

## Coaxial Cable S\_06162\_D-03

### Description

PE Foam - 50 Ohm - double screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	2.05 mm
Dielectric	SPE (Foamed Polyethylene)		5.6 mm
Outer conductor	Copper	Braid, 90%	6.1 mm
Outer conductor	Copper	Braid, 95 %	6.75 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	7.9 mm +/- 0.1

Print: HUBER+SUHNER S 06162 D-03 50 Ohm (PA no.)

#### Electrical Data

Impedance	50 Ω +/- 1.5
Operating Frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MQm
Min. screening effectiveness	≥ 82 dB (up to 6 GHz)
Max. operating voltage	≤ 0.75 kV <sub>rms</sub> (at sea level)
Test voltage	1.5 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		11 kg/100 m
Min. bending radius	static	40 mm
	repeated (for ≤ 50 bendings)	80 mm

#### Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	UL 1581 § 1080 (VW-1), ,
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as S\_06162\_D-03

#### Remarks

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

#### Suitable Connectors

Cable group S24 6 mm / 50 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 = 0.239

b = 0.023

$f_{\max} = 6$

P at 1GHz = 280

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	0.14	0.042	511
0.6	0.2	0.061	361
0.9	0.25	0.075	295
1.2	0.29	0.088	256
1.5	0.33	0.100	229
1.8	0.36	0.110	209
2.1	0.39	0.120	193
2.4	0.43	0.130	181
2.7	0.45	0.139	170
3.0	0.48	0.147	162
3.3	0.51	0.155	154
3.6	0.54	0.163	148
3.9	0.56	0.171	142
4.2	0.59	0.179	137
4.5	0.61	0.186	132
4.8	0.63	0.193	128
5.1	0.66	0.200	124
5.4	0.68	0.207	120
5.7	0.7	0.214	117
6.0	0.72	0.220	114