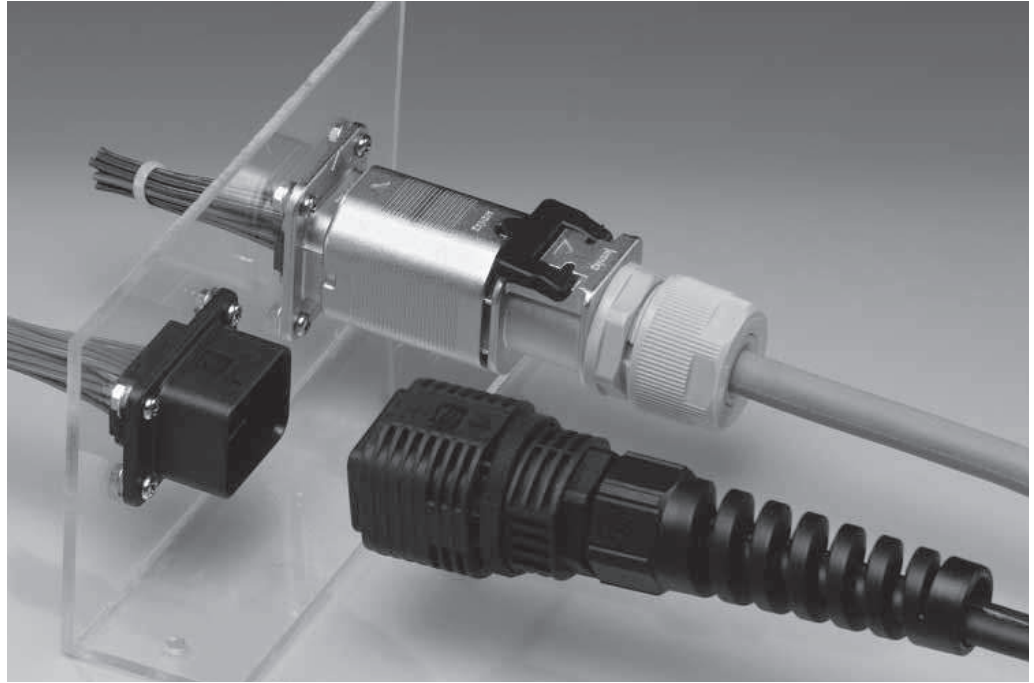


Dynamic Series Connectors

Multiple Enclosure Connector

Series profile

Human machine interfaces (HMI) can be found on a variety of machines. They allow people to interface with equipment to control, operate, program and do other things. The multiple enclosure connector was developed as a connector for I/O interfaces for HMI. They have superior operability, are very safe, easy to use and there are many variations. Plus, they use Dynamic series contacts to give them very high reliability. There are two types in the line up, metal and plastic, used according to the environment. You can make a selection based on your application.



Features

- 1. Wire sizes:**
The metal type supports wires with a finished diameter of $\phi 10$ to 11 mm, the molded type from $\phi 5$ to 12 mm.
- 2. Applicable terminals**
The highly reliable Dynamic D-1000 and D-3000 series terminals are used as contacts for I/O connectors for human machine interfaces (HMI). These can be crimped by using existing Dynamic crimping tools.
- 3. IP65 (molded type), IP67 (metal type) ingress protection.**
The connectors have the dust and water-proofing for use in harsh conditions.
- 4. Safety lock mechanism**
The lock mechanism uses the fast on/off lock concept which can be locked or released by just grabbing the connector. Plus, our proprietary double lock mechanism prevents vibration related disconnect accidents.
- 5. Two types of housing**
The lineup includes two types of housing, a standard type and a reverse type for preventing exposure of live contacts.
- 6. Cable gland interface**
Cable glands, which are commercially available and can be selected according to application and purpose, can be attached to cover the cable entering the connector.
- 7. Other considerations**
Safety caps with a definite locking sound to confirm connections are also available.

