

HUBER+SUHNER® DATA SHEET

Coaxial Cable: ENVIROFLEX_393

Rev.: T



Description

PE Foam cross-linked - 50 Ohm - double screen (UL AWM Style 3651)

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.46 mm
Dielectric	SPEX (Crosslink Foam PE)		7.35 mm
Outer conductor	Copper, Silver plated	Braid, 92 %	8 mm
Outer conductor	Copper, Silver plated	Braid, 99 %	8.75 mm
Jacket	RADOX	black/bl line	10.05 mm +/- 0.15
Print	HUBER+SUHNER ENVIROFLEX 393 50 Ohm (UL logo) AWM Style 3651 (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	6 GHz
Capacitance	94.5 pF/m
Velocity of signal propagation	70.7 %
Signal delay	4.71 ns/m
Insulation resistance	$\geq 1 \times 10^7$ M Ω m
Min. screening effectiveness	>78 dB (up to 3 GHz)
Max. operating voltage	5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	300 V

Mechanical Data

Weight	18 kg/100 m
Min. bending radius	static 50 mm
	repeated (for max. 50 bendings) 100 mm

Environmental Data

Temperature range	-40 °C... + 105 °C
Temp. Rating UL	105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-2, UL 1581 § 1080 (VW-1), EN 60332-1-2
Smoke density	EN 61034-2
Halogen free	IEC 60754
Uv resistance test	IEC 60068-2-5, proc. C
Abrasion test	MIL-T-81490 - §4.7.19 - prod. II - modified
Thermal stress test	IEC 61196-1 § 10.9
2002/95/EC (RoHS)	compliant

Ordering Information

Order as ENVIROFLEX_393

Additional Information

Remarks

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

Suitable Connectors

Cable group	crimped (U33)
	clamped (U33)
	soldered —

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

Coefficients:

a=	0.1704	b=	0.1153	f _{max} =	6	p _{at} 1GHz =	495
	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
	0.3		0.13		0.040		904
	0.6		0.20		0.061		639
	0.9		0.27		0.082		522
	1.2		0.33		0.101		452
	1.5		0.38		0.116		404
	1.8		0.44		0.134		369
	2.1		0.49		0.149		342
	2.4		0.54		0.165		320
	2.7		0.59		0.180		301
	3.0		0.64		0.195		286
	3.3		0.69		0.210		272
	3.6		0.74		0.226		261
	3.9		0.79		0.241		251
	4.2		0.83		0.253		242
	4.5		0.88		0.268		233
	4.8		0.93		0.283		226
	5.1		0.97		0.296		219
	5.4		1.02		0.311		213
	5.7		1.06		0.323		207
	6.0		1.11		0.338		202

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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