



cable

Green Series Digi Grade AES/EBU 110 Ohm UP-OFC



Van Damme Green Series Digi Grade cables have been specifically designed for the accurate transmission of AES/EBU digital audio signals. Low capacitance and stable characteristic impedance ensure that signals remain error and jitter free over long distances. This also makes this cable range suitable for other critical data transfer applications such as RS422, midi and timecode. Also suitable for balanced analogue audio use.

Applications

- Digital audio signal transmission for installations, equipment racks and devices from 1 - 24 pairs
- Break-in and break-out cables for Digital Audio Workstations, Analogue to Digital and Digital to Analogue converters
- AES microphone cable for interfacing 2 track AES I/Os and flexible patchcords
- Cabling for AES specific audio patchbays
- Any 100 to 110 Ohm balanced data application such as RS422, RS485, DMX512 and timecode

Application notes

- Suitable for analogue balanced audio as well as AES/EBU
- Multicore types have 26AWG conductors for reduced overall diameter; 8 pair variant will comfortably fit into the industry standard AES D25 connector shell
- Ultra pure oxygen free copper for outstanding sonic integrity



green series

Multicore cables 2, 4, 8, 16 and 24 pairs

| Pair specifications | | | |
|-----------------------------|-----------------------|--|-------------|
| Conductor | Material | Bare ultra pure oxygen free copper wire | |
| | Stranding | 7 x 0.16mm (0.14mm ²) AWG 26/7 | |
| Insulation | Material | Foam skin polyolefin | |
| | Average thickness | 0.30mm | |
| | Diameter | 1.10mm ±0.10 | |
| | Colour coding | IEC 189-2 appendix A | |
| Cabling | Type | Twisted pair | |
| | Lay length | ~25mm | |
| Screen | Type | 24µm Aluminium/polyester foil >150% coverage | |
| | Drain wire | 7 x 0.16 (0.14mm ²) AWG 26/7 | |
| Jacket | Material | PVC composite Pebble grey RAL 7032 | |
| | Average thickness | 0.30mm | |
| | Overall diameter | 2.90mm ±0.10 | |
| Overall Jacket | | | |
| Overall jacket | Material | Flexible PVC composite | |
| | Colour | Leaf green RAL 6002 | |
| | Average thickness | See characteristics by stock code | |
| Bend radius | 10 x overall diameter | | |
| Physical properties un-aged | | | |
| Jacket (at 60°C) | Tensile strength | >10N/mm ² | |
| | Elongation | >100% | |
| | Heat shock test | 150 °C x 1 hour - no cracks | |
| Electrical characteristics | | | |
| Resistance | Conductor | Ohm/Km | <144 |
| | Shield | | <140 |
| | Insulation | M Ohm/Km | >5000 |
| Capacitance | Core to core | pF/m | 50 nominal |
| | Core to shield | | 100 nominal |
| Impedance | 110 Ohms ±20% | | |
| Attenuation at 3 MHz | 7.05 dB/100m | | |
| Test voltage | 500 Vdc x 1 minute OK | | |



cable

1 pair cable 268-401-050

| | | | |
|---|-------------------|--|-------------|
| Conductor | Material | Bare ultra pure oxygen free copper wire | |
| | Stranding | 7 x 0.20mm (0.22mm ²) AWG 24/7 | |
| Insulation | Material | Foam skin polyolefin | |
| | Average thickness | 0.20mm | |
| | Diameter | 1.40mm ±0.10 | |
| | Colour coding | Red/black | |
| Cabling | Type | Twisted pair | |
| | Lay length | ~25mm | |
| Screen | Type | 24µm Aluminium/polyester foil >150% coverage | |
| | Drain wire | 7 x 0.20mm (0.22mm ²) AWG 24/7 | |
| Jacket | Material | PVC composite Pebble grey RAL 7032 | |
| | Average thickness | 0.50mm | |
| | Overall diameter | 3.90mm ±0.15 | |
| Physical properties un-aged Jacket (at 60°C) | | | |
| | Tensile strength | >12.5N/mm ² | |
| | Elongation | >100% | |
| | Heat shock test | 150 °C x 1 hour - no cracks | |
| Electrical characteristics | | | |
| Resistance | Conductor | Ohm/Km | <90 |
| | Shield | | <70 |
| | Insulation | M Ohm/Km | >5000 |
| Capacitance | Core to core | pF/m | 50 nominal |
| | Core to shield | | 100 nominal |
| Impedance | | 110 Ohms ±20% | |
| Test voltage | | 500 Vdc x 1 minute OK | |

AES microphone cable 268-402-050

| | | | |
|---|-------------------|--|--|
| Conductor | Material | Bare ultra pure oxygen free copper wire | |
| | Stranding | 7 x 0.20mm (0.22mm ²) AWG 24/7 | |
| Insulation | Material | Foam skin polyolefin | |
| | Average thickness | 0.45mm | |
| | Diameter | 1.40mm ±0.10 | |
| | Colour coding | Red/blue | |
| Cabling | Type | Twisted pair + cotton fillers | |
| | Lay length | ~50mm | |
| Screen | Type | 72 x 0.10mm lapped bare copper >90% coverage | |
| | Separator | Polyester | |
| Jacket | Material | PVC composite Leaf green RAL 6002 | |
| | Average thickness | 1.50mm | |
| | Overall diameter | 6.20mm ±0.05 | |
| Physical properties un-aged Jacket (at 60°C) | | | |
| | Tensile strength | >12.5N/mm ² | |
| | Elongation | >100% | |
| | Heat shock test | 121 °C x 1 hour - no cracks | |
| Electrical characteristics | | | |
| Resistance | Conductor | <93 Ohm/Km | |
| | Insulation | >5000 M Ohm/Km | |
| Capacitance | Core to core | 50 pF/m nominal | |
| Impedance | | 110 Ohms ±20% | |
| Test voltage | | 1000 Vdc x 1 minute OK | |

green series

Characteristics by stock code

| Stock code | Overall diameter mm | Jacket thickness mm | Weight Kg/km | Construction and lay up |
|-------------|---------------------|---------------------|--------------|---|
| 268-401-050 | 3.90 | 0.50 | 50 | 1 pair, foil screened |
| 268-402-050 | 6.20 | 1.50 | 70 | 1 pair, lapped screen |
| 268-412-050 | 7.50 | 1.50 | 68 | Cotton fillers +2 pairs, 100mm lay |
| 268-414-050 | 9.20 | 1.00 | 105 | Cotton fillers + 4 pairs, 100mm lay |
| 268-418-050 | 12.20 | 1.20 | 175 | Cotton fillers + 1 pair, 1st layer 7 pairs, 140mm lay |
| 268-416-050 | 16.30 | 1.50 | 310 | Cotton fillers, 1st layer 5 pairs, 2nd layer 11 pairs, 100/200mm lay |
| 268-424-050 | 20.50 | 1.50 | 480 | Cotton fillers+ 2 pairs, 1st layer 8 pairs, 2nd layer 14 pairs, 160/230mm lay |

- Maximum reel length 500 metres

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