

# **MDP FTV**

Mini DisplayPort connection system for harsh environment





### **Description**

MDPFTV is a complete ruggedized solution around Mini DisplayPort standard using a Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) to connect the two plug and receptacle parts.

This solution allows you to insert a standard Mini DP cordset into a metallic plug which will protect it from shocks, dust and fluids. The assembly of this ruggedized plug doesn't require any tool and can be easily done directly on the field.

The corresponding MDP FTV receptacle dedicated to be mounted on your panel enables you to reinforce and protect your system against leakage, shocks, vibrations and much more.

#### Main features

#### Main characteristics:

- Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device.
- Shell size 13.
- No cabling operation in field and no tools required.
- Improved EMI protection.
- Mating cycles: 500 min.
- Panel thickness: 1,6 mm min and 3,18 mm max for jam nut receptacle.

#### Data Transmission:

- Display 1.4 protocol.
- Transmission bandwidth: 32.4 Gbit/s with 8.1 Gbit/s per lane.
- Can support 8K UHD (7680 × 4320) at 60 Hz or 4K UHD (3840 × 2160) at 120 Hz.

#### Environmental protection:

- Sealed against fluids and dusts: IP68 mated.
- Salt spray : Aluminium shell : Nickel plating < : 48h.

Black zinc nickel plating < : 500h. Olive drab cadmium plating: 500h

Fire retardant/Low smoke: EN45545 + UL94V0.

Vibrations: 10 - 500 Hz, 10 g, 3 axes: no discontinuity > 10 micro s.

Shocks: IK06 ▶ weight of 250 g drop from 40 cm [15.75 in]. onto connectors (mated pair).

Humidity: 21 days, 43°C, 98% humidity. Temperature range : -40°C / +85°C.

: RoHS compliant

## **Markets & Applications**



C4ISR, Battlefied, Ground vehicles





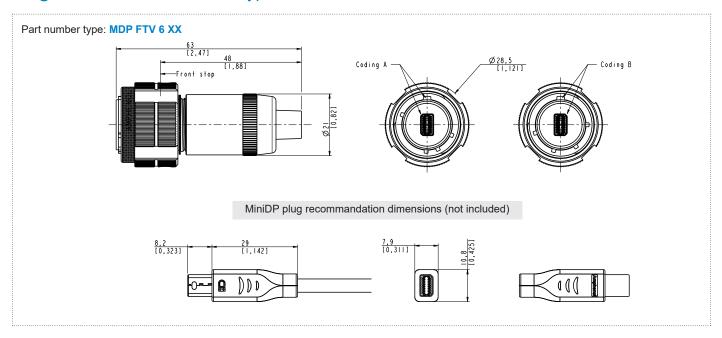


#### Applications:

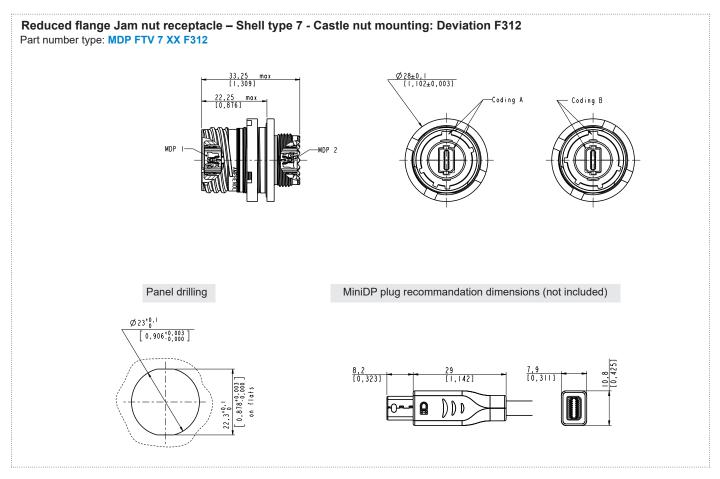
Data acquisition and transmission in harsh environment, radars, shelters, battlefield communication



