

## Coaxial Cable SUCOFEED\_3/8\_HF

### Description

High flexible corrugated coaxial cable



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper clad Aluminum	Wire	typ. 2.8 mm
Dielectric	SPE (Foamed Polyethylene)		typ. 7 mm
Outer conductor	Copper	Tube (c)100%	typ. 9.5 mm
Jacket	PE-LD (Low-density polyethylene)	RAL 9005 - bk	10.8 mm +/- 0.2

Print: HUBER+SUHNER\_SUCOFEED\_3/8\_HF\_#batch-number#\_#metric-length#

#### Electrical Data

Impedance	50 Ω +/- 1
Operating Frequency	≤ 12 GHz
Capacitance	typ. 79.9 pF/m
Inductance	typ. 0.2 μH/m
Velocity of signal propagation	typ. 83 %
Signal delay	typ. 4 ns/m
Insulation resistance	≥ 5 x 10 <sup>6</sup> MΩm
Screening effectiveness	≥ 120 dB
Operating voltage	≤ 0.9 kVrms (at sea level)
Test voltage	2 kVrms (50 Hz/1 min)
Outer conductor resistance DC	≤ 4.99 Ω/km
Inner conductor resistance DC	≤ 4.23 Ω/km

#### Mechanical Data

Weight	≤ 12.2 kg/100 m
Bending Radius	static ≥ 25 mm
Bending Radius	repeated (for ≤ 15 bendings) ≥ 50 mm
Tensile strength	≤ 500 N
Bending force moment	≤ 2.3 Nm

#### Environmental Data

Temperature range	-55 °C... +85 °C
Installation temperature	-25 °C... +60 °C
Halogen test	IEC 60754-1
2011/65/EU (RoHS)	compliant

### Additional Information

#### Remarks

(For details contact your nearest HUBER+SUHNER partner)

#### Suitable Connectors

Cable group M7 7 mm / 50 Ohm

#### Suitable Tools

#### Suitable Grounding Kit

Cable grounding kit 9076.99.N014 9076.99.P014

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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 = 0.123422675 typ.

b = 0.009884948 typ.

f<sub>max.</sub> = 12

P ≤ at 1GHz = 540

Frequency (GHz)	Nom. attenuation (dB / 100 m)	Nom. attenuation (dB / 100 ft)	Max. CW power (watt)
	sea level 20° C ambient temperature	sea level 20° C ambient temperature	sea level 40° C ambient temperature
0.100	4.00	1.22	1708
0.150	4.93	1.50	1394
0.200	5.72	1.74	1207
0.400	8.20	2.50	854
0.450	8.72	2.66	805
0.500	9.22	2.81	764
0.700	11.02	3.36	645
0.800	11.83	3.61	604
0.900	12.60	3.84	569
1.000	13.33	4.06	540
1.500	16.60	5.06	441
1.700	17.77	5.42	414
1.800	18.34	5.59	402
2.000	19.43	5.92	382
2.200	20.48	6.24	364
2.500	21.99	6.70	342
3.000	24.34	7.42	312

**Matrix** typical Return Loss

Frequency Range (MHz)	Frequency Range (MHz)	Frequency Range (MHz)	Frequency Range (MHz)
380 to 470	806 to 960	1710 to 2200	5 to 3000
typ. 28.5 dB	typ. 26.9 dB	typ. 25.6 dB	typ. 21 dB