

RG188, 50 Ohm, 3 GHz, 200°C, Ø2.6 mm, FEP jacket

RG_188_A/U-60

Properties

- Alternative to RG_188
- Excellent RF performance for precision applications
- Suitable for use in applications up to 3 GHz
- UL qualified



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Strand-07	0.54 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94%	2 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9010 - wh	2.6 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 3 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.86 ns/m
Screening effectiveness	41 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	246.05 Ω/km
Operating Voltage (at sea level)	≤ 1.45 kVrms
Voltage Rating UL	30 V
Test voltage (50 Hz/1 min)	≤ 1.7 kVrms

Mechanical data	
Weight	approx. 17 g/m
Static bending radius	≥ 15 mm
Repeated bending radius	26 mm
Dynamic bending radius	< 39 mm

RG188, 50 Ohm, 3 GHz, 200°C, Ø2.6 mm, FEP jacket

RG_188_A/U-60

Environmental data	
Operation temperature	-65 °C ... 200 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-3
Fire characteristics	contains halogene

Suitable connectors	
Cable group	U2

Ordering information		
Item number	Item description	Available as assembly only
22511839	RG_188_A/U-60	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.7501	b coefficient typical =	0.0884
fmax =	3	P at 1 GHz =	180
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.353	0.108	402
0.40	0.510	0.155	285
0.60	0.634	0.193	232
0.80	0.742	0.226	201
1.00	0.839	0.256	180
1.20	0.928	0.283	164
1.40	1.011	0.308	152
1.60	1.090	0.332	142
1.80	1.165	0.355	134
2.00	1.238	0.377	127
3.00	1.564	0.477	104

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P969 / Date of publication: 08.08.2024 / uncontrolled copy