

Coaxial Cable RADOX_RF_59

Description

PE cross-linked - 75 Ohm - single screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-07	0.66 mm
Dielectric	PEX (Polyethylene cross-linked)		3.83 mm
Outer conductor	Copper, Tin plated	Braid, 94%	4.42 mm
Jacket	RADOX EM104	RAL 9005 - bk	6.24 mm +/- 0.06

Print: HUBER+SUHNER RADOX_RF_59 75 OHM (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	68 pF/m
Velocity of signal propagation	66.1 %
Signal delay	5.05 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 3 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		5.5 kg/100 m
Min. bending radius	static	35 mm
	dynamic	60 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
2011/65/EU (RoHS)	compliant

Additional Information

EN 45545 compliant
 Hazard level for indoor cables: HL3
 NFPA-130 compliant

Ordering Information

Order as RADOX_RF_59

Remarks

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

Suitable Connectors

Cable group U16 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 = 0.325

b = 0.163

f_{max} = 1

P at 1GHz = 93

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
0,05	0,08	0,025	416
0,1	0,12	0,036	294
0,15	0,15	0,046	240
0,2	0,18	0,054	208
0,25	0,2	0,062	186
0,3	0,23	0,069	170
0,35	0,25	0,076	157
0,4	0,27	0,083	147
0,45	0,29	0,089	139
0,5	0,31	0,095	132
0,55	0,33	0,101	125
0,6	0,35	0,107	120
0,65	0,37	0,112	115
0,7	0,39	0,118	111
0,75	0,4	0,123	107
0,8	0,42	0,128	104
0,85	0,44	0,134	101
0,9	0,46	0,139	98
0,95	0,47	0,144	95
1,0	0,49	0,149	93