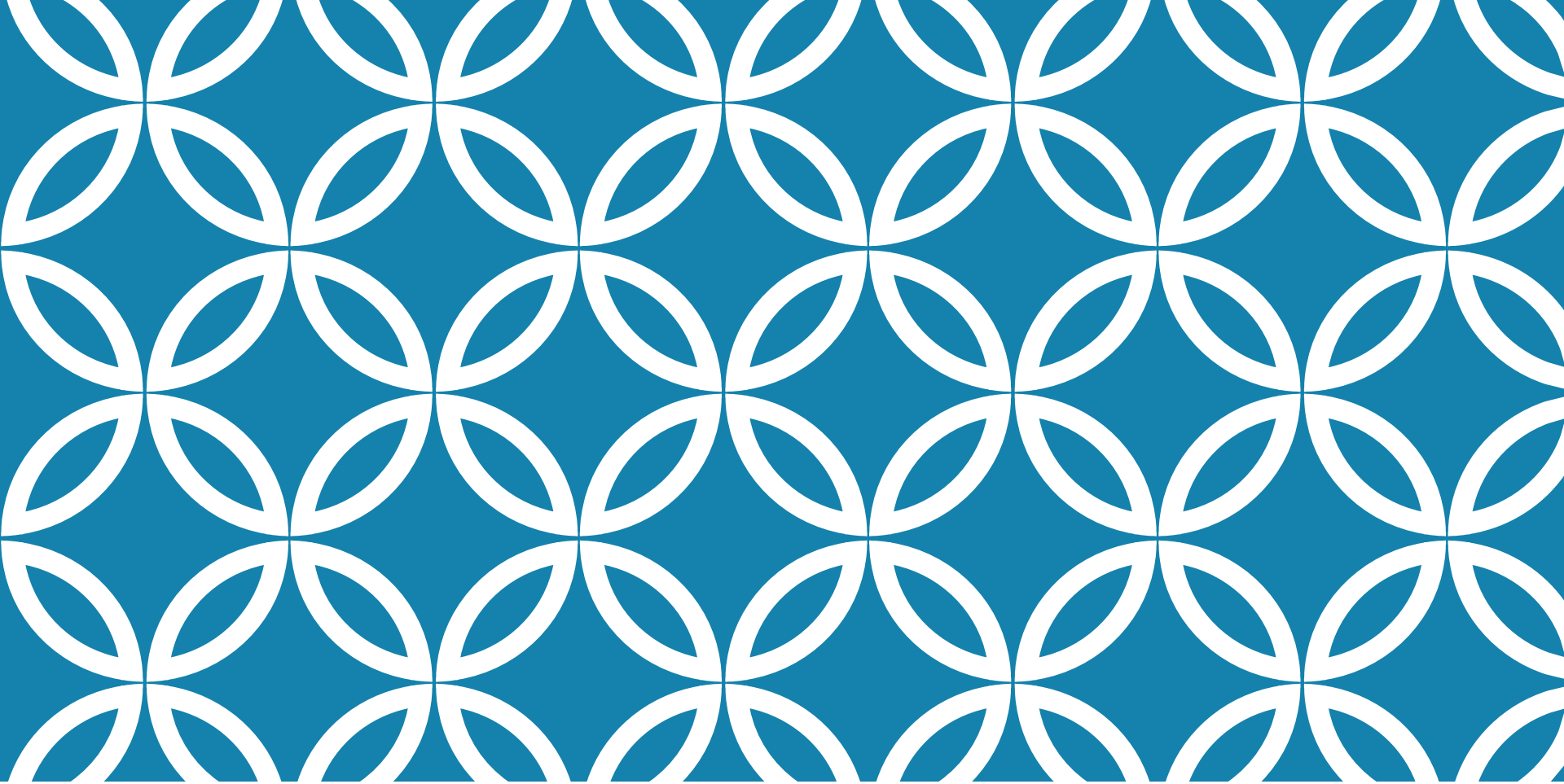

DIGITAL CABLES

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DIGITAL CABLES

Stereo (2 channel) digital cables

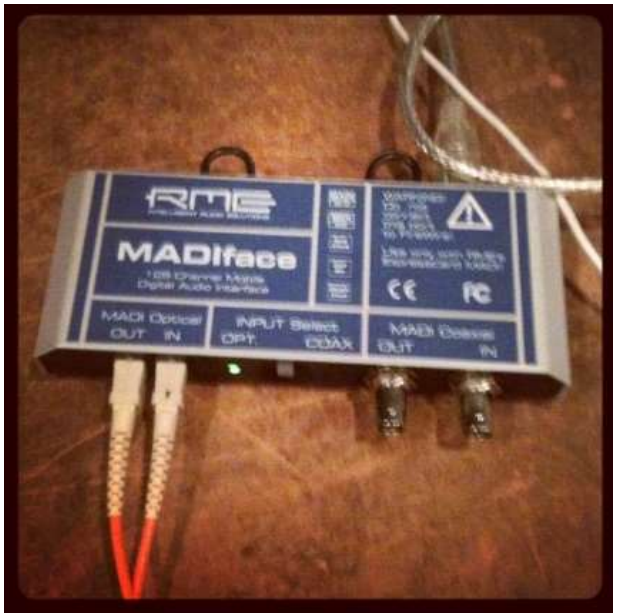
- AES/EBU (Audio Engineering Society/ European Broadcast Union):
  - It is primarily a stereo balanced transmission format for digital audio. AES/EBU requires a cable with microphone (XLR) connectors.
  - Common lengths for these pathways is from 3-15 feet
  - Though this format was originally a 2 track digital audio transmission format, it now supports up to 8 tracks of digital signal transmission.

- S/PDIF: (Stands for the Sony/Phillips Digital Interface) :
  - There are two types: Coaxial and Optical.
  - Coaxial requires a cable with RCA connectors.
  - The limit on length is 6 meters or 19.8 feet which is fine for the home studio.
- TOSLINK
  - The square connectors were invented by Toshiba called TOSLINK connectors.
  - It transmits digital data as optical light pulses

Multi-Channel Digital Cables

- TDIF
  - The Tascam Digital Interface (TDIF) is a proprietary format connector defined by TASCAM that is unbalanced and uses a 25-pin D-sub cable to transmit and/or receive up to eight channels of digital audio between compatible devices.

- ADAT
  - The ADAT Lightpipe, officially the ADAT Optical Interface, is a standard for the transfer of digital audio between equipment.
  - It can transmit upto 8 channels of audio through single optical cable.

MADI

- Multichannel Audio Digital Interface (MADI)
- MADI supports serial digital transmission over coaxial cable or fibre-optic lines of 28, 56, or 32, 64 channels;
- sampling rates to 962 kHz and beyond with an audio bit depth of up to 24 bits per channel.
- Like AES3 and ADAT Lightpipe, it is a unidirectional interface from one sender to one receiver.