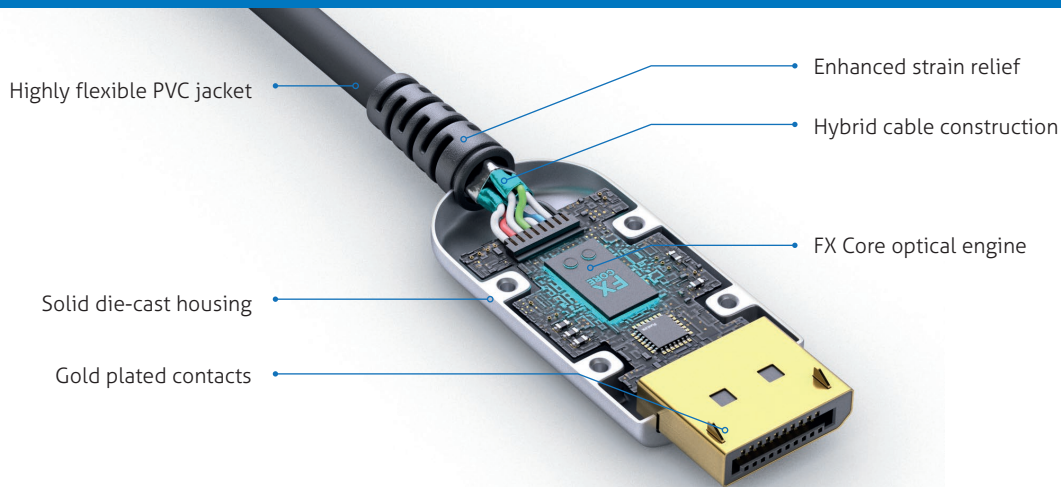


# FiberX Series

## FX-I250 | Active Optical DisplayPort 1.4 Cables



### DESCRIPTION

The FiberX Active Optical DisplayPort 1.4 Cables FX-I250 transmits uncompressed audio and video signals up to 100m distance.

This compact cable is designed for professional applications - it handles full 32.4 Gbps bandwidth with supreme 24/7 reliability while providing simple plug and play usability. It contains both fiber optic and copper cores, is lightweight, flexible and has an ultra-small bend radius.

With it's advanced optical engine the DisplayPort hybrid cable provides full DisplayPort signal integrity and supports transparent EDID, HDCP and DPCP as well as zero frame delay, no latency, no compression. The end user experience is that of a short high quality copper cable. Connect and perform.

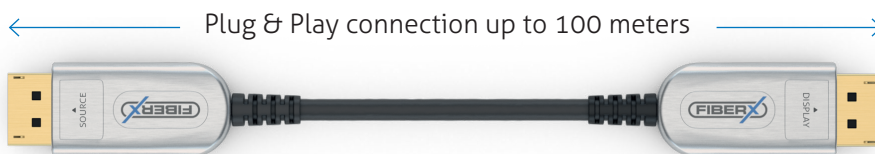
### FEATURES AND PERFORMANCE

- Active optical fiber transmission at full 32.4 Gbps bandwidth
- Resolutions up to 8K@60Hz 4:4:4 or 4K@144Hz (8bit) 4:4:4
- 8.1 Gbps / lane (HBR3) link rate
- DisplayPort 1.4 standard with DSC 1.2
- HDCP compliant
- Supports transparent EDID
- Zero frame delay, no latency, no compression
- Hybrid construction, super lightweight, small bend radius, compact design
- AUX and Hot Plug channels are transmitted by copper wire
- Kevlar reinforced sheath
- Supports all DisplayPort audio formats
- Easy Plug & Play installation
- Metal housing for optimized EMI protection
- MST (Multi Stream Transport) fähig

