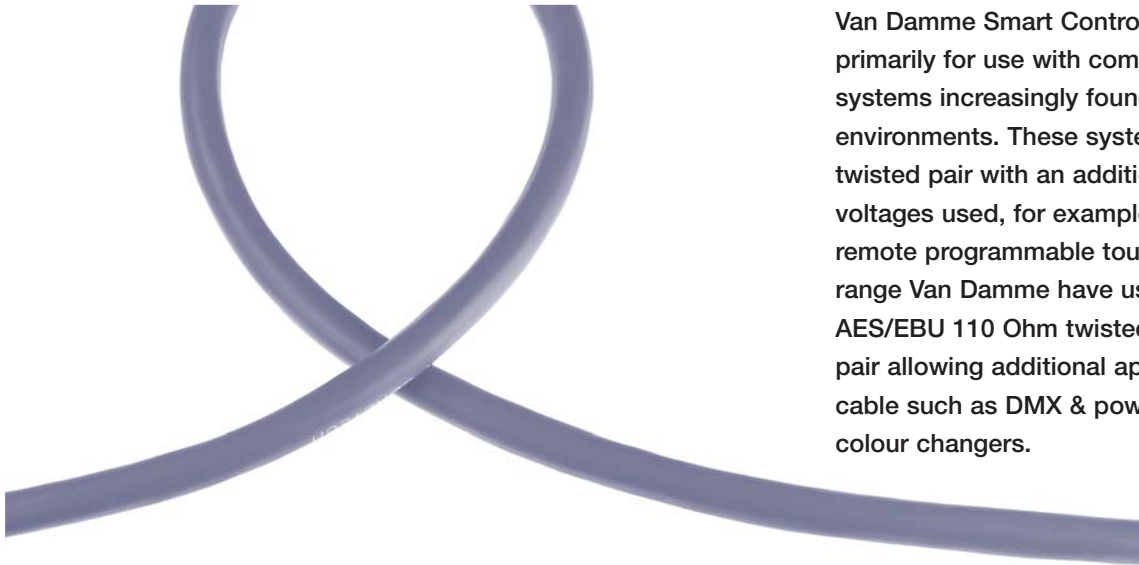




# cable

## Smart Control series



Van Damme Smart Control cables are primarily for use with common automation systems increasingly found in home and office environments. These systems run a screened twisted pair with an additional 2 wires for DC voltages used, for example, for powering remote programmable touch panels. For this range Van Damme have used a 22AWG AES/EBU 110 Ohm twisted pair as the data pair allowing additional applications for the cable such as DMX & power for lighting colour changers.

