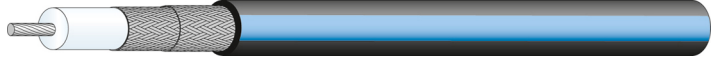


Coaxial Cable ENVIROFLEX_393

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)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 92%	8 mm
Outer conductor	Copper, Silver plated	Braid, 99 %	8.68 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
Operating Frequency		6 GHz
Capacitance		94.5 pF/m
Velocity of signal propagation		70.7 %
Signal delay		4.71 ns/m
Insulation resistance		≥ 1 x 10 ⁷ MΩm
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
Phase vs Temperature	-40°C... + 100°C	2800 ppm
Phase vs Bending		1.6 °/GHz

Mechanical Data

Weight		18 kg/100 m
Min. bending radius	static	30 mm
	repeated (for ≤ 50 bendings)	100 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Temperature 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 test	IEC 60754
Uv resistance test	IEC 60068-2-5, proc. C
Abraison test	MIL-T-81490 - §4.7.19 - prod. II - modified
Thermal stress test	IEC 61196-1 § 10.9
2011/65/EU (RoHS)	compliant

Additional Information

Railway certificates discontinued by end of 2017. No replacement type.

Ordering Information

Order as ENVIROFLEX_393

Remarks

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

Suitable Connectors

Cable group U33 7 mm / 50 Ohm

Coaxial Cable ENVIROFLEX_393

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

Coefficients:

a = 0.1704

b = 0.1153

f_{max} = 6

P at 1GHz = 495

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	0,13	0,039	904
0,6	0,2	0,061	639
0,9	0,27	0,081	522
1,2	0,33	0,099	452
1,5	0,38	0,116	404
1,8	0,44	0,133	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	0,225	261
3,9	0,79	0,240	251
4,2	0,83	0,254	242
4,5	0,88	0,268	233
4,8	0,93	0,282	226
5,1	0,97	0,297	219
5,4	1,02	0,310	213
5,7	1,06	0,324	207
6,0	1,11	0,338	202