DM-CBL-8G-NP

DigitalMedia 8G™ Cable, non-plenum

- *350 MHz ultra high-performance shielded CAT5e*
- *Optimized for high-definition digital AV and Ethernet data networking applications*
- *Precision manufactured and tested to exceed CAT5e specifications*
- *Qualified for use wherever a high-quality shielded CAT5e is required*
- *Ensures Crestron® guaranteed performance for DigitalMedia 8G+™ and Sonnex® Link*
- *Highly recommended for use with HDBaseT™*
- *Every spool is individually tested and certified*
- *Available in plenum and non-plenum versions*

Crestron® DigitalMedia 8G™ Cable (DM-CBL-8G-NP) is a 350MHz-certified shielded twisted-pair (STP) cable that is engineered to deliver optimum performance for use in data networking and high-definition AV signal distribution applications. It is precision manufactured and tested to significantly exceed the CAT5e specifications for bandwidth, crosstalk, and interference rejection, and is qualified for use wherever a high-quality shielded CAT5e wire is required. DigitalMedia 8G Cable provides a complete Crestron-guaranteed wiring solution for use with DigitalMedia 8G+™ devices, and is also highly recommended for use with Sonnex® Multiroom Audio Systems, HDBaseT™, and other CAT5e based audio, video, and data distribution products.

350MHz Multimedia and Data-Grade Shielded CAT5e

For digital multimedia or Ethernet data networking, DM 8G® Cable provides the finest shielded CAT5e on the market. Every spool is individually certified to ANSI/TIA/EIA-568-B.2 Category 5e, and tested to 350 MHz bandwidth, ensuring ultimate performance for demanding AV and data network applications. Its high-quality 100% foil shield ensures very low EMI/RFI interference, preventing video signal interruption or loss of data — even in noisy environments. Foot markers printed on the cable's outer jacket make it easy to verify the exact length of each cable during installation.

DigitalMedia 8G+™ HD AV Signal Distribution over One Wire

Crestron DigitalMedia™ (DM®) is the world's most evolved system solution for distributing uncompressed, high-definition digital video and audio throughout a home or commercial structure. DigitalMedia 8G+ is the latest generation of DM, providing a true one-wire transport for moving HD and Ultra HD video, high-bitrate 7.1 audio, high-speed Ethernet, and power over CAT5e. DigitalMedia 8G Cable is specially designed and pre-qualified for use with DM 8G+™ transmitters, receivers, and switchers. Compared to ordinary CAT5e, DM 8G Cable affords much higher performance margin to ensure a reliable installation every time.[1]

HDBaseT™ Recommended

HDBaseT technology is a consumer electronic connectivity technology optimized for whole-home and commercial multimedia distribution. HDBaseT converges uncompressed full HD digital video, audio, Ethernet, power, and control signals through a single CAT5e cable. Crestron DM 8G Cable is ideally designed and tested for use with HDBaseT products.

A Complete Crestron-Guaranteed Solution

Termination of DM 8G cable is accomplished using Crestron DM-8G-CONN shielded RJ45 type connectors. The DM-8G-CONN connector is specially designed to maintain maximum bandwidth and provide 100% shielding against interference to ensure consistent, reliable system performance. Quick and easy field-termination if facilitated using the DM-8G-CRIMP crimping tool.[2]

For plenum applications, use DM-CBL-8G-P.

DM-CBL-8G-NP DigitalMedia 8G™ Cable, non-plenum

SPECIFICATIONS

Construction

Four twisted pair, inner jacket, drain, shield, ripcord and overall jacket

Electrical & Performance

Mutual Capacitance: 17.1 pF / ft
Velocity of Propagation: 69%
Propagation Delay Skew: 45nS / 100 m
DC Resistance: 28.6 Ohms / 1000 ft maximum
DC Resistance Unbalance of a Pair: 5% maximum
Capacitance Unbalance: 330 pF / 100 m
Characteristic Impedance: 100 Ohms ±15% (1-250 MHz)

(4) Twisted Pairs

Colors: Blue/white, orange/white, green/white, brown/white
Conductors: 24 AWG x8 solid copper
Insulation: 0.0055 inch thick HDPE
Outer Diameter (per conductor): 0.040 inch (1.016 mm) maximum

Inner Jacket

Color: White
Material: PVC
Thickness: 0.0135 ±0.0015 inch

Shield

Drain: 26 AWG solid tin/copper
Shield: Aluminum foil (100% coverage)

Outer Jacket

Color: Blue
Material: PVC
Thickness: 0.018 inch
Outer Diameter: 0.244 ±0.006 inch (6.2 ±0.15 mm)
Minimum Recommended Bend Radius: 2.75 inches
Maximum Pull Tension: 25 lbf

Rating

NEC Article 800; UL Subject 444, Type CM; CSA Type CMR; ANSI/TIA/EIA-568-B.2 Category 5e

MODELS & ACCESSORIES

Available Models

DM-CBL-8G-NP-SP500: DigitalMedia 8G™ Cable, non-plenum, 500 ft spool
DM-CBL-8G-NP-SP1000: DigitalMedia 8G™ Cable, non-plenum, 1000 ft spool

Available Accessories

DM-8G-CONN-100: DigitalMedia 8G™ Cable Connector, 100-Pack
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN

Notes:

1. Refer to the Crestron DigitalMedia Design Guide, Doc. #4546 for complete DM system design guidelines.
2. All connectors and crimp tool 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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