



1 1/4"-A

STANDARD

Cable type : 5328 A

Reference : EC6-50-A

Cable with standard UV resistant PE jacket,
halogen free according to IEC 60754

CHARACTERISTICS

Construction

• Inner conductor		
Material	smooth copper tube	
Diameter (mm)		13.0
• Dielectric		
Material	gas-injected cellular polyethylene	
Diameter (mm)		33.5
• Outer conductor		
Material	corrugated copper tube	
Diameter (mm)		36.0
• Outer sheath		
Material	black polyethylene	
Thickness (mm)		1.5
Diameter (mm)		39.0

Mechanical characteristics

• Minimum bending radius	
a) single bending (cm)	20
b) 15 repeated bends (cm)	35
• Maximum pulling strength (daN)	
	240
• Recommended temperature range	
- Storage	-70 to +85 °C
- Installation	-40 to +60 °C
- Operation	-55 to +85 °C
• Max. length per hoisting grip (m)	
	70
• Maximum hanger spacing (m)	
	1.4
• Flat plate crush resistance (kg/mm)	
	2.4
• Bending moment (Nm)	
	30
• Approximate weight ^[4] (kg/km)	
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Electrical characteristics

• Characteristic impedance (Ω)	50 ± 1
• Nominal capacity (pF/m)	76
• Relative propagation velocity (%)	88
• Inductance (μ H/m)	0.189
• DC-resistance at 20°C	
- inner conductor (Ω /km)	0.95
- outer conductor (Ω /km)	0.69
• RF peak voltage (kV)	4.3
• RF peak power (kW)	184
• Cut-off-frequency (GHz)	3.7
• Insulation resistance (M Ω .km)	>> 5000
• Attenuation ^[1] and power rating	

Frequency (MHz)	Attenuation at 20°C ^[2] (dB/100m)	Mean power rating ^[3] (kW)
10	0.25	37.13
20	0.36	26.12
30	0.44	21.24
80	0.73	12.84
100	0.81	11.44
150	1.01	9.26
200	1.17	7.96
300	1.45	6.42
400	1.69	5.51
450	1.80	5.17
500	1.91	4.88
600	2.10	4.42
700	2.29	4.07
800	2.46	3.78
894	2.62	3.56
960	2.72	3.42
1000	2.79	3.34
1500	3.50	2.66
1700	3.76	2.48
1800	3.88	2.40
1880	3.98	2.34
2000	4.12	2.26
2170	4.32	2.15
2200	4.35	2.14
2300	4.47	2.08
2400	4.58	2.03
2500	4.69	1.98
2700	4.91	1.90
3000	5.22	1.78
3400	5.62	1.66
3600	5.81	1.60

[1] The attenuation can be approximated by the formula:

$$\alpha(f[\text{MHz}]) = A \cdot \sqrt{f[\text{MHz}]} + B \cdot f[\text{MHz}] \quad (\text{dB}/100\text{m})$$

A = 0.0783
B = 0.00031

[2] Nominal values

[3] Ambient temperature = 40°C; temperature of inner conductor = 100°C;
VSWR = 1.0; no solar loading

[4] Standard PE jacket / HLFR Jacket