

DigitalMedia™ Ultra Cable, Plenum Type CMP

- > Ultra high-bandwidth CAT7a shield twisted pair (S/FTP) cable
- > Enables lossless distribution of 4K and Ultra HD video signals at distances of 330 ft (100 m) via DM 8G+® or HDBaseT®
- > Ensures Crestron® guaranteed performance for DigitalMedia 8G+® systems
- > Exceeds HDMI® specifications requiring less than one pixel error per billion
- > Qualified for use with 10-Gigabit Ethernet data networks
- > Every spool individually tested and certified
- > Measurement markings on the outer jacket
- > Type CMP “plenum” rated



Crestron® DigitalMedia™ Ultra Cable (DM-CBL-ULTRA-P) is a high-bandwidth CAT7a shielded twisted pair (S/FTP) cable that is engineered to deliver optimum performance for 10 gigabit data networking and 4K ultra high-definition AV signal distribution applications. It is precision manufactured and tested to exceed HDMI® specifications requiring less than one pixel error per billion at distances up to 330 ft (100 m).

DigitalMedia (DM®) Ultra Cable provides a Crestron guaranteed wiring solution for use with Crestron DigitalMedia 8G+® (DM 8G+®) devices, and is also highly recommended for use with HDBaseT® and other CATx based video and audio systems. DM Ultra Cable is qualified for use with 10-Gigabit Ethernet and anywhere else a high-quality shielded CAT5e, CAT6, or CAT7 cable is required.

DM Ultra Cable is easily terminated using Crestron [DM-CONN](#) shielded RJ45 type connectors. No crimping tool is required, affording fast and reliable termination in the field.^[1]

DM-CBL-ULTRA-P is Type CMP “plenum” rated for installation in environmental air-handling spaces.

SPECIFICATIONS

Construction

S/FTP with four individually shielded twisted pairs, overall shield, and overall jacket

Electrical & Performance

Mutual Capacitance: ≤5.6 nF / 100 m @ 1 kHz

Velocity of Propagation: 74% nominal

Delay Skew: ≤25 ns / 100 m

Conductor DC Resistance: ≤95 Ohms / km @ 20°C

Conductor DC Resistance Unbalance: ≤2% @ 20°C

Pair to Ground Capacitance Unbalance: ≤1600 pF / km

Characteristic Impedance: 100 Ohms nominal

(4) Shielded Twisted Pairs

Colors: Blue/white, orange/white, green/white, brown/white

Conductors: 22 AWG solid bare copper

Insulation: Foam FEP

Outer Diameter (per conductor): 0.056 inch (1.41 mm) nominal

Shield (per pair): AL foil

Overall Shield

Shield: Tinned copper braid (>50% coverage)

Outer Jacket

Color: Blue

Material: Low Smoke PVC

Thickness: 0.018 inch (0.45 mm)

Outer Diameter: 0.304 inch (7.7 mm) nominal

Minimum Recommended Bend Radius: 2.44 inches (62 mm)

Maximum Recommended Pull Tension: 25 lbf (111 N)

Environmental

Operating Temperature: -4° to 140°F (-20° to 60°C)

Weight

Bulk Cable Weight: 41.67 lb / 1000 ft (62 kg / km)

Compliance

Type CMP, NEC Article 800, UL Subject 444, cUL, IEC 61156-5, ISO/IEC 11801, Category 7a

DM-CBL-ULTRA-P DigitalMedia™ Ultra Cable, Plenum Type CMP

MODELS & ACCESSORIES

Available Models

DM-CBL-ULTRA-P-SP500: DigitalMedia™ Ultra Cable, Plenum Type CMP, 500 ft spool

DM-CBL-ULTRA-P-SP1000: DigitalMedia™ Ultra Cable, Plenum Type CMP, 1000 ft spool

Available Accessories

DM-CONN: Connector for DM-CBL-ULTRA

Notes:

1. DM-CONN connectors sold separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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