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# VA12 Studio Connecting Cable



## Application

Studio connecting cables are primary used in closed circuit TV systems and for compact installations in studios and broadcasting vans. They are not suitable for continuously moved applications.

## Standards

## Flame resistance

Audio cable AC10 SP 24/7 nP: VDE 0472 part 804 class B and IEC 60332-1

## Construction

Element 1: Coaxial cat	ble 0.8/3.7 AF – 75 Ω					
Inner conductor	solid copper, bare, diameter 0.8 mm					
Insulation	oam-PE, diameter 3.7 mm					
Outer conductor	Al-PET-Al foil, under tinned copper braid, diameter 4.5 mm					
Sheath	PVC, diameter 5.9 mm blue, RAL 5015					
Element 2: 1 x Elemen	t from the multi audio cable AC10SP 24/7 nP					
Inner conductor	stranded copper wires, bare, diameter 0.60 mm (AWG24/7) (0.22 mm <sup>2</sup> )					
Insulation	Foam-skin-PE, diameter 1.40 mm					
Pair stranding	2 cores twisted to the pair					
Pair identification	a - core: white, b - core: blue (the colours above in regular intervals)					
Pair screen	one layer of spiraled bare copper wires + stranded bare copper drain wires, diameter 3.0 mm					
Sheath	PVC, diameter 3.8 mm					
Cable lay up						
Stranding	(0+3) 1 x Element 1 + 2 x Element 2 + 2 x filler diameter 9.7 mm					
Wrapping	1 x Polyester web, diameter 9.5 mm					
Sheath	DMC FLEX PVC, diameter 11.8 mm ± 0.5 mm black, RAL 9005					
Printing	DRAKA COMTEQ – VA12 + meter marking + batch number					

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## **Mechanical properties**

Audio cable AC10 SP 24/7 nP						
Minimum bending radius	without load	≥ 10 x D	( D= outer diameter )			
	with load	≥ 15 x D	( D= outer diameter )			
Temperature range	during operation	- 30° C to + 70°	С			

## **Electrical properties**

Coaxial cable 0.8/3.7 AF – 75 Ω			
Characteristic impedance		75 Ω ± 0.5 Ω	
Screening factor		> 100 dB	
Velocity ratio		78 %	
DC resistance	Inner conductor	35 Ω/km	
	Outer conductor	19 Ω/km	
Mutual capacitance		56 nF/km	
Audio cable AC10SP 24/7 nP			
DC resistance		≤ 175 Ω/km	
Insulation resistance	500 V	≥ 2000 MΩ*km	
Mutual capacitance	800 Hz	nom. 46 nF/km	
Velocity ratio		78 %	
Test voltage	DC. 1 min	1000 V	
Characteristic impedance	6 MHz	$110 \ \Omega \pm 10 \ \%$	

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# VA12

### Electrical data Coaxial cable 0.8/3.7 AF – 75 Ω

Attenuation (dB/100m)		Return loss (dB)	Return loss (dB)		
Frequency (MHz)		Frequency (MHz)			
1	0.9	50 - 300	> 23		
5	1.9	300 - 800	> 19		
10	2.7				
100	7.9				
300	13.3				
500	17.6				
800	22.8				
1000	25.5				
1500	31.3				

#### Audio cable AC10SP 24/7 nP

Frequency (MHz)	Attenuation (dB/100m)	Near end crosstalk (dB/300m)	
		neighboured pairs	unneighboured pairs
0.015	0.3	100	100
1.0	1.5	75	85
4.0	3.8	65	80
10.0	6.0	63	70
20.0	8.5	60	65

#### **Technical data**

Product code	Туре	Weight	Standard delivery length	Drum size	Copper content	Tensile force	Minimum bending radius N	Storage
		kg/km	m	*PWD		Ν	mm	
1002302 CT2875700	VA12	178	1000	1000/500/5 60	45	225	120	inside

\*PWD (plywood drum)

[PRODUCT CODE TABLE]

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