



Flexible cable 6/50 D (ECO230)



P/N: ST291 326

490

APPLICATION NOTE

Designed by Radiall, ECO230 is an alternative solution to 5 mm dia. cables when higher power level is required:

- **Advantageous in term of electrical performance:** its optimized construction allows better attenuation and screening effectiveness than RG cables.
- **Environmental advantages:** halogen and sulphur free, this cable does not emit any toxic substance when submitted to fire. The flame retardant jacket allows ECO230 to meet fire resistance standards.
- **Advantageous in term of price:** ECO230 design has integrated all Radiall knowledge to reach the best performance with a very competitive price.

ECO230 is UL style 1375 approved.

CONSTRUCTION / DIMENSIONS

	Material	mm	Inches
Center conductor	OFC ⁽¹⁾ copper	1.46	0.057
Dielectric	Foam PE ⁽²⁾	4.07	0.160
Inner shield	Al ⁽³⁾ foil	4.27	0.168
Outer shield	TC ⁽⁴⁾ braid	4.75	0.187
Jacket	Black LSZH ⁽⁵⁾ PE	5.90	0.232

ELECTRICAL CHARACTERISTICS

Characteristic impedance	50Ω ± 2Ω	
Operating frequency range	DC - 4 GHz	
Shielding effectiveness	90 dB (DC - 3 GHz)	
Voltage withstanding	3 000 V rms	
Peak power	3.3 kW	
Capacitance	84 pF / m	25.5 pF / ft
Velocity of propagation	79 % (4.2 ns / m)	