



## Green series digi grade AES/EBU 110 Ohm UPOFC cable

Van Damme Green series has been specifically designed for the accurate transmission of digital audio signals. Great attention has been paid to the electrical characteristics and conductor capacitance to ensure that signals remain error free even over long distances. In addition the low capacitance of this range makes Green series particularly suitable for other data signals such as RS422, RS485, DMX, Midi and timecode. It is also suitable for analogue balanced audio.

### Materials

Van Damme now use a higher purity oxygen free copper for the conductors - Ultra Pure Oxygen Free Copper (UPOFC). The use of this material further improves the 'solderability' and conductivity of the conductor resulting in faithful and transparent signal reproduction.

Foam skin polyolefin is used for the conductor insulation. This special insulation is made up of individual pockets of inert gas suspended in polyolefin, resulting in a low dielectric constant (2.3) and most importantly low capacitance. The skin refers to the outer layer of the insulation, which forms during the extrusion process. This skin is harder than the layer of insulation below it ensuring that the conductor is well protected. The dielectric constant of foam skin polyolefin remains stable over a wide frequency range, essential for transmission of digital signals. Other relevant properties include good stress and temperature resistance.

For the one pair and multicore, pairs are twisted together with a tinned UPOFC drain wire and shielded with an aluminium/polyester foil screen. The 150% coverage method employed ensures that the pair is fully screened and that the drain wire remains in close contact with the conductive aluminium foil allowing interference to be effectively taken to ground.

The individual pairs, multicore and AES microphone cable are all oversheathed with the same soft abrasion resistant PVC composite jacket.

Each individual pre-jacketed pair within the Green series multicore is clearly numbered along its length and, new for this catalogue, Green series conductors are now colour coded to same IEC standard as Blue and Black series. With the introduction of the 16 and 24 pair versions this upgrade will make all the difference to the preparation and termination time for this cable range.

Green series digi grade 1 pair has 24AWG conductors, but all multicore types have 26AWG conductors. Typically the insulation of low capacitance conductors is larger than mid capacitance conductors, and in order to keep the green series multicore overall diameters to reasonable and application-suitable sizes, it is necessary to use a smaller centre conductor. Experience has shown that this 26AWG conductor can provide a reliable crimp or solder termination providing the crimp tool is correctly calibrated and a 24-26 or 26-28AWG die is used. If Van Damme Green series 8 pair used 24 AWG conductors it would not have fitted into commercially available D25 hood covers.

Van Damme Green series AES/EBU microphone cable is available only in green. It features 24AWG conductors and lapped copper screen for the ultimate protection against interference. When combined with the new Neutrik AES/EBU XLRs it provides the highest specification for digital interconnection.

Van Damme Green series is now available as a 1 pair installation type, and as 2,4,8,16 and 24 pair multicore all with IEC colour coded conductors. As digital audio becomes more prevalent especially within the studio environment, the introduction of the 16 and 24 pair types is well timed. In addition the AES/EBU microphone cable is available for heavy-duty applications in non-installation environments.

#### Applications

- Transmission of digital audio signals in installations, multipin cables, XLR looms and single XLR cables
- RS422, RS485, DMX512, Midi and timecode applications
- GPO, bantam and XLR patchbay wiring for digital audio signals

Order code	Description
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268-401-0501	Pair
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268-402-050	AES mic
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268-412-0502	Pair
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268-414-0504	Pair
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268-418-0508	Pair
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268-416-05016	Pair
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268-424-05024	Pair
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