

## Coaxial Cable S\_04162\_B-01

### Description

PE Foam - 50 Ohm - double screened (Former description S\_04162\_B-60)



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	SPE (Foamed Polyethylene)		3.83 mm
Outer conductor	Aluminum / PES	longitudinal Foil	4.2 mm
	Copper, Tin plated	Braid, 86 %	4.6 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5.5 mm +/- 0.1

Print: HUBER+SUHNER S 04162 B-01 50 Ohm (PA no.)

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	80.3 pF/m
Velocity of signal propagation	83 %
Signal delay	4.01 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MΩm
Min. screening effectiveness	≥ 80 dB (up to 2.2 GHz)
Max. operating voltage	≤ 0.5 kV <sub>rms</sub> (at sea level)
Test voltage	1 kV <sub>rms</sub> (50 Hz/1 min)
Voltage Rating UL	30 V

#### Mechanical Data

Weight		4.78 kg/100 m
Min. bending radius	static	55 mm
	repeated (for ≤ 50 bendings)	82 mm

#### Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	UL 1581 § 1080 (VW-1), ,
Uv resistance test	ISO 4892-2A
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as S\_04162\_B-01

#### Remarks

(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

## Coaxial Cable S\_04162\_B-01

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

Coefficients:

a = 0.235

b = 0.0274

$f_{max} = 6$

P at 1GHz = 138

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	252
0.6	0.2	0.060	178
0.9	0.25	0.075	145
1.2	0.29	0.088	126
1.5	0.33	0.100	113
1.8	0.36	0.111	103
2.1	0.4	0.121	95
2.4	0.43	0.131	89
2.7	0.46	0.140	84
3.0	0.49	0.149	80
3.3	0.52	0.158	76
3.6	0.54	0.166	73
3.9	0.57	0.174	70
4.2	0.6	0.182	67
4.5	0.62	0.190	65
4.8	0.65	0.197	63
5.1	0.67	0.204	61
5.4	0.69	0.212	59
5.7	0.72	0.219	58
6.0	0.74	0.226	56