

**50 Ohm - coax cable - giant**

- 50 Ohm characteristic impedance
- very flexible due to stranded inner conductor
- low-loss dielectric from gas injected Foam-PE
- very high screening efficiency due to a double shielding
- predestined for antenna signals in wireless microphone systems
- CPR class Eca acc. to EN50575

PVC**Eca**

Stage and theatre applications often require receiving antennas for wireless microphones to be connected with the corresponding receiver over extremely long distances. (Please observe the technical specifications of your wireless transmission system with respect to maximum transmission distance). This is compounded by enormous potential for interference generated by power cables, transformers, electronic lighting control systems or mobile telephones. GA27FLEX can cope with them all. The copper wire of the inner conductor has an extra-large diameter of 2.7 mm and is enclosed in a physically foamed dielectric medium to ensure reflection-free signal transmission at ultra-low attenuation. A dual shield of Cu foil and bare braided copper provides reliable screening for the conductor from high and low-frequency electromagnetic interference. Despite the cable design featuring an extra-high-diameter inner conductor and Cu foil, this low-loss 50- Ohm coaxial cable retains good flexibility.

construction

inner conductor	bare stranded copper wire, 7 x 0.91 mm (AWG 10/7)
insulation	Foam-Skin PE, gas injected, Ø 7.2 mm
shielding	Cu PET foil and bare copper braid (coverage 82%)
outer jacket	PVC
overall diameter	10.3 mm

mechanics

min. bending radius	70 mm
working temperature	-20°C / +70°C

electric

characteristic impedance	50 Ω
capacitance	78 pF/m
velocity of propagation	85 %
DC resistance	
inner conductor	3.8 Ω/km
outer conductor	6.8 Ω/km
screening attenuation @ 1 GHz	> 90 dB
attenuation [dB/100m]	
10 MHz	1.8
100 MHz	4.8
500 MHz	11.0
1000 MHz	16.1
2000 MHz	24.2
3000 MHz	31.2

order code	outer jacket	working temperature	colour	weight kg	standard lengths m
GA27FLEX	PVC	-20°C / +70°C	black	0.16	50 / 100 / 200 / 300 / 500

technical specifications are subject to change