Data Sheet

Coaxial Cable
RG_302_/U

Description

PTFE - 75 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.63 mm
Dielectric	PTFE (Polytetrafluoroethylene)		3.7 mm
Outer conductor	Copper, Silver plated	Braid, 91%	4.35 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	5.1 mm +/- 0.1

Print: HUBER+SUHNER RG 302 /U 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	63 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Max. operating voltage	≤ 1.75 kV_{rms} (at sea level)
Test voltage	3.5 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		5.4 kg/100 m
Min. bending radius	static	30 mm
	repeated (for ≤ 50 bendings)	50 mm

Environmental Data

Temperature range	-65 °C... +165 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, ,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	RG_302_/U

Remarks

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

Suitable Connectors

Cable group	U99 Customer Specific

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a =	0.3094	b =	0.0264	f_{max} =	1	P at 1GHz =	385

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.1	0.1	0.031	1217
0.15	0.12	0.038	994
0.2	0.14	0.044	861
0.25	0.16	0.049	770
0.3	0.18	0.054	703
0.35	0.19	0.059	651
0.4	0.21	0.063	609
0.45	0.22	0.067	574
0.5	0.23	0.071	544
0.55	0.24	0.074	519
0.6	0.26	0.078	497
0.65	0.27	0.081	478
0.7	0.28	0.085	460
0.75	0.29	0.088	445
0.8	0.3	0.091	430
0.85	0.31	0.094	418
0.9	0.32	0.097	406
0.95	0.33	0.100	395
1.0	0.34	0.102	385