

Coaxial Cable S_05163-02

Description

PE Foam - 75 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1 mm
Dielectric	SPE (Foamed Polyethylene)		4.57 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	4.65 mm
Outer conductor	Copper, Tin plated	Braid, 66 %	5.4 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	6.9 mm +/- 0.15

Print: HUBER+SUHNER S 05163-02 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	2 GHz
Capacitance	54 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 80 dB (up to 2 GHz)
Max. operating voltage	≤ 0.5 kV _{rms} (at sea level)
Test voltage	1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.3 kg/100 m
Min. bending radius	static 35 mm dynamic 105 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	+20 °C... +60 °C
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as S_05163-02

Remarks

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

Suitable Connectors

Cable group X17 4 mm / 75 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 = 0.2164

b = 0.0413

f_{max} = 2

P at 1GHz = 202

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	0,07	0,022	639
0,2	0,11	0,032	452
0,3	0,13	0,040	369
0,4	0,15	0,047	319
0,5	0,17	0,053	286
0,6	0,19	0,059	261
0,7	0,21	0,064	241
0,8	0,23	0,069	226
0,9	0,24	0,074	213
1,0	0,26	0,079	202
1,1	0,27	0,083	193
1,2	0,29	0,087	184
1,3	0,3	0,092	177
1,4	0,31	0,096	171
1,5	0,33	0,100	165
1,6	0,34	0,104	160
1,7	0,35	0,107	155
1,8	0,36	0,111	151
1,9	0,38	0,115	147
2,0	0,39	0,118	143