



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 10162 B-11

**Double screened low loss coaxial cable - flame retardant - free of halogen**

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAl	Wire ( 3.78 mm)	3.78 mm
Dielectric:	SPE		9.75 mm
1. Outer conductor:	Cu longitudinal Foil	100% coverage	9.85 mm
2. Outer conductor:	Cu Braid	80% coverage	10.7 mm
Jacket:	LSFH	RAL 9005 - bk	12.9 mm +/-0.1
Print:	SUHNER SWITZERLAND S 10162 B-11 50 Ohm		

### Electrical Data

Impedance:	50	$\Omega$ +/-2
Max. operating frequency:	7.5	GHz
Capacitance :	77	pF / m
Velocity of signal propagation:	87	%
Signal delay:	3.85	ns / m
Min. screening effectiveness:	> 90	dB (up to 7.5 GHz)
Max. operating voltage:	1.5	kV <sub>rms</sub> (at sea level)
Test voltage:	3	kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10	M $\Omega$ m

### General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	15 kg / 100 m
Min. bending radius :	static 50 mm
	repeated (for max. 50 bendings) 60 mm

### Suitable Connectors

Cable group *n/a / S39*  
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

Order as **S 10162 B-11** under article number **23002145**

#### WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



**HUBER+SUHNER**

HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>

Issued: 26.6.2002 14:25

Document: TEMP\_PDB\_2300214  
5.PDF

RF\_Co\_Ca\_PDF

uncontrolled copy

Page 1



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 10162 B-11

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

Coefficients:

$a = 0.0826$

$b = 0.0129$

$f_{\max} = 7.5$

$p_{\text{at } 1\text{GHz}} = 700$

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
0.38	0.056	0.0171	1'135.5
0.75	0.081	0.0247	808.3
1.13	0.102	0.0311	658.5
1.50	0.121	0.0369	571.5
1.88	0.138	0.0421	510.5
2.25	0.153	0.0466	466.7
2.63	0.168	0.0512	431.6
3.00	0.182	0.0555	404.1
3.38	0.195	0.0594	380.7
3.75	0.208	0.0634	361.5
4.13	0.221	0.0674	344.4
4.50	0.233	0.0710	330.0
4.88	0.245	0.0747	316.9
5.25	0.257	0.0783	305.5
5.63	0.269	0.0820	295.0
6.00	0.280	0.0853	285.8
6.38	0.291	0.0887	277.1
6.75	0.302	0.0920	269.4
7.13	0.313	0.0954	262.2
7.50	0.323	0.0984	255.6

**Test** (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

### WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



**HUBER+SUHNER**

HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>

Issued: 26.6.2002 14:25

Document: TEMP\_PDB\_2300214  
5.PDF

RF\_Co\_Ca\_PDF

uncontrolled copy

Page 2