



50 Ohm - coax cable - giant

PVC - Eca

- 50 Ohm characteristic impedance
- 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



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 ohms coaxial cable retains good flexibility.

design

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

electric

characteristic impedance	50 Ω
velocity of propagation	85 %
DC resistance	
outer conductor	6.8 Ω/km
screening attenuation @ 1 GHz	> 90 dB
nom. attenuation [dB/100m]	
10 MHz	1.8
100 MHz	4.8
400 MHz	9.7
500 MHz	11.0
600MHz	12.1
1000 MHz	16.1
2000 MHz	24.2
3000 MHz	31.2

mechanical & thermal characteristics

min. bending radius	
installed	5x overall diameter
mobile use	10x overall diameter
temperature range	
mobile use	-30°C / +70°C
installed	-30°C / +70°C
flame retardancy	flame retardant acc. to IEC 60332-1-2

order code	outer jacket	working temperature	cable color	weight kg/m	standard lengths m
GA27FLEX	PVC	-30°C / +70°C	black	0.14	50 / 100 / 200 / 300 / 500

technical specifications are subject to change