

LDP DisplayPort AOC

Overview

LUSEM DisplayPort 1.2a Active optical cable (LDP-xxxx) enables users to experience a generic Plug-and-Play uncompressed interconnect for distributing DisplayPort streams over the conventional reach of copper-based cables.

The cable is thin (0.15inches) and light (0.4lbs/33ft) and robust (500N pulling and crush load strength) and employs a hybrid topology where 4 strands of multimode optical fibers carry around the TMDS payload and the 6 strands of AWG28 insulated copper wires work with powering to cable and voltage assertion prior to hardware handshake operations such as DPCD, HDCP and EDID to play out the AV contents in the system.



The cable jacket option covers all US and EU flame-retardant requirements with low smoke halogen-free and CMP-OF Plenum cable jacket to the customers.

The optical fiber cable possesses de facto merits over conventional copper cables by reducing the risk of EMI and RFI degradation for stable performance when used in typically high interference environments wherever high resolution and 24/7 operation for displays are mandatory.

Users do not need to power externally this cable on sites since the cable is electronically designed to draw the current from the source device when the cable is interconnected with source and display devices.

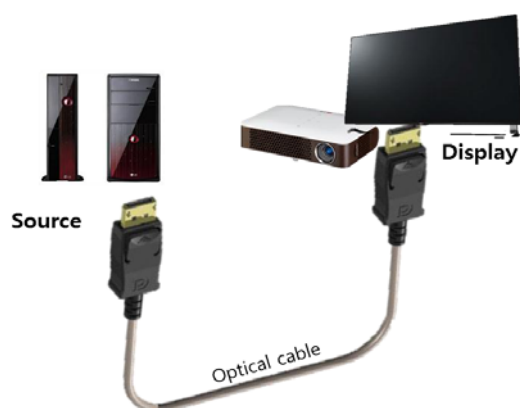
Features

- Supports Resolution : up to 4K/60Hz (3840x2160 & 4096x2160)
- Supports up to 21.6Gbps data rate with 5.4Gbps/lane (HBR2) link rate
- Extends DisplayPort stream up to 100m (328 feet)
- Supports up to 8 channels of 16 or 24bits linear PCM & 32 to 192KHz sampling rate
- Bi-directional hardware handshake with voltage assertion for HDCP, EDID and DPCP
- Complies with international flame-retardant standards (IEC with low smoke halogen-free, UL with CMP-OF Plenum)
- Plug & Play
- Low Power Consumption

Applications

- Professional AV System Interconnection
- In & Outdoor Digital Signage Panels & Kiosks
- Home Theater Systems
- Facility Automation Systems

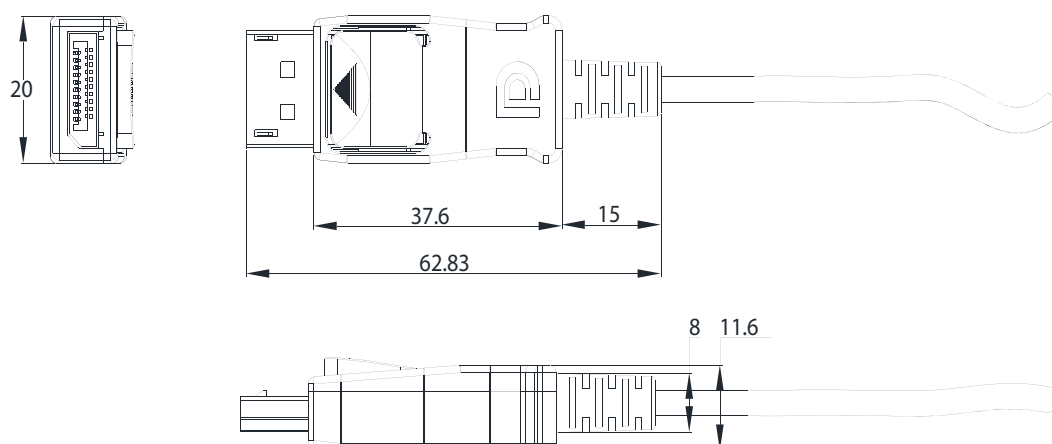
■ Product Installation



1. Plug in Tx Connector labeled "SOURCE" to DisplayPort port of source device like PC or Source device.
2. Plug in Rx Connector labeled "DISPLAY" to DisplayPort port of display device like a monitor or TV.

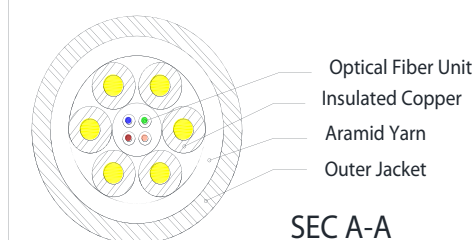
■ Dimensions Unit of Measure [mm]

DisplayPort Connector



Hybrid Cable

Cross-sectional Drawing of Cable



■ Order information

Model	Length	Order number
LDP-NL10	10m	8686-0001-10
LDP-NL15	15m	8686-0001-15
LDP-NL20	20m	8686-0001-20
LDP-NL30	30m	8686-0001-30
LDP-NL40	40m	8686-0001-40
LDP-NL50	50m	8686-0001-50

Model	Length	Order number
LDP-NL60	60m	8686-0001-60
LDP-NL70	70m	8686-0001-70
LDP-NL80	80m	8686-0001-80
LDP-NL90	90m	8686-0001-90
LDP-NLA0	100m	8686-0001-99

Distributor / Vertrieb:

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