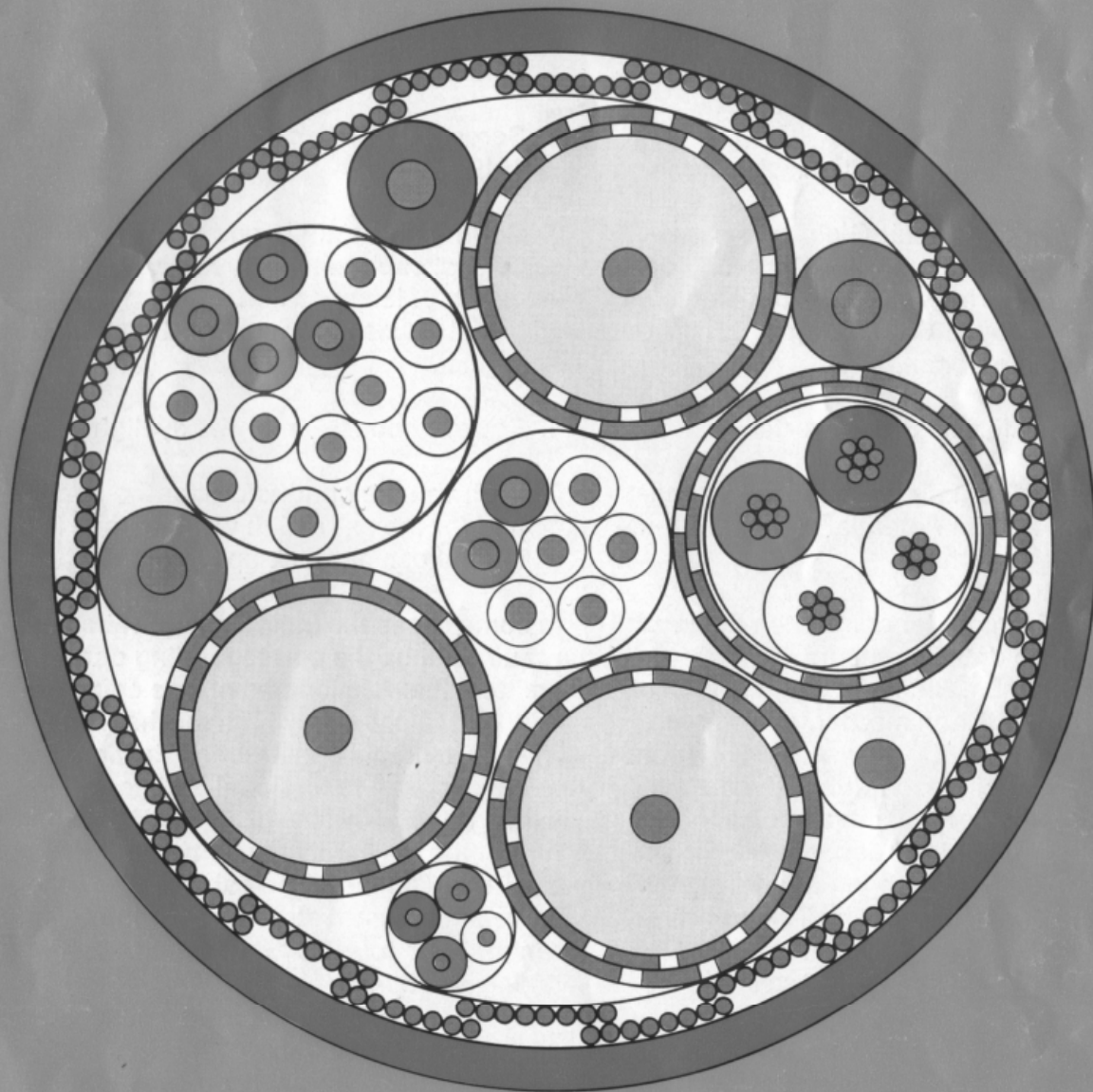


# Farbfernseh-Kamerakabel 753-5 Colour TV Camera Cable



FELTEN & GUILLEAUME  
KABELWERKE AG  
KÖLN-MÜLHEIM



**Colour TV Camera Cable  
Type 753-5  
List-No. 0937 5350 14**

**Construction:**

**Number of cores**

A coaxial cable	3 x 1
B pilot cable unscreened	1 x 14
C power cable screened	1 x 4
D pilot cable screened	1 x 7
E pilot cable unscreened	1 x 4
F pilot cable unscreened	4 x 1
total number of pilot and power cables:	33

**Construction of cable cores:**

**A coaxial cable:**

Inner conductor:	copper wire, bare	Ø 0.46 mm
Insulation:	PE	Ø 2.8 mm
Outer conductor:	copper wire braid, bare	
Insulation:	plastic foils	Ø 3.5 mm

**B pilot cable unscreened:**

Conductor:	copper wire, bare	Ø 0.3 mm
Insulation:	PE	Ø 0.7 mm
Twisting:	5 + 9 cores	
Insulation:	plastic foils	Ø 3.6 mm

**C power cable screened:**

Conductor:	stranded copper wire, bare	Ø 0.9 mm
Insulation:	PE	Ø 1.5 mm
Twisting:	4 cores	Ø 3.6 mm
Screen:	plastic foil	
	copper wire braid, bare	
Insulation:	plastic foils	Ø 4.4 mm

