

Coaxial Cable
RG_316_/U

苏州启道 — 中国区优势专业供应商
sales@qiidao.com

Description

PTFE - 50 Ohm - single screen



Technical Data

Construction

	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, 95%	2 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	2.5 mm +/- 0.1

Print: HUBER+SUHNER RG 316 U 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	3 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.86 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 38 dB (up to 1 GHz)
Max. operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.6 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic
	15 mm
	25 mm
	37.5 mm

Environmental Data

Temperature range	-65 °C... +165 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-3, compliant
2011/65/EU (RoHS)	

Additional Information

Ordering Information

Order as	RG_316_/U
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Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	U2 2 mm / 50 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p / f^{0.5})$]

Coefficients:

a = 0.7727

b = 0.0972

f_{max} = 3

P at 1GHz = 135

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,15	0,31	0,096	349
0,3	0,45	0,138	246
0,45	0,56	0,171	201
0,6	0,66	0,200	174
0,75	0,74	0,226	156
0,9	0,82	0,250	142
1,05	0,89	0,272	132
1,2	0,96	0,294	123
1,35	1,03	0,314	116
1,5	1,09	0,333	110
1,65	1,15	0,351	105
1,8	1,21	0,369	101
1,95	1,27	0,387	97
2,1	1,32	0,403	93
2,25	1,38	0,420	90
2,4	1,43	0,436	87
2,55	1,48	0,452	85
2,7	1,53	0,467	82
2,85	1,58	0,482	80
3,0	1,63	0,497	78