

## Coaxial Cable S\_07262\_BD

### Description

PE Foam - 50 Ohm - high screened - precision type



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.82 mm
Dielectric	SPE (Foamed Polyethylene)		7.38 mm
Outer conductor	Copper, Silver plated	Braid, 96%	8 mm
Outer conductor	Copper	wrapped Foil, 100 %	8.1 mm
Outer conductor	Copper, Tin plated	Braid, 93 %	9 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	10.8 mm +/- 0.15

Print: HUBER+SUHNER S 07262 BD 50 Ohm (PA no.)

#### Electrical Data

Impedance		50 Ω +/- 1
Operating Frequency		3 GHz
Capacitance		82 pF/m
Velocity of signal propagation		82 %
Signal delay		4.1 ns/m
Insulation resistance		≥ 1 x 10 <sup>8</sup> MQm
Min. screening effectiveness		≥ 90 dB (up to 3 GHz)
Max. operating voltage		≤ 1.05 kV <sub>rms</sub> (at sea level)
Test voltage		2.1 kV <sub>rms</sub> (50 Hz/1 min)
Phase vs Temperature	-25°C... + 85°C	2370 ppm
Phase vs Bending		0.4 °/GHz

#### Mechanical Data

Weight		20.6 kg/100 m
Min. bending radius	static	70 mm
	repeated (for ≤ 50 bendings)	110 mm

#### Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, ,
Ozone test	IEC 811-2-1 - class 8
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as S\_07262\_BD

#### Remarks

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

#### Suitable Connectors

Cable group S32 7 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 = 0.1507

b = 0.0353

f<sub>max</sub> = 3

P at 1GHz = 520

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
0.15	0.06	0.019	1343
0.3	0.09	0.028	949
0.45	0.12	0.036	775
0.6	0.14	0.042	671
0.75	0.16	0.048	600
0.9	0.17	0.053	548
1.05	0.19	0.058	507
1.2	0.21	0.063	475
1.35	0.22	0.068	448
1.5	0.24	0.072	425
1.65	0.25	0.077	405
1.8	0.27	0.081	388
1.95	0.28	0.085	372
2.1	0.29	0.089	359
2.25	0.31	0.093	347
2.4	0.32	0.097	336
2.55	0.33	0.101	326
2.7	0.34	0.105	316
2.85	0.36	0.108	308
3.0	0.37	0.112	300