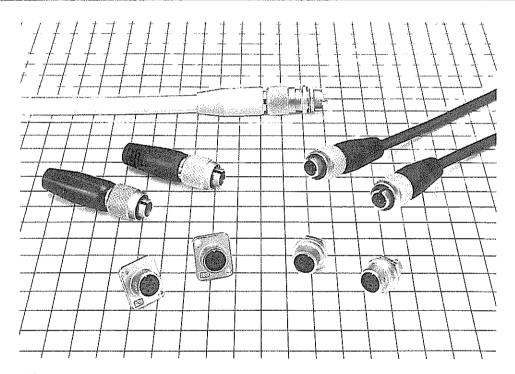
# HRS MXR Series

# MXR Type Connectors Miniature Push-Pull Connectors with Ground Function

### **GENERAL**

MXR type connectors are miniature, lightweight, push-pull lock connectors with a ground function which has been developed for use with VTR camera and system camera interfaces.



### **FEATURES**

- (1) The single action push-pull lock function allows quick connections and disconnections as well as high density mounting.
- (2) Verification of a secure engagement is afforded by a click sound which exemplifies the fine feel of this lock system.
- (3) Use of aluminum alloy for the shell has contributed to the lightweight design.
- (4) The metal portion of the shell forms part of the contacting structure as a measure toward FCC radiation requirements.
- (5) One of the conductors makes contact before the others in this sequenced design.
- (6) A simple tightening of the cable tube around the conductors permits the cable to be clamped, affording an increase in workability and a reduction in special tools.

## **APPLICATIONS**

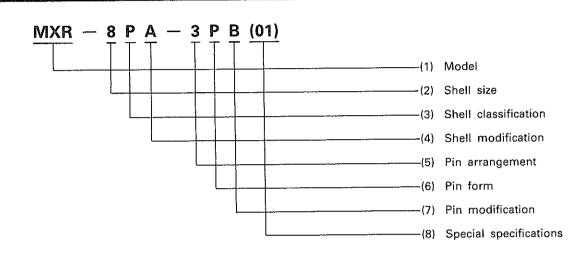
VTR cameras, system cameras, audio equipment, etc.

## **MATERIALS AND PROCESSING**

Part Name	Material	Processing Nickel plating	
Shell	Aluminum alloy		
Insulation	PBT resin*	(Black)	
Male pins	Brass	Gold plating	
Female pins	Phosphor bronze	Partial gold plating	

\*UL94V-0

## STRUCTURE OF THE PRODUCT NUMBER



Indicates the MXR Series (1) Model

Indicates the shell outer diameter at the plug engagement portion Shell size

: Classified as follows Shell classification P: Plug

R: Receptacle

(4) Shell modification

: Each time there is a modification of form related to the shell, the indicator changes in the

sequence of A, B, D, E, etc.

Indicated by the number of pins: 3 or 8. (5) Pin arrangement

: Classified as follows (6) Pin form

P: Male contacts S: Female contacts

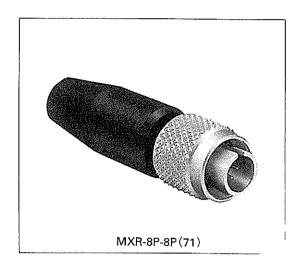
Each time a modification is made to the pin form, the indicator changes in the sequence of (7) Pin modification

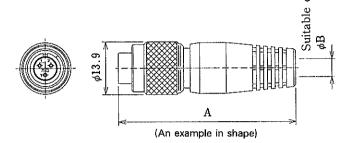
A, B, D, E, etc.

Each time there is a change in specifications other than the aforementioned, the indicator (8) Special specifications:

changes in the sequence of (01), (02), (03), etc.

# Plug

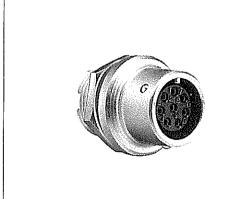




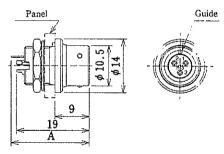
HRS No.	Part No.	A	φΒ	Weight	Bussing	Remarks	RoHS
127-0003-6-71	MXR-8PA-3PB (71)	47	5	8g	Black	Sequenced construction	
127-0004-9-71	MXR-8PA-4PB(71)	47	5	8g	Black	Sequenced construction	1
127-0005-1-71	MXR-8PA-6PB (71)	47	5	8g	Black	Sequenced construction	0
127-0002-3-71	MXR-8P-8P(71)	50	8	9g	Black		ĺ
127-0002-3-72	MXR-8P-8P(72)	50	8	9g	White		İ

# Receptacle (to be tightened with nut)

## (To be soldered)



MXR-8RA-8S (71)

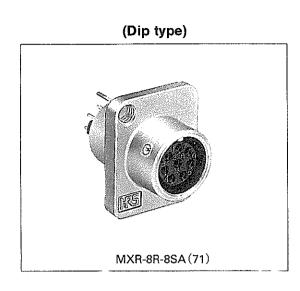


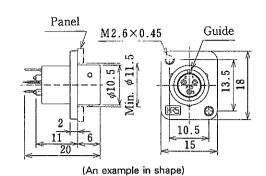
(An example in shape)

HRS No.	Part No.	Weight	Α	Remarks	RoHS
127-0121-2-71	MXR-8RA-3S (71)	3.5g	19.3		
127-0122-5-71	MXR-8RA-4S (71)	3.5g	19.3		_
127-0123-8-71	MXR-8RA-6S (71)	3.5g	19.3		$\neg$
127-0124-0-71	MXR-8RA-8S (71)	3.5g	20.4		

