

Coaxial Cable K_02253_D-02

Description

PTFE - 75 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 95%	2 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	2.5 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	3 mm +/- 0.1

Print: HUBER+SUHNER K 02253 D-02 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	2 GHz
Capacitance	63 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 81 dB (up to 2 GHz)
Max. operating voltage	≤ 0.85 kV _{rms} (at sea level)
Test voltage	1.7 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.3 kg/100 m
Min. bending radius	static 18 mm
	repeated (for ≤ 50 bendings) 30 mm
	dynamic 45 mm

Environmental Data

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

Additional Information

Ordering Information

Order as K_02253_D-02

Remarks

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

Suitable Connectors

Cable group R8 2 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 = 0.9109

b = 0.0308

f_{max} = 2

P at 1GHz = 120

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	0,29	0,089	379
0,2	0,41	0,126	268
0,3	0,51	0,155	219
0,4	0,59	0,179	190
0,5	0,66	0,201	170
0,6	0,72	0,221	155
0,7	0,78	0,239	143
0,8	0,84	0,256	134
0,9	0,89	0,272	126
1,0	0,94	0,287	120
1,1	0,99	0,302	114
1,2	1,03	0,315	110
1,3	1,08	0,329	105
1,4	1,12	0,342	101
1,5	1,16	0,354	98
1,6	1,2	0,366	95
1,7	1,24	0,378	92
1,8	1,28	0,389	89
1,9	1,31	0,401	87
2,0	1,35	0,411	85