

LINE OF PRODUCTS

M17/94-RG179
M17/136-00001

CONSTRUCTION

1- CONDUCTOR:
Stranded Silver plated copper
clad steel

2- DIELECTRIC:
Extruded PTFE

3- SCREEN:
Single braid
Silver plated copper

4- JACKET:
T° = 200°C FEP
T° = 230°C PFA

To MIL C 17 US specification

Main characteristics:

- **Operating temperature:**
 - 90 to +200°C (FEP outer jacket)
 - 90 to +230°C (PFA outer jacket)
- **Continuous working voltage:**
 - 900 V
- **Maximal operating frequency:**
 - 3 GHz

Good resistance to aircraft fluids

Good resistance to flame NFC 32070/C1 & C2 (CEI 332-1).

Easy solder connection

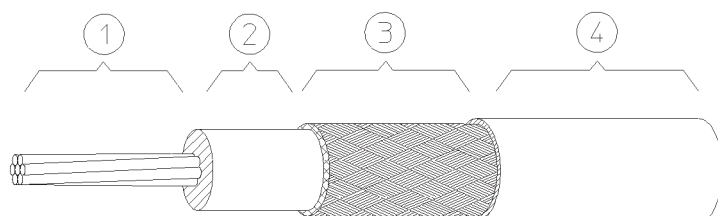
Application

High frequency connections operating at high temperature.

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

Recommended connectors

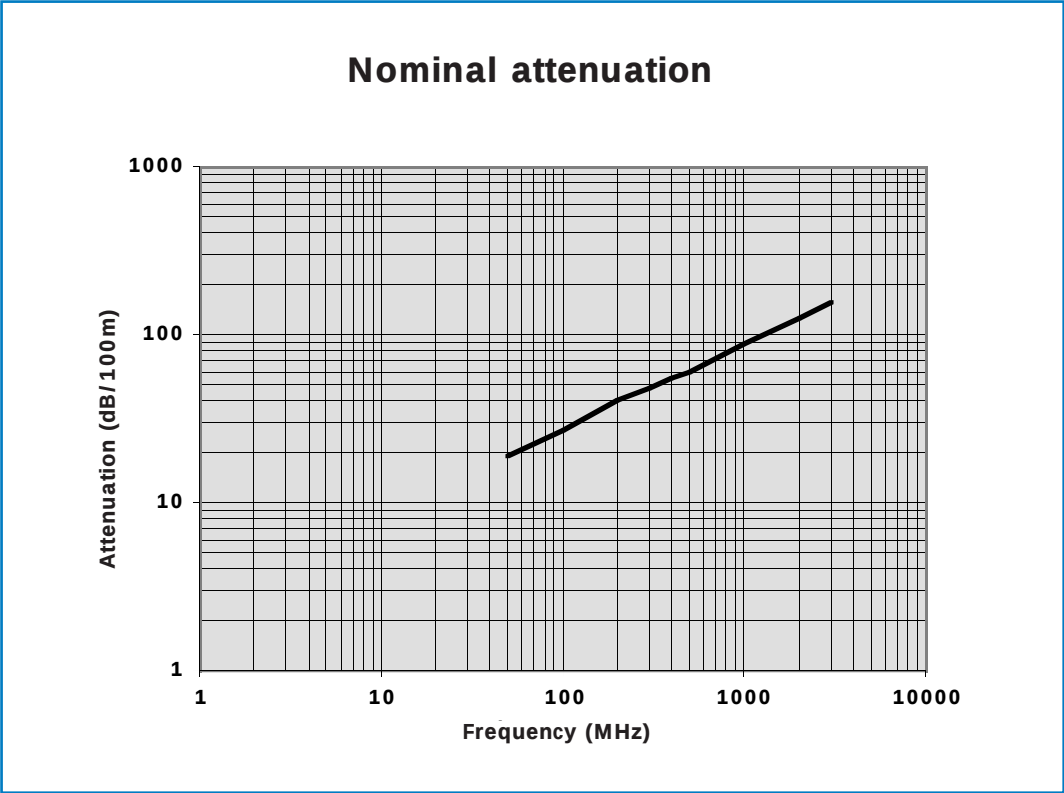
SMB - SMC - N - etc.



