## **Data Sheet**



≤ 0.5 kV<sub>rms</sub> (at sea level)

1 kV<sub>rms</sub> (50 Hz/1 min)

Flexible microwave cable S\_04272\_B Item: 22511622

#### **Description**

S: Low loss RF cables with foam PE dielectrics

50 Ohm, 18 GHz, 85°C, ø5.5 mm, PE jacket



#### **Technical Data**

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	SPE (Foamed Polyethylene)		3.8 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	4 mm
Outer conductor	Copper, Tin plated	Braid, 86 %	4.5 mm
Jacket	PE (Polyethylene)	RAL 5014 - bl	5.5 mm +/- 0.1

Print: HUBER+SUHNER S 04272 B 50 Ohm (production order number)

#### **Electrical Data**

Impedance 50 Ω +/- 2 Operating Frequency 18 GHz Capacitance 82 pF/m Velocity of signal propagation 82 % Signal delay 4.1 ns/m ≥ 90 dB (up to 18 GHz)

Screening effectiveness Operating voltage Test voltage

### **Mechanical Data**

4.4 kg/100 m Weight 25 mm Min. bending radius static 90 mm

#### **Environmental Data**

-40 °C ... +85 °C Temperature range -20 °C... +60 °C Installation temperature Halogen free Yes 2011/65/EU (RoHS - including compliant 2015/863 and 2017/2102) 1907/2006/EC (REACH) compliant 2000/53/EC (ELV) compliant

2012/19/EU (WEEE) no special marking needed

#### **Additional Information**

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

#### **Suitable Connectors**

Cable group X9 4 mm / 50 Ohm

# **Data Sheet**



# Flexible microwave cable S\_04272\_B Item: 22511622

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

Coefficients:

a = 0.197 b = 0.045  $f_{max} = 18$  P at 1GHz = 120

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,9	0,23	0,069	126
1,8	0,35	0,105	89
2,7	0,45	0,136	73
3,6	0,54	0,163	63
4,5	0,62	0,189	57
5,4	0,7	0,214	52
6,3	0,78	0,237	48
7,2	0,85	0,260	45
8,1	0,93	0,282	42
9,0	1,0	0,304	40
9,9	1,07	0,325	38
10,8	1,13	0,345	37
11,7	1,2	0,366	35
12,6	1,27	0,386	34
13,5	1,33	0,406	33
14,4	1,4	0,425	32
15,3	1,46	0,445	31
16,2	1,52	0,464	30
17,1	1,58	0,483	29
18,0	1,65	0,502	28

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

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