

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



Railway

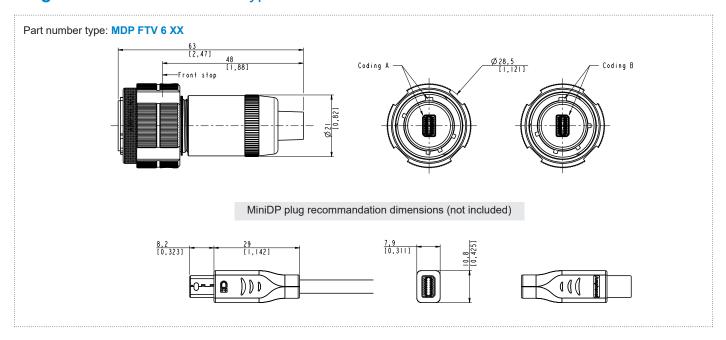


Applications:

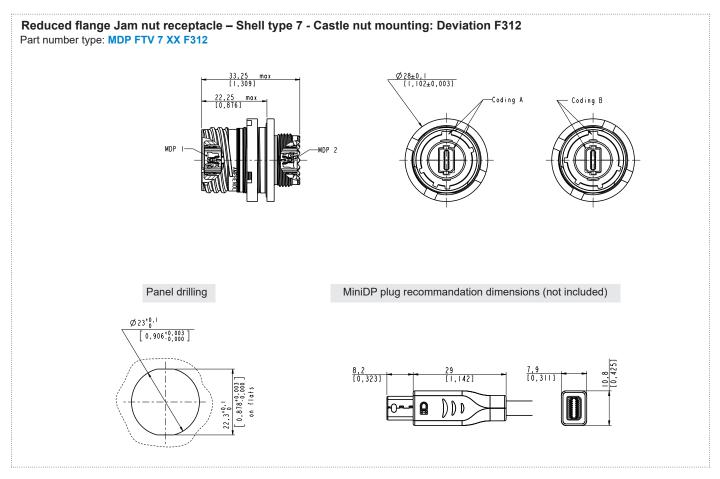
Data acquisition and transmission in harsh environment, radars, shelters, battlefield communication



Plug without cordset - Shell type 6



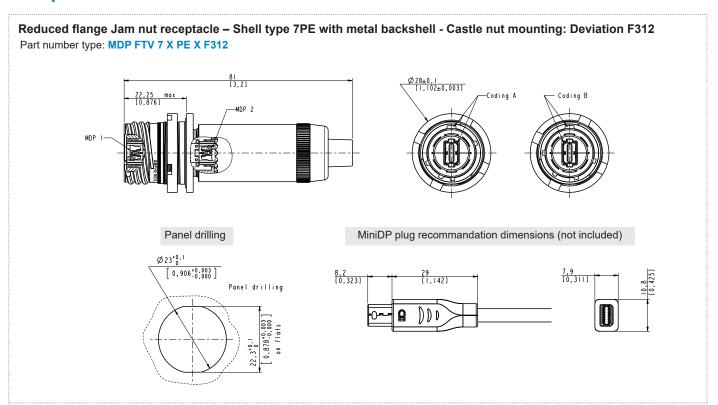
Receptacles



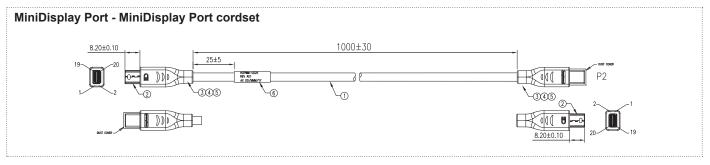
X: see the 'How to order' below to complete your part number

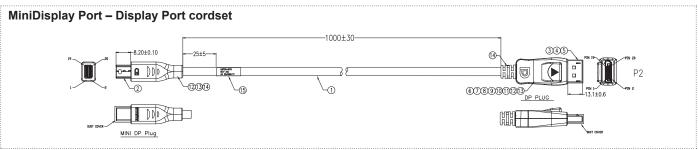


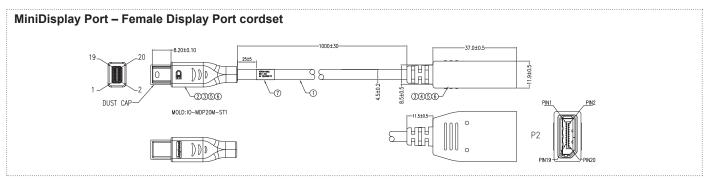
Receptacles



Cordsets







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