127-0102-8-71

## Receptacle (Flange type)



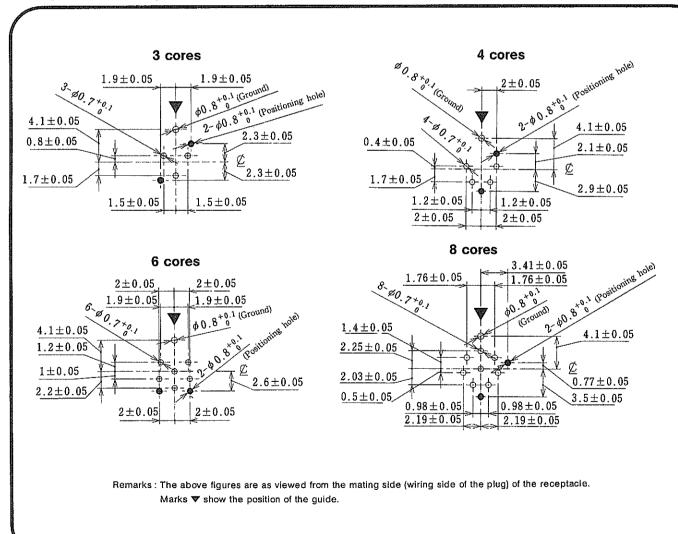


HRS No.	Part No.	Weight	Remarks	RoHS
127-0101-5-71	MXR-8R-3SA (71)	3.5g	with gold-plated contacts	İ
127-0103-0-71	MXR-8R-4SA (71)	3.5g	with gold-plated contacts	
127-0104-3-71	MXR-8R-6SA(71)	3.5g	with gold-plated contacts	

3.5g with gold-plated contacts

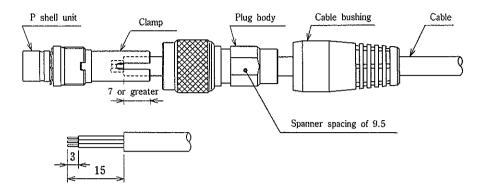
MXR-8R-8SA(71)

## Dip Post Arrangement Dimensions



# Outline of the Wiring Work

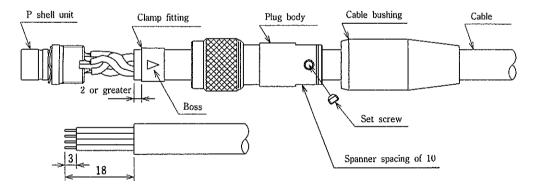
#### MXR-8PA-3PB



#### Work Procedure

- 1. Pass the cable bushing, plug body, and clamp over the cable in order and perform the end processing.
- 2. Solder the wires to the P shell unit.
- 3. Align the protruding portion of the clamp with the recessed portion of the P shell unit and mount.
- 4. Align the plug and cable sheath strip position, then tighten the plug body to the screw portion of the P shell unit with a torque of 1 N·m.
  - Note that to prevent loosening, an application of Locktight 271 manufactured by Nihon Locktight K.K. is recommended.
- 5. Put the cable bushing over the clamp body to complete the job.

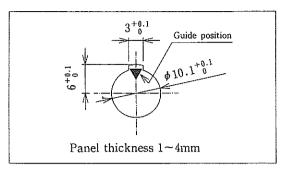
#### MXR-8P-8P

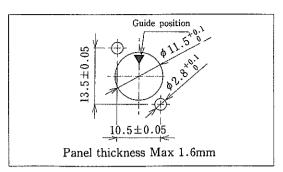


#### Work Procedure

- 1. Pass the cable bushing and plug body over the cable in order and perform the end processing.
- 2. Solder the wires to the P shell unit.
- 3. Fasten the clamp fitting to the cable with the cable crimping tool (HR10A-TC-04).
- 4. Tighten the clamp body to the screw portion of the P shell unit with a torque of 1 N·m. Note that to prevent loosening, an application of Locktight 271 manufactured by Nihon Locktight K.K. is recommended.
- 5. Tighten the set screw so that the tip falls into one of the two bosses of the clamp fitting. Note that a tightening torque of 0.3 N·m is specified.
- 6. Put the cable bushing over the clamp body to complete the job.

# Scale drawing of receptacle mounting holes





NOTES:

#### (Jam Nut Type)

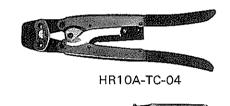
#### (Flange Type)

The diagram shows the view from the engagement side (i.e., plug wiring side) of the receptacle. Also note that the ▼ symbol indicates the guide position.

## Applicable Tools

Туре	HRS No.	Part No.	Applicable Connectors	
Tightening jig	150-0092-3	MXR-8P-T01	All plug products	
Cable crimping tool	150-0058-5	HR10A-TC-04	MXR-8P-8P	
Hexagonal wrench driver	150-0066-3	PB205/1.27	MXR-8P-8P	





MXR-8P-T01

PB205/1.27

# Pin Arrangement and Major Ratings

Number of poles	3	4	6	8		
Pin arrangement	② (1) ③	(1) (4) (2) (3)	(1) (5) (2) (4) (3)	(2 <sup>1</sup> )7 (3 8 6) (4 5)		
Withstand voltage		300 V AC for 1 minute				
Current capacity	2 A					
Insulation resistance	1000 MΩ or greater at 100 V DC					
Contact resistance	20 mΩ or less at 1A DC					
Solder pot diameter	0.9 mm dia.					

#### NOTES:

- The diagram shows the view from the engagement side (i.e., plug wiring side) of the receptacle. Also note that the ▼ symbol indicates the guide position.
- The withstand voltage value indicates the test voltage.
   The connector should normally be used at less than 50 V AC or 70 V DC.