

LINE OF PRODUCTS

KX 6A
M17/29-RG059

FLAMEX KX6
FLAMEX RG59

To: MIL C 17 US specification
NF C93550 French specification

Main characteristics:

- **Operating temperature:**
 - 40 to +85°C (PVC outer jacket)
 - 40 to +105°C (FLAMEX OHAL outer jacket)
- **Continuous working voltage:**
 - 1700 V
- **Maximum operating frequency:**
 - 1 GHz → M17/29-RG059
→ FLAMEX RG59
 - 3 GHz → KX 6A
→ FLAMEX KX6

Good resistance to flame NFC 32070/C2 & CEI 332-1&2

Application

High frequency connections.

The FLAMEX coaxial cables, strictly halogen free, are mainly designed for applications where the protection of people and equipments have to be improved (non toxic and non corrosive cables).

Recommended connectors

N - BNC - etc.

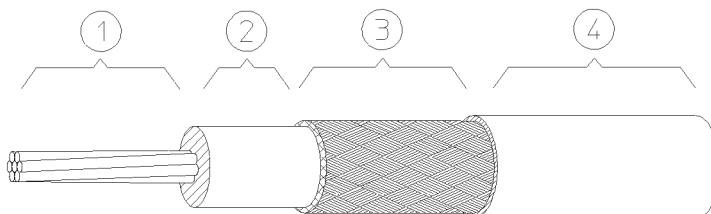
CONSTRUCTION

1- CONDUCTOR:
Solid or stranded
Bare Copper or Copper clad
steel

2- DIELECTRIC:
Solid Polyethylene

3- SCREEN:
Single braid
Bare copper

4- JACKET:
T°=85°C PVC
T°=105°C FLAMEX OHAL

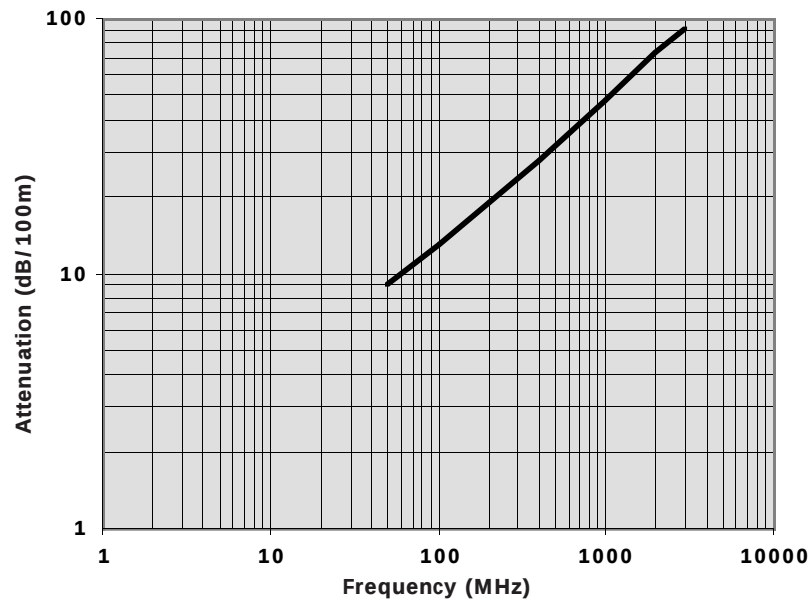


COAXIAL 75 Ω - 85°C Polyethylene - OD 6.10 mm

SPECIFICATIONS	NF C93550	MIL C 17	Filotex®	
DESIGNATION	KX 6A	M17/29-RG059	FLAMEX KX6	FLAMEX RG59
Previous reference		RG 59 BU		
CONSTRUCTION DETAILS & WEIGHT				
CONDUCTOR Diameter (mm)	7 x 0.20 mm B.C. 0.60	1 x 0.57 mm C.C.S. 0.57	7 x 0.20 mm C.C.S. 0.60	1 x 0.57 mm C.C.S. 0.57
DIELECTRIC Diameter (mm)	Solid PE 3.70 $\pm$ 0.12	Solid PE 3.71 $\pm$ 0.10	Solid PE 3.70 $\pm$ 0.12	Solid PE 3.71 $\pm$ 0.10
TAPE	no	no	yes	yes
BRAID	B.C.	B.C.	B.C.	B.C.
TAPE	no	no	yes	yes
JACKET Diameter (mm)	PVC 6.10 $\pm$ 0.15	PVC 6.15 $\pm$ 0.10	FLAMEX 6.10 $\pm$ 0.15	FLAMEX 6.15 $\pm$ 0.10
Nominal weight (g/m)	53	50	57	57
ELECTRICAL PROPERTIES				
Capacitance (pF/m)	67 $\pm$ 3	<72.2	67 $\pm$ 3	<72.2
Relative velocity of propagation (%)	65.9	65.9	65.9	65.9
Characteristic impedance at 200 MHz (Ω)	75 $\pm$ 3	75 $\pm$ 3	75 $\pm$ 3	75 $\pm$ 3
Attenuation	See diagram			
Maximum power	See diagram			

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Nominal attenuation



Short formula of attenuation calculations

(to be applied above 50 MHz frequency)

$$\alpha(\text{dB}/100\text{m}) = 0.534 \sqrt{F(\text{MHz})} + 0.005 F(\text{MHz})$$

Maximum power

