

## 24 Ambicore Power and Signal Tour Grade hybrid multicore



The Van Damme Ambicore range is a hybrid multicore with an AES/EBU screened & jacketed pair combined with 1mm, 1.5mm or 2.5mm jacketed power cables. Very flexible and specified for dynamic use this cable range provides an elegant solution to the problem of integrated signal and power distribution.

### Applications

- Self powered speakers from studio monitors to public address systems
- Power and DMX512 for stand alone light fittings
- Interfacing 2 track AES/EBU recorders with existing systems
- Any application requiring balanced analogue or AES digital audio, RS422/485 or DMX512 control with a power feed

### Application notes

- AES/EBU twisted pair suitable for analogue balanced and digital audio
- Suitable for any 100 to 110 Ohm balanced data application such as RS422, RS485, DMX512 and timecode
- Power elements compliant with HO5VV-F harmonised standard
- Ultra pure oxygen free copper for outstanding sonic integrity

## AES/EBU twisted pair

Conductor	Material	Bare ultra pure oxygen free copper wire
	Stranding	7 x 0.20mm (0.22mm <sup>2</sup> ) 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 <sup>2</sup> ) AWG 24/7
Jacket	Material	PVC composite Pebble grey RAL 7032
	Average thickness	0.50mm
	Overall diameter	3.90mm ±0.15

## Physical properties unaged

Jacket (at 60°C)	Tensile strength	>12.5N/mm <sup>2</sup>
	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	

## Power elements

	268-710-000	268-715-000	268-725-000
Conductors	1.00mm <sup>2</sup> AWG 17 triad	1.50mm <sup>2</sup> AWG 15 triad	2.50mm <sup>2</sup> AWG 13 triad
Insulation	PVC Diameter 2.50mm ±0.10	PVC Diameter 3.00mm ±0.10	PVC Diameter 3.60mm ±0.10
Colour code	Brown, blue, green/yellow	Brown, blue, green/yellow	Brown, blue, green/yellow
Overall jacket	Flexible PVC composite black	Flexible PVC composite black	Flexible PVC composite black
Overall diameter	7.00mm ±0.15	8.30mm ±0.15	9.90mm ±0.15
Bend radius	10 x overall diameter	10 x overall diameter	10 x overall diameter

## Characteristics

Stock code	Overall diameter mm	Weight Kg/km	Construction and lay up	Reel lengths
268-710-000	14.20	234	Various elements laid up with plastic fillers,	500m
268-715-000	15.50	282	fleece tape separator over, pressure	500m
268-725-000	17.30	378	extruded overall jacket	500m

## Description

Stock code	Description
268-710-000	Van Damme Ambicore Power & Signal Multicore 10 Amp
268-715-000	Van Damme Ambicore Power & Signal Multicore 15 Amp
268-725-000	Van Damme Ambicore Power & Signal Multicore 20 Amp