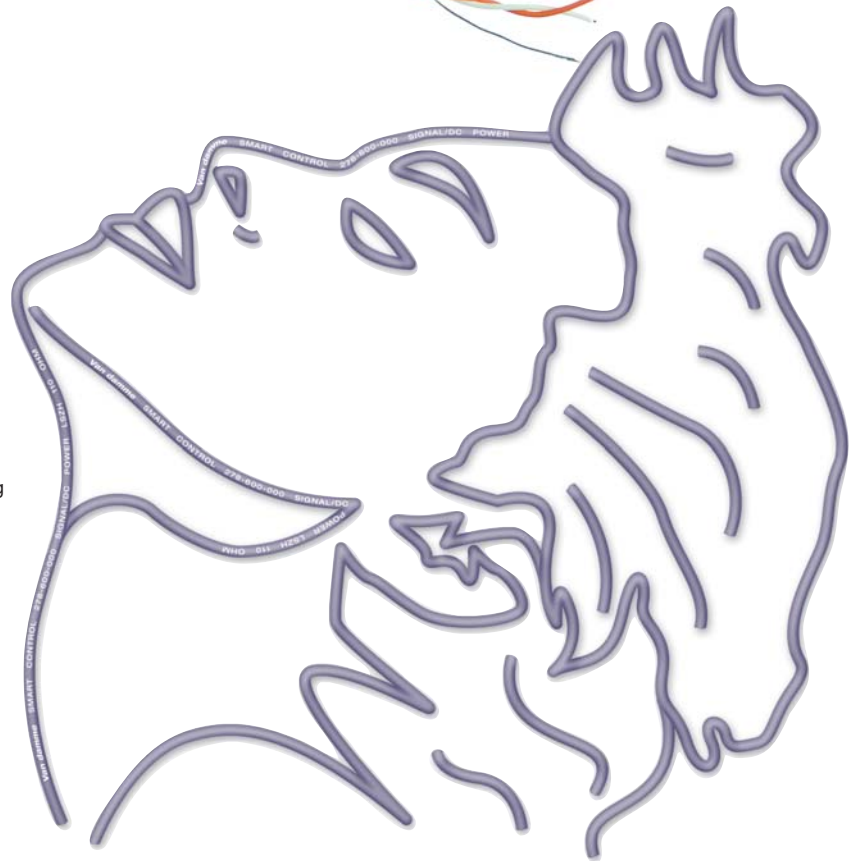


### Applications

- Control cabling for home automation systems
- DMX and power cables – e.g. for lighting colour changers

### Application notes

- 110 Ohm AES/EBU pair will also carry digital and analogue audio, DMX, timecode and midi signals
- Available with a PVC jacket for flexible use or a LSZH jacket for installation
- LSZH Jacket material specified as the thermoplastic polymer SHF-1; compliant with IEC 60092 Electrical Installations in ships pt. 359 – Sheathing materials for shipboard power and communication cables
- LSZH version fully tested and compliant with the following IEC standards (see glossary for full description)
- IEC 60332.1 Fire resistance of a single cable
- IEC 60754.1 Amount of Halogen Gas Emissions
- IEC 60754.2 Degree of acidity of released gases
- IEC 60134.2 Measurement of smoke density
- Ultra pure oxygen free copper for outstanding sonic integrity



# data/control series

<b>Twisted Pair specification</b>			
<b>Conductor</b>	Material	Bare ultra pure oxygen free copper wire	
	Stranding	7 x 0.25mm (0.34mm <sup>2</sup> ) AWG 22/7	
<b>Insulation</b>	Material	Foam skin polyolefin	
	Diameter	2.00mm ±0.10	
	Colour coding	Red & Black	
<b>Cabling</b>	Type	Twisted pair	
	Lay length	~25mm	
<b>Screen</b>	Type	24µm Aluminium/polyester foil >100% coverage	
	Drain wire	19 x 0.16 (0.14mm <sup>2</sup> ) AWG 24/19	
<b>Separator</b>	Material	Polyester tape	
<b>DC power conductors</b>			
<b>Conductor</b>	Material	Bare ultra pure oxygen free copper wire	
	Stranding	1.00mm <sup>2</sup> AWG 17	
<b>Insulation</b>	Material (PVC type)	PVC	
	Material (LSZH type)	SHF-1 LSZH thermoplastic polymer	
	Diameter	2.15mm ±0.10	
	Colour coding	Brown & Blue	
<b>Overall jacket</b>			
<b>Overall Jacket</b>	Material (PVC type)	Flexible PVC composite	
	Material (LSZH type)	SHF-1 LSZH thermoplastic polymer	
	Colour	Pearl Blackberry RAL 4012	
	Overall diameter	7.50mm	
<b>Bend radius</b>	15 x overall diameter		
<b>Physical properties unaged</b>			
<b>Jacket (at 60°C)</b>		PVC type	LSZH type
	Tensile strength	>12.5N/mm <sup>2</sup>	9N/mm <sup>2</sup>
	Elongation	>100%	> 125%
	Heat shock test	150 °C x 1 hour - no cracks	150°C x 1 hour / No cracks
<b>Electrical characteristics</b>			
<b>Resistance</b>	Conductor	Ohm/Km	<58.8
	Insulation	M Ohm/Km	>5000
<b>Capacitance</b>	Core to core	pF/m	40 nominal
	Core to shield		80 nominal
<b>Impedance (1-4 MHz)</b>	110 Ohms ±20%		
<b>Attenuation at 3MHz</b>	4.90 dB/100m		
<b>Test voltage</b>	500 Vdc x 1 minute OK		

- Maximum reel length 500 metres