mm Safety Series, which offers an improved protection system that eliminates all risk of contact with live elements when handling components.

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 600 V, CAT III or 1,000 V, 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 30 Vac / 60 Vdc.



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
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	2,500 Vrms @ 50 Hz		
Operating Voltage	750 Vrms @ 50 Hz		
Insulation Resistance, Min.	5000 ΜΩ		
Contact Resistance, Max.	0.5mΩ	-	

MECHANICAL CHARACTERISTICS

Mechanical, Durability, Min.	10,000 matings		
Average Insertion Force	25 N		
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	STEEL RODS	WITH CROCODILE DIE	SAFETY TEST PROBE
ELECTRICAL CHARACTERISTICS					
Operating Voltage, Max.		1,000 Vrms			1,500 Vrms
Current Rating Max	4 A (@20C)	2.5 A	32 A	32 A	-
Clip Opening (Max)	1.5 mm (Max Hooking Capacity)			20 mm	

WITH SLIDING HOOK WITH ALLIGATOR CLIP

WITH FLEXIBLE

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		



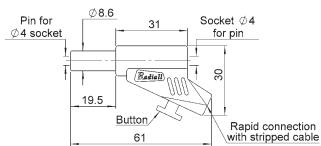
WITH CROCODILE DIE SAFETY TEST PROBE

SAFETY SERIES

PLUGS

Stackable Plug, Partial Safety (BDR-SR)

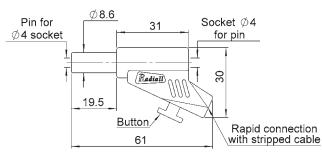




PART NUMBER	COLOR	STANDARD
R941 460 600	Black	
R941 461 600	Red	
R941 462 600	Green	NFC 93440-KT12R
R941 463 600	Blue	
R941 464 600	Yellow	

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

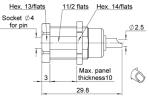


SOCKETS

Insulated Safety Panel-Mount Sockets (DPIS)

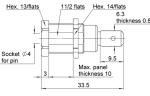
Insulated safety panel sockets are mateable with standard 4 mm BM/BDM patch cords and BDSR/BDSA safety patch cords.





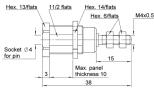
PART NUMBER	COLOR	TERMINATION	STANDARD	PANEL DRILLING
R941 920 600	Black			
R941 921 600	Red		NFC 93440-KT21F	P05
R941 922 600	Green	Solder Cup		
R941 923 600	Blue			
R941 924 600	Yellow			





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

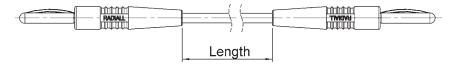




PART NUMBER	COLOR	TERMINATION	STANDARD	PANEL DRILLING
R941 920 603	Black			
R941 921 603	Red	For Fork Lug	NFC 93440-KT21V	P05
R941 924 603	Yellow			

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
- · Patch Cords Made-To-Order



