

DisplayPort Cables With 4K/60Hz Support

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The DVIgear High Resolution DisplayPort copper cables transport DisplayPort signals at bit rates of up to 21.6Gbps over lengths of up to over 15m, with support for uncompressed DisplayPort resolutions up to 4096x2160/60Hz.



Copper cables carrying high resolution DisplayPort cables over long distances must overcome several challenges, such as insertion loss, differential skew and jitter. Insertion loss is caused by cable capacitance acting as a low-pass filter, blocking higher frequency signal components. Skew occurs when differential DisplayPort signals get delayed and become out of phase when passing over a long cable.

Both factors increase digital jitter, which worsens with higher resolutions, higher bit rates and longer cable distances.

DVIgear claims the HR Series DisplayPort cables overcome such challenges via the use of heavy gauge 24AWG copper wires, which provide ruggedness and durability. The heavier wire gauge has increased cross-sectional cable area, as well as decreased capacitance and lower differential skew, allowing high-speed signals to pass with minimal jitters.

Thus the cables reach up to 15m in length, with full compliance with DisplayPort 1.2 signal parameters, the company says.

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