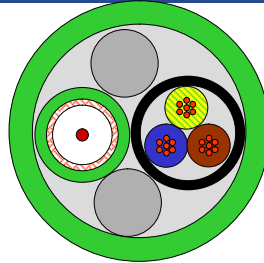




## 751-102/1

### Studio Connection 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

### Construction

#### Element 1: Coaxial cable

Inner conductor	solid copper wire, bare, diameter 0.6 mm
Insulation	PE, natural coloured, diameter 3.7 mm
Outer conductor	copper braid, bare, 16x6x0.14, optical coverage 83 %, diameter 4.4 mm
Sheath	PVC, diameter 5.9 mm green, RAL 6018
Printing	<b>DRAKA COMTEQ 0.6/3.7 – 75 Ω ± 1 %</b>

#### Element 2: Power cable

Inner conductor	stranded copper wires, bare, 0.75 mm <sup>2</sup> , diameter 1.14 mm
Insulation	PVC, diameter 2.3 mm
Identification	green/yellow, brown, blue
Stranding	3 cores stranded to the bundle, diameter 5.0 mm
Sheath	PVC, diameter 5.9 mm black, RAL9005

#### Cable lay up

Stranding	Coaxial cable and power cable are twisted to the bundle + PP-fillers
Sheath	DMC FLEX PVC, diameter 14.0 mm ± 0.2 mm green, RAL 6018
Printing	<b>DRAKA COMTEQ Studioschaltkabel 751-102/1</b>



## 751-102/1

### Electrical properties

at 20°C

#### Coaxial cable

Characteristic impedance		75 Ω ± 0.75 Ω
Screening factor		> 65 dB
Velocity ratio		67 %
DC resistance	Inner conductor	61 Ω/km
	Outer conductor	14 Ω/km
Insulation resistance	Inner conductor/Outer conductor	> 10 <sup>4</sup> MΩ*km
	Outer conductor/Environment	> 10 <sup>2</sup> MΩ*km
Mutual capacitance		68 pF/m
Test voltage	50 Hz U <sub>rms</sub>	4.2 kV

#### Power cable

DC resistance		< 26 Ω/km
Insulation resistance	Core/Environment	> 10 <sup>2</sup> MΩ*km
Operating voltage	AC U <sub>rms</sub>	230 V
	DC	300 V
Permissible operating current		< 6 A

### Electrical data

at 20°C

#### Coaxial cable 0.8/3.7 AF – 75 Ω

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
0.1	0.39	50 – 300	> 26
0.3	0.65		
0.6	0.9		
1	1.2		
3	1.9		
5	2.5		
10	3.5		
30	5.9		
100	10.9		
200	15.8		
300	19.5		
500	25.7		
800	33.3		

### Technical data

Product core	Type	Weight kg/km	Standard delivery length m	Drum size KTG	Copper content	Tensile force N	Minimum bending radius mm	Storage
1002298 CT2795401	751-102/1 DMC FLEX PVC	195	500	091	43.3	200	140	inside