### Plug without cordset - Shell type 6



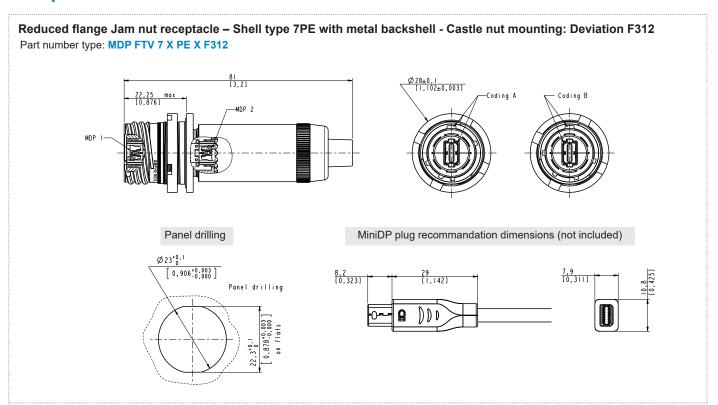
### **Receptacles**



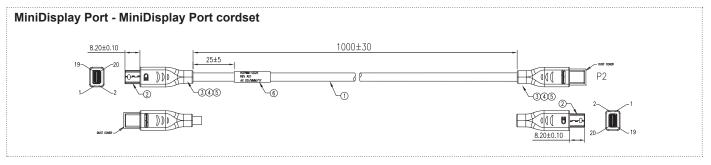
X: see the 'How to order' below to complete your part number

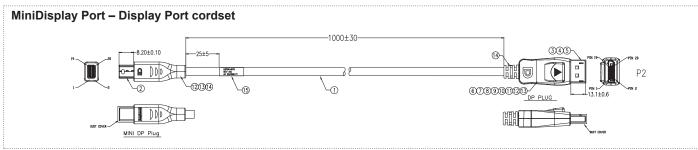


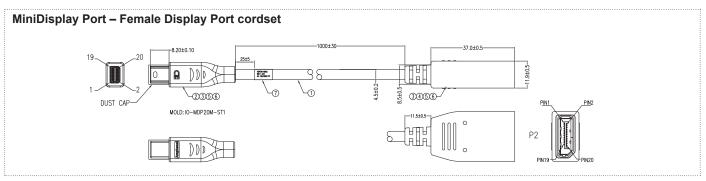
### **Receptacles**



### **Cordsets**







X: see the 'How to order' below to complete your part number

# **HOW TO ORDER**

### **Connector**

1.	2.	3.	4.	5.	6.
Series	Shell type	Coding	Backshell	Material and platings	Deviation
MDP FTV	7	Α	PE	G	F312

1. S	eries	5
MDF	PFTV	MiniDisplay Port
2. S	hell	type
	6	Plug
	7	Jam nut receptacle
3. C	odin	ıg
	A	Coding A
	В	Coding B

4. Backshell (for receptacle only)	
PE	Metal backshel

5. Material and platings			
***************************************	Shell material Shell finish		
G	Aluminum	Olive drab cadmium	
N		Nickel ✓	
ZN		Black zinc nickel ✓	

iation (for receptacle only)
Reduced flange receptacle

### Cordset

1.

Series	Cordset end	Coding
MDP	MDP	100

1. Series	3. Lenght
MDP MiniDisplay Port	100 1 m

3. Lenght		
100	1 m	
150	1,50 m	
200	2 m	

2. Cordset end		
MDP	Plug	
DP	Display Port	
DPF	Female Display Port	









# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Amphenol:

MDPFTV7AGF059 MDPFTV7ANF059 MDPFTV7BNF059 MDPFTV7BNF059 MDPFTV7BNF059 MDPFTVC6G MDPFTVC6N MDPFTVC6ZN MDPFTVC7GF057 MDPFTVC7NF057