**D pilot cable screened:**

Conductor:	copper wire, bare	Ø 0.3 mm
Insulation:	PE	Ø 0.7 mm
Twisting:	1 + 6 cores	
Insulation:	tinned copper wire, Al-foil, plastic foil	Ø 2.6 mm

**E pilot cable unscreened:**

Conductor:	copper wire, bare	Ø 0.3 mm
Insulation:	PE	Ø 0.7 mm
Insulation:	plastic foil	Ø 1.7 mm

**F pilot cable unscreened:**

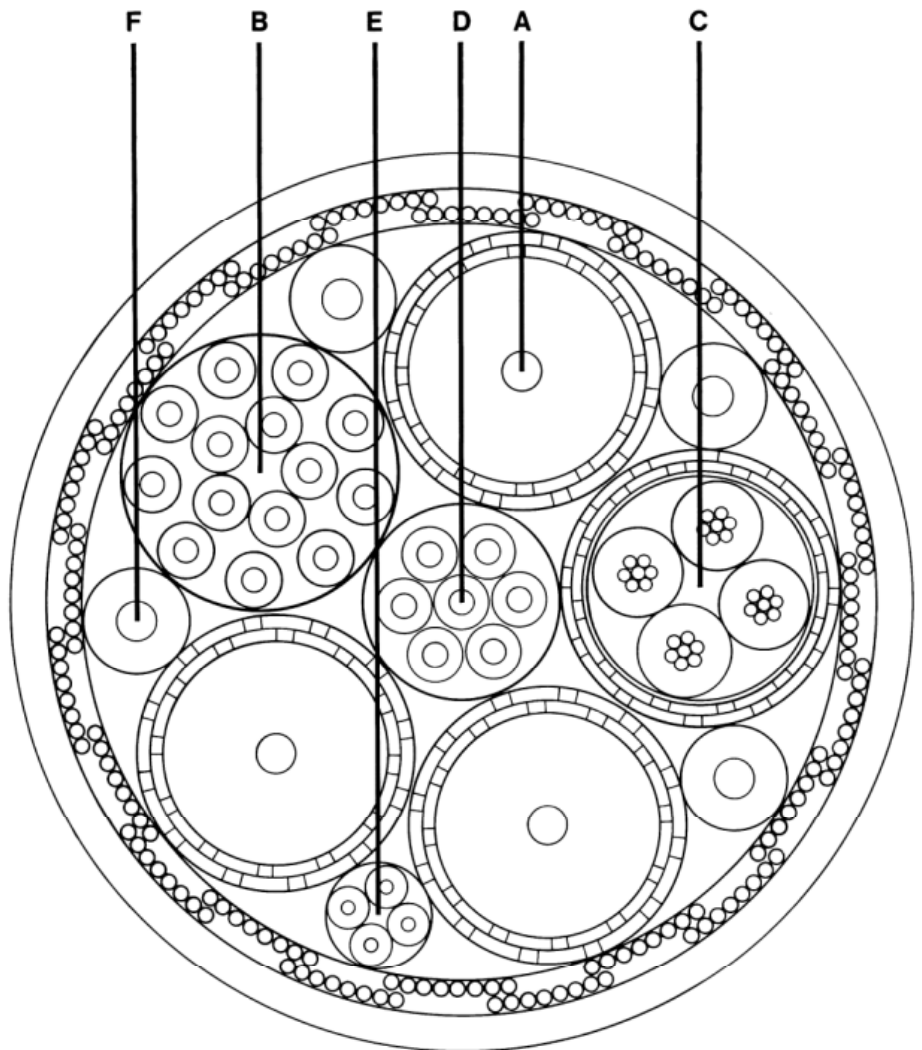
Conductor:	copper wire, bare	Ø 0.6 mm
Insulation:	PE	Ø 1.4 mm

**The above cables twisted**

Overall		
Screen :	tinned copper wire braid	
Outer jacket:	PVC, red	ca. Ø 13.0 mm

**Mechanical properties**

Smallest permissible bending radius for mobile use	160 mm
Free horizontal span length at a sag of at least 8 m	110 m
Longest permissible free vertical length	190 m
Net weight per 1000 metres	ca. 215 kgs



**Electrical properties**

**A coaxial cable**

DC resistance of inner conductor	110 Ω/km
Capacity	67 pF/m
Insulation resistance (inner conductor/outer conductor)	10 <sup>4</sup> MΩ · km
Permissible operating voltage for RF operation (peak value)	1.2 kV
Attenuation at 5 MHz	3.5 dB/100 m
Characteristic impedance at frequencies above 5 MHz	75 Ω ± 5%

**B pilot cable 14 cores**

DC resistance	250 Ω/km
Insulation resistance (core/core)	> 100 MΩ · km
Permissible operating DC voltage	400 V

**C power cable 4 cores**

DC resistance	40 Ω/km
Insulation resistance (core/core and screen)	> 100 MΩ · km
Permissible operating voltage	220 V <sub>eff</sub> , 50 Hz

**D pilot cable 7 cores**

DC resistance	250 Ω/km
Insulation resistance (core/core and screen)	> 100 MΩ · km
Permissible operating DC voltage	400 V

**E pilot cable 4 cores**

DC resistance	250 Ω/km
Insulation resistance (core/core)	> 100 MΩ · km
Permissible operating DC voltage	400 V

**F pilot core**

DC resistance	65 Ω/km
Insulation resistance	> 100 MΩ · km
Permissible operating DC voltage	1000 V