



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S 07262 BD-02

**Flexible - low-loss - high screened coaxial cable - flame retardant - free of halogen - precision type**

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 ( 0.95 mm)	2.82 mm
Dielectric:	SPE		7.35 mm
1. Outer conductor:	CuAg Braid	96% coverage	8 mm
2. Outer conductor:	Cu wrapped Foil	100% coverage	8.1 mm
3. Outer conductor:	CuSn Braid	93% coverage	9 mm
Jacket:	LSFH	RAL 1021 - ye	10.8 mm +/-0.1
Print:	SUHNER SWITZERLAND - CERN CKA50 ZERO HALOGEN		
Armour E:	n/a		

### Electrical Data

Impedance:	50 $\Omega$ +/-1
Max. operating frequency:	3 GHz
Capacitance :	82.6 pF / m
Velocity of signal propagation:	81 %
Signal delay:	4.13 ns / m
Min. screening effectiveness:	> 105 dB (up to 3 GHz)
Max. operating voltage:	1.05 kV <sub>rms</sub> (at sea level)
Test voltage:	2 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	20.6 kg / 100 m
Min. bending radius :	static 70 mm
	repeated (for max. 50 bendings) 110 mm

### Suitable Connectors

Cable group S32 / n/a  
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

### Notes

#### WAIVER!

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Order as **S 07262 BD-02** under article number **22512130**

## TYPE S 07262 BD-02

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

Coefficients:

$a = 0.1507$

$b = 0.053$

$f_{\max} = 3$

$p_{\text{at } 1\text{GHz}} = 550$

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	0.066	0.0201	1'420.1
0.30	0.098	0.0299	1'004.2
0.45	0.125	0.0381	819.9
0.60	0.149	0.0454	710.0
0.75	0.170	0.0518	635.1
0.90	0.191	0.0582	579.8
1.05	0.210	0.0640	536.7
1.20	0.229	0.0698	502.1
1.35	0.247	0.0753	473.4
1.50	0.264	0.0805	449.1
1.65	0.281	0.0856	428.2
1.80	0.298	0.0908	409.9
1.95	0.314	0.0957	393.9
2.10	0.330	0.1006	379.5
2.25	0.345	0.1052	366.7
2.40	0.361	0.1100	355.0
2.55	0.376	0.1146	344.4
2.70	0.391	0.1192	334.7
2.85	0.405	0.1234	325.8
3.00	0.420	0.1280	317.5

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

Flame propagation: IEC 332-1

Halogen content IEC 754

Ozone: IEC 811-2-1 - class 8

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