Data Sheet

Coaxial Cable
RADOX_RF_179

Description

PE Foam cross-linked - 75 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.305 mm
Dielectric	SPEX (Crosslink Foam PE)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94%	2 mm
Jacket	RADOX EM104	RAL 9005 - bk	2.8 mm +/- 0.1

Print: HUBER+SUHNER RADOX_RF_179 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	3 GHz
Capacitance	63 pF/m
Velocity of signal propagation	69.7 %
Signal delay	4.78 ns/m
Insulation resistance	≥ 1 x 10^7 MΩm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 1 kV_{rms} (at sea level)
Test voltage	2 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.3 kg/100 m
Min. bending radius	static	5 mm
	repeated (for ≤ 50 bendings)	25 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	EN 60332-1-2, EN 50305, 9.1.2, IEC 60332-3-24
Smoke density	EN 61034-2
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

EN 45545 compliant
Hazard level for indoor cables: HL3

Ordering Information

Order as	RADOX_RF_179

Remarks

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

Suitable Connectors

Cable group	U5 2 mm / 75 Ohm

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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 =	0.8288	b =	0.0725	f_{max} =	3	P at 1GHz =	45

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0.15	0.33	0.101	116
0.3	0.48	0.145	82
0.45	0.59	0.179	67
0.6	0.69	0.209	58
0.75	0.77	0.235	52
0.9	0.85	0.260	47
1.05	0.93	0.282	44
1.2	0.99	0.303	41
1.35	1.06	0.323	39
1.5	1.12	0.343	37
1.65	1.18	0.361	35
1.8	1.24	0.379	34
1.95	1.3	0.396	32
2.1	1.35	0.412	31
2.25	1.41	0.429	30
2.4	1.46	0.444	29
2.55	1.51	0.460	28
2.7	1.56	0.475	27
2.85	1.61	0.489	27
3.0	1.65	0.504	26