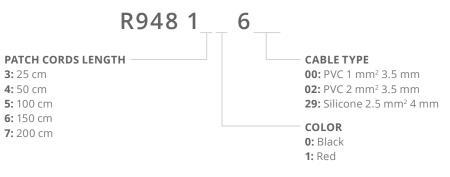
PATCH CORDS

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



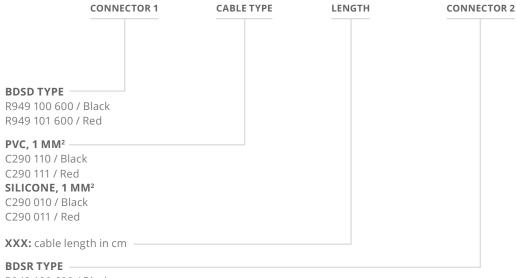




Made-To-Order Patch Cords

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



R949 100 600 / Black R949 101 600 / Red

EXAMPLE TO ORDER

1 Black BDSR Plug / Red Silicone 1 mm² 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
- 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 Ø 4 socket	R941 019 000	Solder or Crimp 15 mm 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 15 A	-
Fin for Ø 4 socket Hex. S/flats 2 290 40.05 19.50 *0.30 Nominal 32.5	R941 029 000	Solder or Crimp 2 mm 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. Siliats M4x0.7 19.5 4.5 27.5 35.5	R941 049 000	Threaded Panel Connection 8 mm Rear Length	P03
Pin for 0/4 socket 0/4 7 Hex 6/fats M4x0.7 19.5 4.5 27.5 45.5	R941 069 000	Threaded Panel Connection 18 mm Rear Length	P03
(4.5) 2.5 (10.5)	R941 149 000	Panel Banana Plug 4 mm with Rear Socket for Mating with 4 mm Plug	P01



Insulated Banana Plugs

	FIGURE	PART NUMBER	COLOR	DESCRIPTION
Pin for Ø 4 socket Ø	R941 460 000	Black	Stackable Banana with Quick-Grip Clamp for Stripped Cable	
	19.5 8.4 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
	Socket Ø4 for pin Depth=19 Ø2.5	R941 619 000	Solder Cup	
The same of the sa	R941 629 000	Cup Tripping Dimension 4 mm	P01	
A. Marie	1.8 Max. panel thickness 14.8 27.5	(Nickel Plated Version)	(14 AWG)	

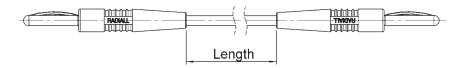
Insulated Panel Sockets (DPI)

FIGURE	PART NUMBER	COLOR	DESCRIPTION	PANEL DRILLING
	R941 920 001	Black		P06
Hex. 9/flats 7/2 flats Hex. 10/flats Socket Ø 4 for pin	R941 921 001	Red	Tin-Plated Solder Cup UL 94V-0 Thermoplastic Insulation	
depth=20 Max. panel 3 pickness 10 25	R941 922 001	Green		
	R941 923 001	Blue		
	R941 924 001	Yellow		
	R941 926 001	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:

- BM/BM: Molded extension patch cords
- BDM/BDM: Molded stackable patch cords
- PTM/BM: Molded test probe patch cords

000

COLOR

0: Black

1: Red

2: Green **3:** Blue

· Patch cords made-to-order

Extension Patch Cords (BM/BM)

Cable Type: PVC, 1 mm² conductor, 3.5 mm 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

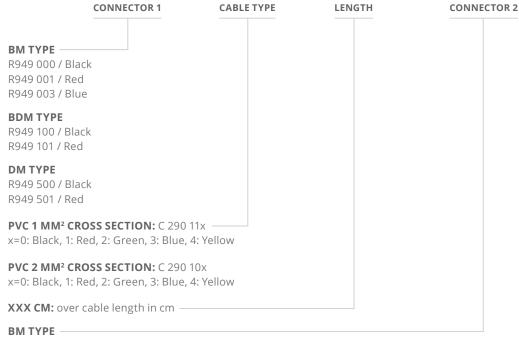


PART NUMBER	COLOR	CORD LENGTH
R948 250 000	Black	100 cm
R948 251 000	Red	100 cm

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



R949 000 / Black R949 001 / Red

R949 003 / Blue

BDM TYPE

R949 100 / Black R949 101 / Red

DM TYPE

R949 500 / Black R949 501 / Red

FOR FREE END: Please write the word "free"

EXAMPLE TO ORDER

1 Black BDSR Plug / Green PVC 1 mm² with 80 cm / 1 Red BDM Plug. Part Number: R949 100 / C290 012-80 cm / R949101

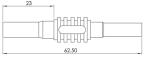


ACCESSORIES

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	With Sliding Hook	R999 700 600	Black	
		R999 701 600	Red	4 mm Safety
200	With Flexible Steel Rod Test Clip	R999 720 600	Black	Series
1937		R999 721 600	Red	
38	Safety Test Probe	R941 850 000	Black	4 mm Standard
38 100		R941 851 000	Red	Series Series



INTRODUCTION

Radiall's high-quality and reliable 2 mm 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



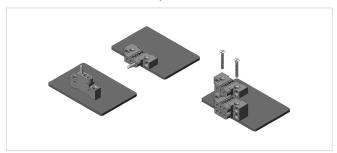
The short-circuit U link is a complementary component to the 20-way fixed connector and can be used to make shunts. It is fitted with a rear-mounted 2 mm socket.



