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Filotex®

Hand formable coaxial cables QUICKFORM®

Main characteristics

QUICKFORM® coaxial cables have electrical performances close to those of semi-rigid cables (very low attenuation very high screening effectiveness) but with easy and economical processing :

- no need for drawing of the assembly,
- manual shaping with or without pattern,
- no previous stabilisation - fast connection with all types of connectors intended for standard semi-rigid cables.

The special outer conductor allows to change the shape of the assembly ; nevertheless, they are intended for static use.

They are specially recommended for the wiring of mobile phone equipment : links on a PCB or between PCB1, internal wiring of antennas.

PRODUCT REFERENCES

FILOTEX ref. :

Reference standards :

- Generic : IEC 1196-1
- Sectional : CEI 1196-2

Packaging : Maximum 150 m coils

CONSTITUTION

QUICKFORM® 86

Inner conductor :
silver plated copper covered steel
0.51 mm

Dielectric :
PTFE : 1.60 mm

Outer Conductor :

tin soaked copper braid : 2.14 mm

QUICKFORM® 141

Inner conductor :
silver plated copper
or
silver plated copper covered steel
0.95 mm

Dielectric :
PTFE : 2.98 mm

Outer Conductor :

tin soaked copper braid : 3.52 mm

Product codes

Inner conductor	QUICKFORM® 86	QUICKFORM® 141
Silver plated copper	-	2PA372
Silver plated copper covered steel	296380	296379

Electrical characteristics

	QUICKFORM® 86	QUICKFORM® 141
Capacitance	97 pF/m	97 pF/m
Relative Velocity of Propagation	70%	70%
Characteristic Impedance	50 ± 2 Ω	50 ± 2 Ω
Attenuation in dB/m		
at 0.1 GHz	0.19	0.11
at 0.3 GHz	0.34	0.19
at 1 GHz	0.64	0.36
at 2 GHz	0.92	0.57
at 3 GHz	1.14	0.66
at 5 GHz	1.52	0.88
at 10 GHz	2.26	1.23
at 15 GHz	2.86	1.56
at 20 GHz	3.42	1.95
at 24 GHz	3.81	2.24
at 26 GHz	4	2.38
at 26.5 GHz	4.05	2.42
Minimum Return Loss (dB)		
up to 2 GHz	25	25
up to 8 GHz	20	20
up to 18 GHz	18	18

Thermal and mechanical characteristics

	QUICKFORM® 86	QUICKFORM® 141
Temperature rating	- 65 °C to 150 °C	- 65 °C to 150 °C
Minimum static bending radius	7 mm	11 mm