Dynamic Series Connectors

Multiple Enclosure Connector

Performance Specifications

Item	Specifications
Current Rating	See item on the right
Voltage Rating	125VACrms (2-mm pitch products)
Dielectric Withstanding Voltage	1000VAC (1 minute)
Operating Temperature	-30°C~105°C (Including temperature increase due to charging)
Contact Resistance	10 mΩ (initial) Max
Insulation resistance	1,000MΩ (initial) Min
Insertion Force	39.2N Max. (per position)
Extraction Force	4.9N Min. (per position)
Durability	50 Cycles
Housing Lock Strength	98 N Min

Specifications and Instruction Sheets

Molded type

Product Specification	108-78417
Application Specification	114-5377
Instruction Sheet	411-78293 (32P)

Contact Refer to D-1000, D-3000

Storage housing

Molded type

Contact	Receptacle Contact/Tab Contact				
Wire Size	AWG #22	AWG #24	AWG #26	AWG #28	AWG #30
No. of Pos.					
32Pos	1.5	1	0.8	0.5	0.5

Material and Finish

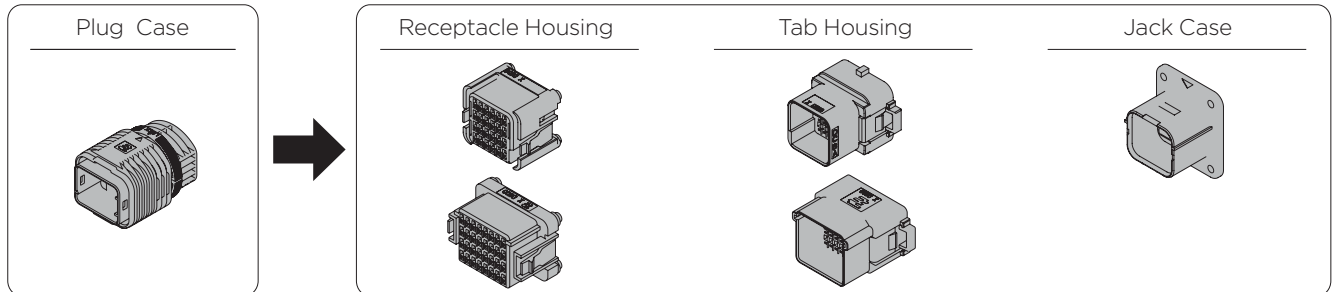
Molded type

Description	Material	Finish
Contact	Copper alloy	Gold plated with under-plated Nickel
Connector housing	UL 94V-0, Glass filled thermoplas polyester (PBT)	—
Connector case	UL 94V-0, Glass filled thermoplas polyester (PBT)	—
Packing	Nitrile butadiene rubber	—

Dynamic Series Connectors

Multiple Enclosure Connector

Part Number Chart / Outside Diameter



	Plug Case	Housing			Jack Case
		Receptacle (R) / Tab (T)			
32	1981919-1	Standard	1981921-1 (R)	1981914-1 (T)	1981913-1
		Reverse	2013393-1 (T)	2013391-1 (R)	

Shield Clip P/N. 1939851-1 (Use: Plug Case) Tool: 1891820-1 (411-78273)

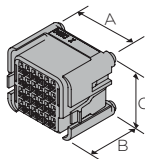
Information about related products

Applicable Contact32 positions: D-1000 series, page 351

Dimensions

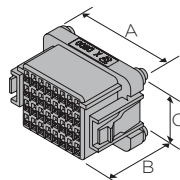
■ Receptacle Housing

Standard (Plug Case)



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
32	—	—	Black	1981921-1	27.2	15.3	17.6

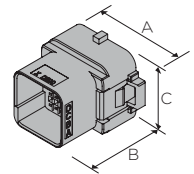
Reverse (Jack Case)



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
32	—	—	Black	2013391-1	29.5	23.0	17.0

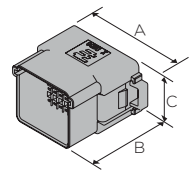
■ Tab Housing

Standard (Jack Case)



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
32	—	—	Black	1981914-1	29.5	22.3	17.0

Reverse (Plug Case)



No. of Pos.	Keying	Plating	Color	Part Number	Dimensions		
					A	B	C
32	—	—	Black	2013393-1	27.2	20.0	17.6