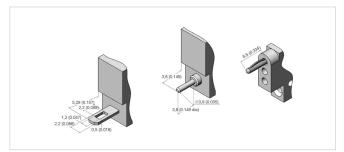
2 MM CONTACT BLOCKS & RIBBON PATCH CORDS SERIES

This series includes:

Contact blocks and ribbon patch cords.



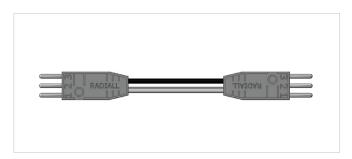
Dimensions of contact outlets and projections.



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				
ELECTRICAL CHARACTERISTICS							
Current Rating, Max.	10 A (@ 20 °C) PVC Cable 0.3 mm² Section 5						
Dielectric Withstanding Voltage	1500 Vrms @ 50 Hz						
Operating Voltage	250 Vrms @ 50 Hz						
Insulation Resistance, Min.	5,000 mΩ						
Contact Resistance, Max.	1 r	-					

MECHANICAL CHARACTERISTICS

Mechanical, Durability, Min.	10,000 Matings	
Average Insertion Force	14 N	

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. 7 A (@ 20 °C)			
Dielectric Withstanding Voltage	2,000 Vrms 50 Hz		
Operating Voltage 500 Vrms 50 Hz			
Insulation Resistance	5,000) 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

F	ΙF	·C'	TR	10	ΔΙ	-	H/	ΔR	Δ	CT	FR	IST	ICS

Current Rating, Max. • Contact Blocks • Ribbon Patch Cords	7 A (@ 20 °C) 5 A (@ 20 °C)
Dielectric Withstanding Voltage	1,500 Vrms @ 50 Hz
Operating Voltage	250 Vrms @ 50 Hz
Insulation Resistance (Insulated Models)	5,000 ΜΩ
Contact Resistance	1 mΩ

MECHANICAL CHARACTERISTICS

Endurance	> 10 000 Matings
Elladidicc	- 10,000 Matings

ENVIRONMENTAL CHARACTERISTICS

Temperature Range • Contact Blocks • Ribbon Patch Cords	-65 °C / +120 °C -40 °C / +85 °C
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MATERIALS

Insulation	Thermoplastic		
Body	Nickel or Tin Plated (Solder Connection) Copper Alloy / Brass		

ACCESSORIES

ELECTRICAL CHARACTERISTICS

	PCB TEST SOCKETS	TEST PROBE
Dielectric Withstand Voltage • Extra 10.16 Model	1,500 Vrms 50 Hz	1,000 Vrms
• Other Models	1,000 V	-
Operating Voltage	250 Vrms 50 Hz	250 Vrms 50Hz

MECHANICAL CHARACTERISTICS

Insulation Resistance	10,000 ΜΩ	5,000 ΜΩ

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 paint missess 2.8. Pen for <2.2 societ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R921 119 000	Nut-Tin-Plated Solder Strip Length: 4 mm Cable: AWG 20	P03
Pin for ©2 socket Pin for ©2 socket Socket ©2 for pin Max. quinel Socket ©2 for pin Max. quinel Socket ©2 for pin Max. quinel	R921 149 000	Male-Female Adapter with Nut	P03

INSULATED BANANA PLUGS

FIGURE	PART NUMBER	COLOR	DESCRIPTION	PANEL DRILLING
	R921 330 000	Black		
Pin for Ø2 socket Ø6.4	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 0.2 acceted pin Societic 0.2 for pin Societ	R921 461 000	Red	Stackable Plug with Quick Grip Clamp 2 mm rear socket	-



