

5 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

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
Capacitance	Insulation	M Ohm/Km	>5000
	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	Foam skin polyolefin
	Average thickness	0.20mm
	Diameter	1.40mm ±0.10
	Colour coding	Red/black
	Cabling	Type
	Lay length	~25mm
	Screen	Type
	Drain wire	7 x 0.20mm (0.22mm ²) AWG 24/7
	Jacket	Material
	Average thickness	0.50mm
	Overall diameter	3.90mm ±0.15
	Bend radius	10 x overall diameter

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	Foam skin polyolefin
	Average thickness	0.45mm
	Diameter	1.40mm ±0.10
	Colour coding	Red/blue
	Cabling	Type
	Lay length	~50mm
	Screen	Type
	Separator	Polyester
	Jacket	Material
	Average thickness	1.50mm
	Overall diameter	6.20mm ±0.05
	Bend radius	10 x overall diameter

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

Characteristics

Stock code	Overall diameter mm	Jacket thickness mm	Weight Kg/km	Construction and lay up
268-401-050	3.90	0.50	16	1 pair, foil screened
268-402-050	6.20	1.50	70	1 pair, lapped screen
268-412-050	7.50	1.50	72	Cotton fillers +2 pairs, 100mm lay
268-414-050	9.20	1.00	97	Cotton fillers + 4 pairs, 100mm lay
268-418-050	12.20	1.20	165	Cotton fillers + 1 pair, 1st layer 7 pairs, 140mm lay
268-416-050	16.30	1.50	296	Cotton fillers, 1st layer 5 pairs, 2nd layer 11 pairs, 100/200mm lay
268-424-050	20.50	1.50	458	Cotton fillers+ 2 pairs, 1st layer 8 pairs, 2nd layer 14 pairs, 160/230mm lay

- Maximum reel length 500 metres

Description

Stock code	Description
268-401-050	Van Damme Green Series Digi Grade 1 Pair
268-402-050	Van Damme Green Series Digi Grade AES mic
268-412-050	Van Damme Green Series Digi Grade 2 Pair
268-414-050	Van Damme Green Series Digi Grade 4 Pair
268-418-050	Van Damme Green Series Digi Grade 8 Pair
268-416-050	Van Damme Green Series Digi Grade 16 Pair
268-424-050	Van Damme Green Series Digi Grade 24 Pair