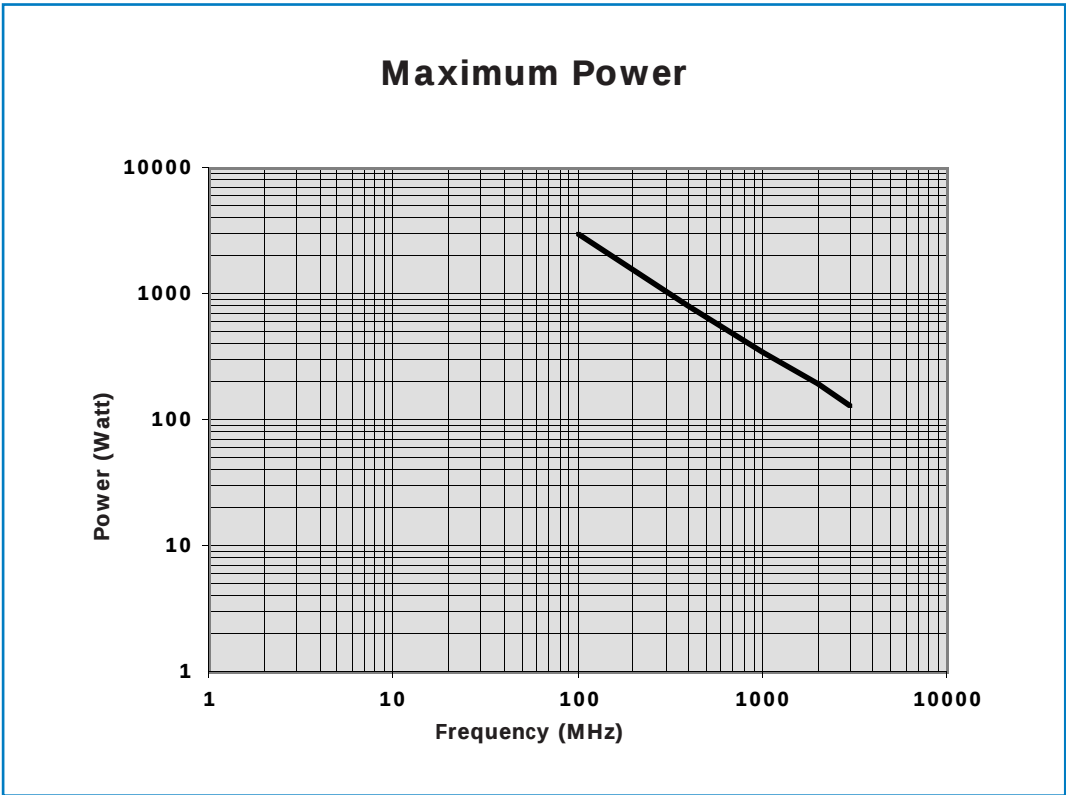
COAXIAL 75 Ω - 200°C/230°C PTFE - OD 2.50 mm

SPECIFICATIONS	MIL C 17	
DESIGNATION	M17/94-RG179	M17/136-00001
Previous reference	RG 179 BU	RG 187 AU
CONSTRUCTION DETAILS & WEIGHT		
CONDUCTOR Diameter (mm)	7 x 0.10 mm S.P.C.C.S. 0.30	7 x 0.10 mm S.P.C.C.S. 0.30
DIELECTRIC Diameter (mm)	Extruded PTFE 1.60 ± 0.08	Extruded PTFE 1.60 ± 0.08
BRAID	S.P.C.	S.P.C.
JACKET Diameter (mm)	FEP 2.54 ± 0.13	PFA 2.54 ± 0.13
Nominal weight (g/m)	16.9	16.9
ELECTRICAL PROPERTIES		
Capacitance (pF/m)	<75.5	<72.2
Relative velocity of propagation (%)	69.5	69.5
Characteristic impedance at 200 MHz (Ω)	75 ± 3	75 ± 3
Attenuation	See diagram	
Maximum power	See diagram	

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Short formula of attenuation calculations
(to be applied above 50 MHz frequency)
$$\alpha(\text{dB}/100\text{m}) = 2.69 \sqrt{F(\text{MHz})} + 0.003 F(\text{MHz})$$



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Similar cables (Filotex® specifications)

- Double braids coaxial cables (higher shielding effectiveness)
 - RG 179 BU DT
- Triaxial cables
 - Study 69711
- Reduced overall diameter coaxial cables
 - Study 96911
 - Study 124630 (Study 96911 DT)
 - Study 123775
 - Study 123776 (Triaxial)
- Multicoaxial cables