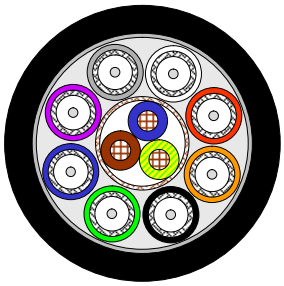
758-1001 (8x0.51/2.3Dz – 75 Ω + 3x1.5 mm²) PVC-Special
758-1001/2 (8x0.51/2.3Dz – 75 Ω + 3x1.5 mm²) PUR-Special

Studio Connecting Cable



Application

Studio connecting cables are primary used in closed circuit TV systems and for compact installations in studios and broadcasting vans.

Standards

Flame resistance

Construction

Element 1: Coax 0.51/2.3Dz (8x)		
Inner conductor	copper wire, bare, diameter 0.51 mm	
Insulation	Foam-PE, diameter 2.3 mm	
Outer conductor	copper braid, tinned, diameter 2.8 mm	
Screen	copper braid, tinned, diameter 3.2 mm	
Sheath	PVC, diameter 3.7 mm orange, black, green, blue, violet, grey, white, red	
Element 2: Screened power cable 3x1.5 mm²		
Inner conductor	stranded copper wires, bare, diameter 1.6 mm	
Insulation	PVC, diameter 3.0 mm	
Identification	1 x brown, 1x blue, 1 x yellow-green	
Twisting	3 cores, diameter 6.4 mm	
Insulation	2 x plastic foil, diameter 6.5 mm	
Screen	copper braid, bare, diameter 7.1 mm	
Insulation	1 x plastic foil, diameter 7.2 mm	
Cable lay up		
Elements	8x coax 0.51/2.3Dz acc. to A. + 1 x screened power cable acc. to B Core: 1 x screened power cable acc. to B layer: 8 x coax acc. to A	
Stranding	(1+8), diameter 14.6 mm	
Wrapping	1 x PETP-web (0.03 mm), diameter 14.80 mm	
Sheath	PVC-special, altern. PU-special, wall thickness 1.2 mm, diameter 17.2 mm ± 0.4 mm matt black, RAL 9005	
Printing	**DRAKA** 758-1001 (8X0.51/2.3DZ-75 Ω + 3x1.5 QMM) **+** batch no. **DRAKA** 758-1001/2 (8X0.51/2.3DZ-75 Ω + 3x1.5 QMM) **+** batch no.	for PVC-special for PUR-special

758-1001 (8x0.51/2.3Dz – 75 Ω + 3x1.5 mm²) PVC-Special
758-1001/2 (8x0.51/2.3Dz – 75 Ω + 3x1.5 mm²) PUR-Special

Mechanical properties

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° C

Electrical properties

at 20°C

Coaxial		
DC resistance	Inner conductor	≤ 115 Ω/km
Insulation resistance		≥ 10 GΩ*km
Mutual capacitance		60 nF/km
Characteristic impedance	at 1 MHz	75 Ω ± 3 Ω
Transfer impedance		5 mΩ/m
Screening factor		≥ 75 dB
Power cable 3x1.5 mm		
DC resistance		≤ 12.5 Ω/km
Insulation resistance		≥ 200 MΩ*km
Test voltage	50 Hz. 1min	500 V_{rms}
Operating voltage	AC	250 V_{rms}
DC resistance	braid	≤ 11.5 V_{rms} Ω/km

Recommendation:
Under voltage above 65 V the power cable screen has to be contacted to earth termination at the power source device.

Electrical data

at 20°C

Coaxial					
Attenuation (dB/100m)		**Crosstalk (dB/500m)**		**Return loss (dB)**	
Frequency (MHz)		**Frequency (MHz)**		**Frequency (MHz)**	
1	1.5	0.3 – 2.3	60	1 – 300	≥ 22
5	3.6	2.3 – 20	1000	300 – 800	≥ 18
10	4.7	20 – 800	90		
20	6.5				
30	7.9				
100	14.4				
200	20.6				
300	25.6				
500	33.6				
800	43.0				

758-1001 (8x0.51/2.3Dz – 75 Ω + 3x1.5 mm²) PVC-Special
758-1001/2 (8x0.51/2.3Dz – 75 Ω + 3x1.5 mm²) PUR-Special

Technical data

Product code	Type	Weight kg/km	Standard delivery length m	Drum size KTG	Copper content	Tensile force N	Minimum bending radius N mm	Storage
1002280 CT2739000	758-1001	360	250/500	081/091	210.8	950	175	inside
1002281 CT2739001	758-1001/2	350	250/500	081/091	210.8	950	175	inside