SOCKETS

UNINSULATED BANANA SOCKETS

	FIGURE	PART NUMBER	DESCRIPTION	PANEL DRILLING
	Societ 02 Mex. Offlats for pin O1.4 Max. panel 2. Inscheme 15	R921 609 000	Tin-Plated Solder Panel Mount: M3.5 x 0.35 Thread Strip Length: 4 mm Cable: AWG 20	P04
91	Socked 0.2 for pin Hex. Officis Hex. Officis O1.4 J J J J J J J J J J J J J J J J J J J	R921 629 000	Tin-Plated Solder Panel Mount: M4 x 0.5 Thread Strip Length: 4 mm Cable: AWG 20	P03

INSULATED BANANA SOCKETS

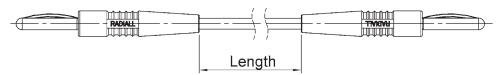
FIGURE	PART NUMBER	COLOR	DESCRIPTION	PANEL DRILLING
	R921 920 000	Black		
97.5 Socker 0.2 for pin	R921 921 000	Red		
60 pin	R921 922 000	Green	Machined Panel-Mount Socket Tin-Plated Solder Termination	D03
Max panel thickness 3.5	R921 923 000	Blue	Strip Length: 4 mm Cable: AWG 20	P02
3.5 Process 3.5	R921 924 000	Yellow	Cable: AWG 20	
	R921 926 000	White		
	R921 930 000	Black	Stamped Panel-Mount Socket Tin-Plated Solder Termination	P02
Hex. 7/flats Hex. 6/flats	R921 931 000	Red		
Sociati ©2 Dischars 0.5 The panel motores 9.5 Dischars 0.5	R921 932 000	Green		
	R921 933 000	Blue	Strip Length: 4 mm AWG 20 Wire	
	R921 934 000	Yellow	AvvG 20 vviie	
	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.



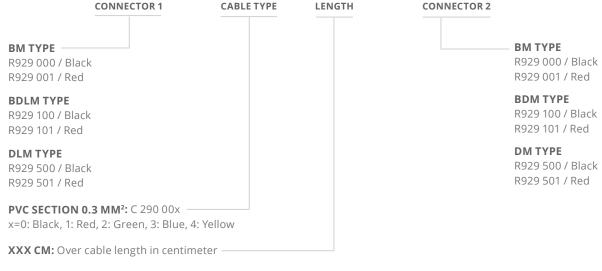
PLUGS



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



FOR FREE END: Please write the word "free"

EXAMPLE TO ORDER:

1 Black BLM Extremity / Red PVC Cable Length 40 cm / 1 Red BLM Plug.

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



20-WAY FIXED CONNECTORS

12 MM CONTACT PITCH

FIGURE	PART NUMBER	COLOR	TERMINATION
	R929 991 000	Blue	
5.8 4X12 5.8 4X12 9.4.5	R929 991 001	Red	
8 2 00000000 E 028	R929 991 002	Green	Solder Cup
2.6 9X6 9 2.9 Socket © 2 for pin	R929 991 003	Black	
	R929 991 004	Yellow	
5.8 6X12 Shokes for fixing 3 3.5 M3.50.65 9 3	R929 992 000	Blue	Pin

6 MM CONTACT PITCH

FIGURE	PART NUMBER	COLOR	TERMINATION
Sx (d 1.5 holes for faving for screws autotap 2 2 g.	R929 993 000	Blue	
5.7 4x12 <u>\$\phi\$1.4</u> \\ \frac{\phi}{\phi}2.8	R929 993 001	Red	
2.7 9x6 cogening drams 9 2.9 2.9	R929 993 002	Green	Solder Cup
	R929 993 003	Black	
100	R929 993 004	Yellow	
59.7 max 19 59.7 max 19 59.7 max 19 59.6 max 19 50.5	R929 994 003	Black	Pin

SHORT-CIRCUIT U LINK 12 mm Contact Pitch

FIGURE	PART NUMBER	COLOR
12.2 23.5	R644 543 000	Blue
Socket © 2 9.5 Electrical dispram	R644 543 001	Red
	R644 543 002	Green
	R644 543 003	Black
	R644 543 004	Yellow

