

Coaxial Cable RADOX_RF_214

Description

PE cross-linked - 50 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.25 mm
Dielectric	PEX (Polyethylene cross-linked)		7.28 mm
Outer conductor	Copper, Silver plated	Braid, 93%	8 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	8.6 mm
Jacket	RADOX EM104	RAL 9005 - bk	11.1 mm +/- 0.1

Print: HUBER+SUHNER RADOX_RF_214 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	101.4 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 81 dB (up to 6 GHz)
Max. operating voltage	≤ 5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	20.3 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic
	50 mm 110 mm 170 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	EN 60332-1-2, IEC 60332-3-25,
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_214

Remarks

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

Suitable Connectors

Cable group U43 7 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 = 0.2203

b = 0.0874

$f_{max} = 6$

P at 1GHz = 560

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
0,3	0,15	0,045	1022
0,6	0,22	0,068	723
0,9	0,29	0,088	590
1,2	0,35	0,106	511
1,5	0,4	0,122	457
1,8	0,45	0,138	417
2,1	0,5	0,153	386
2,4	0,55	0,168	361
2,7	0,6	0,182	341
3,0	0,64	0,196	323
3,3	0,69	0,210	308
3,6	0,73	0,223	295
3,9	0,78	0,236	284
4,2	0,82	0,249	273
4,5	0,86	0,262	264
4,8	0,9	0,275	256
5,1	0,94	0,287	248
5,4	0,98	0,300	241
5,7	1,02	0,312	235
6,0	1,06	0,324	229