



Filotex[®]

M17/172-00001 (RG 316 U)
M17/138-00001 (RG 188 A/U)
COAXIAL 50 Ω
200°C/230°C PTFE

PRODUCT REFERENCE

FILOTEX Ref:

RG 316 U (ET 085790)
RG 188 A/U (ET 087245)

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.17
 Silver plated copper clad steel
 $\varnothing = 0.51 \text{ mm}$

2- DIELECTRIC:

Extruded PTFE
 $\varnothing = 1.52 \text{ mm} \pm 0.08$

3- SCREEN:

Single braid
 Silver plated copper

4- JACKET:

$T^\circ = 200^\circ\text{C}$ FEP (RG316U)
 $T^\circ = 230^\circ\text{C}$ PFA (RG188AU)
 $\varnothing = 2.49 \text{ mm} \pm 0.10$

To: MIL C17

Main characteristics

- ☐ Operating temperature: - 90 to +200°C (FEP JACKET)
 - 90 to + 230°C (PFA JACKET)
- ☐ Maximal operating frequency: 3 GHz
- ☐ Continuous working voltage: 900 volts
- ☐ Good resistance to aircraft fluids.
- ☐ Good resistance to flame NFC 32070/C1 & C2 (CEI 332 -1)
- ☐ Capacitance: < 105 pF/m
- ☐ Relative velocity of propagation: 69.5 %
- ☐ Characteristic impedance at 200 MHz: $50 \pm 2 \Omega$
- ☐ Attenuation
 - at 200 MHz : 40 dB/100 m
 - at 400 MHz : 55 dB/100 m
 - at 3000 MHz : 160 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 2 kV
- ☐ Nominal weight: 17 kg/km

Application

High frequency connections operating at high temperature.

By their small dimensions, they are mainly designed for miniaturized connections, operating at high or low temperature.

