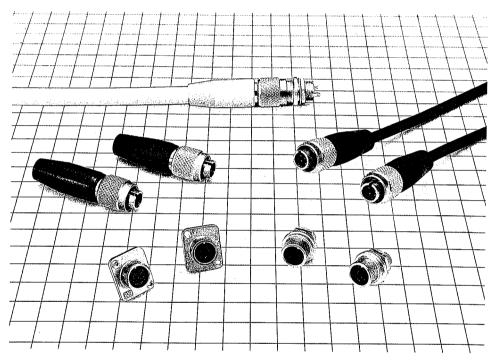
## **HS** MXR Series

# 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**

- 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

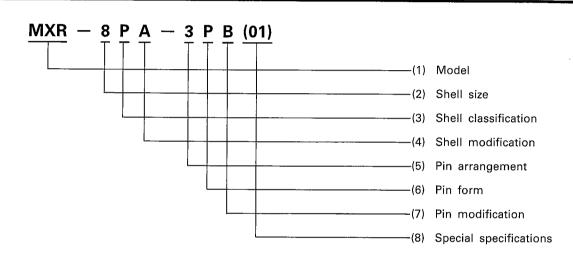
VTR cameras, system cameras, audio equipment, etc.

#### MATERIALS AND PROCESSING

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

\*UL94V-0

#### STRUCTURE OF THE PRODUCT NUMBER



(1) Model

: Indicates the MXR Series

(2) Shell size

Indicates the shell outer diameter at the plug engagement portion

(3) Shell classification

Classified as follows

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.

(5) Pin arrangement

Indicated by the number of pins: 3 or 8.

(6) Pin form

Classified as follows

P: Male contacts S: Female contacts (7) Pin modification

: Each time a modification is made to the pin form, the indicator changes in the sequence of

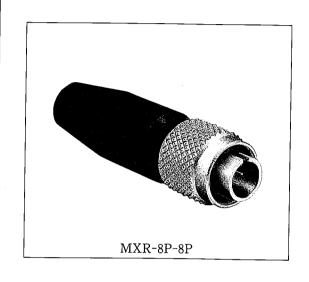
A, B, D, E, etc.

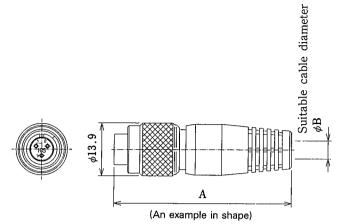
(8) Special specifications:

Each time there is a change in specifications other than the aforementioned, the indicator

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

## Plug

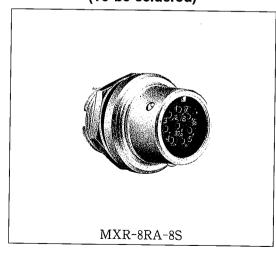


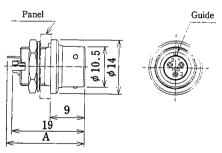


HRS No.	Part No.	Α	φВ	Weight	Bussing	Remarks
127-0003-6	MXR-8PA-3PB	47	5	8g	Black	Sequenced construction
127-0004-9	MXR-8PA-4PB	47	5	8g	Black	Sequenced construction
127-0005-1	MXR-8PA-6PB	47	5	8g	Black	Sequenced construction
127-0002-3	MXR-8P-8P	50	8	9g	Black	_
127-0002-3-01	MXR-8P-8P(01)	50	-8	9g	White	

## ■ Receptacle (to be tightened with nut)

#### (To be soldered)



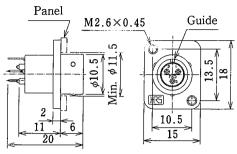


(An example in shape)

HRS No.	Part No.	Weight	_ A	Remarks
127-0121-2	MXR-8RA-3S	3.5g	19.3	with gold-plated contacts
127-0122-5	MXR-8RA-4S	3.5g	19.3	with gold-plated contacts
127-0123-8	MXR-8RA-6S	3.5g	19.3	with gold-plated contacts
127-0124-0	MXR-8RA-8S	3.5g	20.4	with gold-plated contacts

### ■ Receptacle (Flange type)

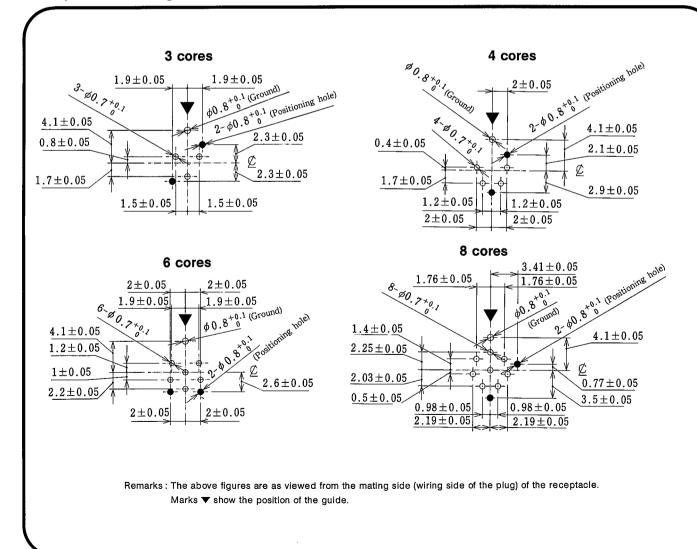




(An example in shape)

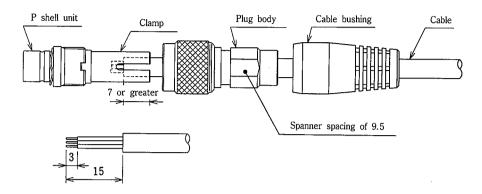
HRS No.	Part No.	Weight	Remarks
127-0101-5	MXR-8R-3SA	3.5g	with gold-plated contacts
127-0103-0	MXR-8R-4SA	3.5g	with gold-plated contacts
127-0104-3	MXR-8R-6SA	3.5g	with gold-plated contacts
127-0102-8	MXR-8R-8SA	3.5g	with gold-plated contacts

#### **●** Dip Post Arrangement Dimensions



## **●** Outline of the Wiring Work

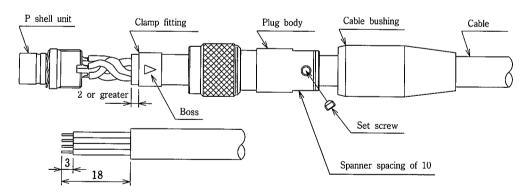
#### MXR-8PA-3PB



#### 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.

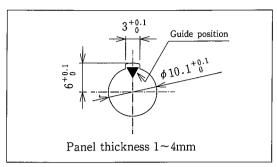
#### MXR-8P-8P

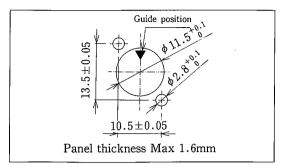


#### Work Procedure

- 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)

1. 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) (6) (4)	2 <sup>1</sup> 7 3 8 6 4 5	
Withstand voltage	300 V AC fcr 1 minute				
Current capacity	2 A				
Insulation resistance	1000 MΩ or greater at 100 V DC				
Contact resistance	20 m $\Omega$ 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.