6 mm Contact Pitch

FIGURE	PART NUMBER	COLOR
400 405	R644 543 020	Blue
Socket Ø2 19.5 Socket Ø2 19.5 Guide Hole Socket Ø2 19.5 RADIALL © RADIALL © Pin for Ø2 socket Electrical diagram	R644 543 021	Red
	R644 543 022	Green
	R644 543 023	Black
	R644 543 024	Yellow



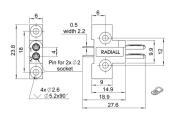
CONTACT BLOCKS

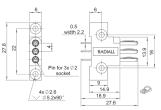
The contact blocks are available for different types of connections:

- 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



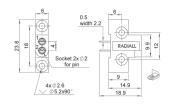




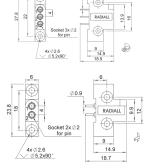
PART NUMBER	NOTE
R644 020 000	The Physical Courts of the Court of the Cour
R644 030 000	Tin-Plated Solder Cup

FEMALE CONTACT BLOCKS

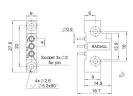












PART NUMBER	NOTE	
R644 120 000	Tip plated solder sup	
R644 130 000	Tin-plated solder cup	
R644 121 000	PCB Pins	
R644 131 000	PCB PINS	



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 4 Socket Ø 2 for pin	R921 911 000	Red	
	R921 912 000	Green	Took Coolink Fature 10.10 area
	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 .52 .508	R921 820 071	Red	
	R921 820 072	Green	To 1 Co 1 of Fator F 00 or or
	R921 820 073	Blue	Test Socket Entrax 5.08 mm
	R921 820 074	Yellow	
	R921 820 076	White	
S 24	R921 850 000	Black	Task Draha
89.5	R921 851 000	Red	Test Probe



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

2 MM / 4 MM ADAPTER	BNC / 2 MM ADAPTER	BNC / 4 MM ADAPTER	ADAPTER PATCH CORDS

ELECTRICAL CHARACTERISTICS

Current Rating, Max.	10 A (@ 20 °C)	-	5 A (@ 20 °C)
Dielectric Withstanding Voltage	1,500 Vrms @ 50 Hz	Two: 2,500 Vrms @ 50 Hz One-Way: 750 Vrms @ 50 Hz	1,500 Vrms @ 50 Hz
Operating Voltage	250 Vrms @ 50 Hz	-	250 Vrms @ 50 Hz
Insulation Resistance (Insulated Models)	5,000 ΜΩ	Two: 5,000 MΩ One-Way: 5,000 MΩ	5,000 ΜΩ

ENVIRONMENTAL CHARACTERISTICS

-40°C/+/0°C -40°C/+/0°C -40°C/+/0°C -40°C/+/0°C		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 11.7 38.8	R921 391 000	Red	Female Adapter

2 MM TO BNC ADAPTERS

FIGURE	PART NUMBER	COLOR	NOTE
2xSocket ©2 for pin.	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
20 September 54 Marine Annual September 54 Marin	R191 453 000	BNC: Male Banana: Two 4 mm Sockets
Schell © 4 for pin 44.5 terminal scrowed 45.5 terminal increased	R191 454 000	BNC: Male Banana: One 4 mm Socket
Pages for 24 socient	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
	R999 521 000	Red	20 cm Length

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)



Banana Adapters

PANEL DRILLING

P01



	m	m
	Maxi	mini
A	6.2	6.1

P02

P06



	m	m
	Maxi	mini
A	5.2	5.1

P03



	mm	
	Maxi	mini
A	4.2	4.1

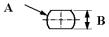
P04



	m	mm	
	Maxi	mini	
A	3.7	3.6	

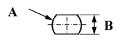
P05





	m	mm		
	Maxi	Maxi mini		
A	12.2	12.1		
В	11.2	11.1		





	mm		
	Maxi mini		
A	8.2	8.1	
В	7.2	7.1	