### APPLICATION

#### INPUT

Graphic Cards  
Gaming Devices  
Computer



#### OUTPUT

TV  
Monitor  
Projector



### DETAILED TECHNICAL SPECIFICATION

| Connections           |                         |
|-----------------------|-------------------------|
| Plug material         | Die cast zinc alloy     |
| Contact material      | 24 carat gold plating   |
| Shielded              | Yes                     |
| Connector 1           | DisplayPort male        |
| Dimension connector 1 | 46.9 x 20.0 x 12.3 (mm) |
| Connector 2           | DisplayPort male        |
| Dimension connector 2 | 46.9 x 20.0 x 12.3 (mm) |

| Cable                 |  |
|-----------------------|--|
| Type                  | AOC round cable  |
| Construction          | Hybrid optical cable<br>4x OM3 fiber<br>7x Copper wire |
| Outer sheath material | High flexible PVC                                      |
| Outer sheath diameter | 4.8mm  |
| Bend radius           | 48mm   |
| Pulling strength      | 300N   |

| Signal Transmission |   |
|---------------------|---|
| Transmission modes  | Digital audio and video signals   |
| Standard            | DisplayPort 1.4, HBR3, HDCP, EDID, DSC 1.2, MST   |
| Bandwidth           | 32.4 Gbps (8.1 Gbps / lane)   |
| Resolution          | Up to<br>8K / UltraHD-2 / 4320p @60Hz, 4:4:4<br>4K / UltraHD / 2160p @144Hz (8bit), 4:4:4 |
| Supported audio     | Up to 8 channels with 16 or 24 bits linear PCM<br>& 32 to 192 kHz sampling rates          |

| General                         |   |
|---------------------------------|---|
| Transmission distance           | Up to 100m  |
| Operation / storage temperature | 0°–50°C / -20°–85°C                                       |
| Humidity                        | 5–85% RH  |
| Power supply                    | No external power required<br>(draws current from source) |
| Power consumption               | <0,5W   |
| Certification                   | CE, FCC, REACH, ROHS                                      |

#### Connector

Standard DisplayPort connector

#### Shield

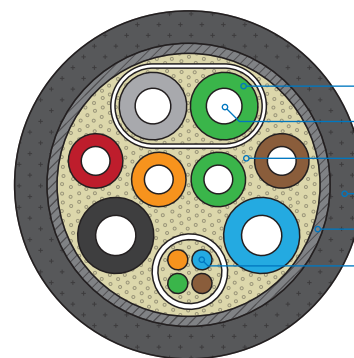
Robust EMI shield

#### Strain Relief

Enhanced bending cycles

#### Hybrid Cable

High flexible PVC



- Insulating layer
- Copper
- Aramid yarns
- Jacket
- Sheath
- Fiber

### PRODUCT OVERVIEW

| Part Number | Color | Length | EAN           | Weight  | Quantity (PU) | Weight (PU) | Size (PU)             |
|-------------|-------|--------|---------------|---------|---------------|-------------|-----------------------|
| FX-I250-010 | black | 10 m   | 4251364715178 | 0.80 kg | 10 pcs        | 8.0 kg      | 47 x 38.5 x 25.5 cm   |
| FX-I250-015 | black | 15 m   | 4251364715185 | 0.95 kg | 10 pcs        | 9.5 kg      | 47 x 38.5 x 25.5 cm   |
| FX-I250-020 | black | 20 m   | 4251364715192 | 1.05 kg | 10 pcs        | 10.5 kg     | 47 x 38.5 x 25.5 cm   |
| FX-I250-025 | black | 25 m   | 4251364715208 | 1.25 kg | 10 pcs        | 12.5 kg     | 47 x 38.5 x 25.5 cm   |
| FX-I250-030 | black | 30 m   | 4251364715215 | 1.30 kg | 10 pcs        | 13.0 kg     | 47 x 38.5 x 25.5 cm   |
| FX-I250-040 | black | 40 m   | 4251364715222 | 1.55 kg | 10 pcs        | 15.5 kg     | 47 x 38.5 x 25.5 cm   |
| FX-I250-050 | black | 50 m   | 4251364715239 | 2.15 kg | 10 pcs        | 21.5 kg     | 56.5 x 38.5 x 25.5 cm |
| FX-I250-060 | black | 60 m   | 4251364715246 | 2.35 kg | 10 pcs        | 23.5 kg     | 56.5 x 38.5 x 25.5 cm |
| FX-I250-070 | black | 70 m   | 4251364715253 | 2.60 kg | 5 pcs         | 13.0 kg     | 39 x 35 x 34.3 cm     |
| FX-I250-100 | black | 100 m  | 4251364715260 | 3.70 kg | 5 pcs         | 18.5 kg     | 39 x 35 x 34.3 cm     |