## HUBER+SUHNER® DATA SHEET

## Coaxial Cable: S 10162 B-11

Rev.: N



PE Foam - 50 Ohm - high screened

### Technical Data

### Construction

50 Ω +/- 2

7.5 GHz

77 pF/m

87 %

3.85 ns/m

* 1 x 108 MQm
* 90 dB (up to 7.5 GHz)

1.7 kVrms (at sea level)

3.4 kVrms (50 Hz/1 min)

#### Environmental Data

Temperature range

Installation temperature

Flammability

Smoke density

Halogen free

Uv resistance test

Toxic fume

2002/95/EC (RoHS)

### Ordering Information

Order as S 10162 B-11

### Additional Information Remarks

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

#### Suitable Connectors

Cable group

crimped (S39) clamped (on request) soldered —

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Material | Detail | Diameter | |
| Centre conductor | Copper clad Aluminum | Wire | 3.8 | mm |
| Dielectric | SPE (Foamed Polyethylene) |  | 9.9 | mm |
| Outer conductor | Copper | longitudinal Foil, 100 % | 10 | mm |
| Outer conductor | Copper | Braid, 80 % | 10.8 | mm |
| Jacket | LSFH (modified polyethylene) | RAL 9005 - bk | 12.9 | mm +/- 0.2 |

Print HUBER+SUHNER S 10162 B-11 50 Ohm (PA no.)

Electrical Data

Impedance

Max. operating frequency

Capacitance

Velocity of signal propagation

Signal delay Insulation resistance

Min. screening effectiveness

Max. operating voltage

Test voltage

#### Mechanical Data

|  |  |  |  |
| --- | --- | --- | --- |
| Weight |  | 15 | kg/100 m |
| Min. bending radius | static | 100 | mm |
|  | repeated (for max. 50 bendings) | 200 | mm |

-40 °C... + 85 °C

-20 °C... + 60 °C

IEC 60332-1, EN 60332-1-2, BS 4066-3, NF C 32-070 C2

EN 61034-2, NF X 10-702

IEC 60754

ISO 4892-2A

BS 6853 Annex B, NF X 70-100

compliant

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

Rev.: N



Coefficients:

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a= | 0.0826 | b= | 0.0129 | fmax.= | 7.5 | Pat 1GHz = | 700 |
|  |  |  |  |  |  |  |  |
|  | Frequency |  | Nom. attenuation |  | Nom. attenuation |  | Max. CW power |
|  | (GHz) |  | (dB / m) |  | (dB / ft) |  | (watt) |
|  |  |  | sea level 25° C ambient temperature |  | sea level 25° C ambient temperature |  | sea level 40° C ambient temperature |
|  |  |  |  |  |  |  |  |
|  | 0.4 |  | 0.06 |  | 0.018 |  | 1107 |
|  | 0.8 |  | 0.08 |  | 0.024 |  | 783 |
|  | 1.1 |  | 0.10 |  | 0.030 |  | 667 |
|  | 1.5 |  | 0.12 |  | 0.037 |  | 572 |
|  | 1.9 |  | 0.14 |  | 0.043 |  | 508 |
|  | 2.3 |  | 0.15 |  | 0.046 |  | 462 |
|  | 2.6 |  | 0.17 |  | 0.052 |  | 434 |
|  | 3.0 |  | 0.18 |  | 0.055 |  | 404 |
|  | 3.4 |  | 0.20 |  | 0.061 |  | 380 |
|  | 3.8 |  | 0.21 |  | 0.064 |  | 359 |
|  | 4.1 |  | 0.22 |  | 0.067 |  | 346 |
|  | 4.5 |  | 0.23 |  | 0.070 |  | 330 |
|  | 4.9 |  | 0.25 |  | 0.076 |  | 316 |
|  | 5.3 |  | 0.26 |  | 0.079 |  | 304 |
|  | 5.6 |  | 0.27 |  | 0.082 |  | 296 |
|  | 6.0 |  | 0.28 |  | 0.085 |  | 286 |
|  | 6.4 |  | 0.29 |  | 0.088 |  | 277 |
|  | 6.8 |  | 0.30 |  | 0.091 |  | 268 |
|  | 7.1 |  | 0.31 |  | 0.094 |  | 263 |
|  | 7.5 |  | 0.32 |  | 0.098 |  | 256 |

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HUBER+SUHNER is certified according to ISO 9001 and ISO 14001