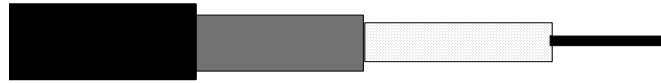


Cable design

4 3 2 1



1 Center conductor	silver plated copper clad steel (SPCCS)	Ø 0.51mm
2 Dielectric	PTFE	Ø 1.60 ± 0.05mm
3 Screen	tin soaked copper braid	Ø 2.11 ± 0.10mm
4 Jacket	FEP (thickness 0.2 ± 0.05 mm)	Ø 2.50 ± 0.10mm

Electrical parameters (20°C ambient temperature)

Characteristic impedance	50 ± 2 Ω
Frequency range	DC to 40 GHz
Return loss	≥ 25 dB (DC to 2 GHz) ≥ 20 dB (DC to 5 GHz) ≥ 18 dB (DC to 26 GHz)
Insulation resistance	> 1000 MΩ
Max. operation voltage	850 V _{rms}
Screening attenuation (before bending)	≥ 100 dB
Screening attenuation (after bending)	≥ 90 dB*

* Bending around a mandrel with a diameter of 40 mm, 35 cycles 0° – 360° - 0°.

Insertion loss	(@ 100 MHz)	≤ 0,22 dB / m
	(@ 300 MHz)	≤ 0,39 dB / m
	(@ 1000 MHz)	≤ 0,74 dB / m
	(@ 2000 MHz)	≤ 1,08 dB / m
	(@ 3000 MHz)	≤ 1,37 dB / m
	(@ 5000 MHz)	≤ 1,83 dB / m
	(@10000 MHz)	≤ 2,71 dB / m
	(@15000 MHz)	≤ 3,43 dB / m
	(@20000 MHz)	≤ 4,10 dB / m
(@26000 MHz)	≤ 4,80 dB / m	
Capacitance	97 pF / m	
Velocity ratio	70 %	

General data

Temperature range	-65 °C up to 150 °C
Weight	1,9 kg / 100 m
Min. Bending radius	static multiple 6 mm 20 mm (max. number of bendings: 70)

EDV-Nr.: 126366
Cable Group : 71

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A00	08-s526	30.10.08	J.K.	a	QR	Datum/Date	Name	<h1>Cable Specification Kabelspezifikation</h1>	
7	07-0514	16.07.07	SG	Bearb. Drawn		30.06.98	He		
6	Return loss	21.02.02	SG	Gepf. Checked		21.02.02	SG		
5	Anp. Hersteller	28.05.01	SG	Norm/STD					
4	Freigabe	30.03.99	He	Abt./Dept.		TCC			
3	Anp. Meßw.	17.03.99	He						
2	Anp. Hersteller	07.01.99	He						
<h2>Rosenberger</h2> <p>Hochfrequenztechnik_____</p>								<h1>RTK-FS085-SPCCS-FEP</h1>	
S Zustand Status	Änderung Revision	Datum Date	Name						Blatt/Sheet 1 1 Bl.
SPEC1 0397/PC						Ers. f.: Repl. f.		Ers. d.: Repl. by.	