

SUITINER SWITZERLAND

SUHNER[®] COAXIAL CABLE DATA SHEET TYPE ENVIROFLEX 142

Double screened coaxial cable - flame retardant - free of halogen

Cable Design

Print:

	Material	Detail	Diameter	
Centre conductor:	Copper, Silver plated	Wire	0.95 mm	
Dielectric:	SPEX (Crosslink Foam PE)		2.98 mm	
1. Outer conductor:	Copper, Silver plated Braid	97%	3.64 mm	
2. Outer conductor:	Copper, Silver plated Braid	95%	4.3 mm	
Jacket:	RADOX (LSFH)	RAL 5012 - bl	5 mm +/- 0.1	

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t:	RADOX (LSFH)	RAL 5012 - bl	5 mm +/- 0.1
	HUBER+SUHNER ENVIROFLEX 14	42 50 Ohm E111025 UR AW	M (PA no.)

Electrical Data

Impedance:		50	Ω +/-2
Max. operating frequency:		6	GHz
Capacitance :		95	pF / m
Velocity of signal propagation:		70.9	%
Signal delay:		4.7	ns / m
Min. screening effectiveness:	>	75	dB (up to 5 GHz)
Max. operating voltage:		2.5	kV _{rms} (at sea level)
Test voltage:		5	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	>	100	x 10 ⁶ MΩ/m

General Data

Temperature range:		-40 °	°C +105 °C
Weight:		6	kg / 100 m
Min. bending radius :	static	30	mm
	repeated (for max. 50 bendings)	50	mm

Suitable Connectors

Cable group U9 / U10 (for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

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SUHNER® COAXIAL CABLE DATA SHEET

TYPE ENVIROFLEX_142

Matrix Attenuation [formula : (a*f^0.5 +b*f)] and Power CW [formula : (p*/ f^0.5)]

Coefficients:

a=	0.44	b=	0.103	f _{max} =. 6	p _{at 1GHz} = 250
	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
	0.30		0.272	0.0829	456.4
	0.60		0.403	0.1228	322.7
	0.90		0.510	0.1554	263.5
	1.20		0.606	0.1847	228.2
	1.50		0.693	0.2112	204.1
	1.80		0.776	0.2365	186.3
	2.10		0.854	0.2603	172.5
	2.40		0.929	0.2831	161.4
	2.70		1.001	0.3051	152.1
	3.00		1.071	0.3264	144.3
	3.30		1.139	0.3472	137.6
	3.60		1.206	0.3676	131.8
	3.90		1.271	0.3874	126.6
	4.20		1.334	0.4066	122.0
	4.50		1.397	0.4258	117.9
	4.80		1.458	0.4444	114.1
	5.10		1.519	0.4630	110.7
	5.40		1.579	0.4813	107.6
	5.70		1.638	0.4992	104.7
	6.00		1.696	0.5169	102.1

Test (following tests have been passed successfully)				
Flame propagation:	IEC 60332-1	UL 1581 - §1100 IEC 60332-2		
Halogen content:	IEC 60754			
Smoke:	DIN EN 50268-	-2		

Aging: *MIL-C-17 - §4.8.16*

Abrasion:

MIL-T-81490 - §4.7.19 - prod. II - modified

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