



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



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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		



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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	

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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