

## Radiating Cable SUCORAD\_7/8\_LM\_FR

### Description

Coaxial radiating cable  
50 Ohm, 900 MHz, 80°C, ø23.5 mm, PE jacket



### Technical Data

#### Construction

	Material	Detail	Diameter	
Centre conductor	Copper	Smooth tube	8.6	mm
Dielectric	PE	Physically foamed	22.5	mm
Outer conductor	Copper	Overlapping foil with slots	23.5	mm
Jacket	PE	Halogen free, flame retardant, black	27.0	mm
Print	HUBER+SUHNER SUCORAD_7/8_LM_FR_#batch-number_#metric-length#			

#### Electrical Data

Impedance	50	Ω +/- 2
Operating Frequency	900	MHz
VSWR	≤ 1.3	
Capacitance	76	pF/m
Velocity of signal propagation	88	%
DC breakdown voltage	10	kV
Insulation resistance	≥ 5	GΩ·Km
Outer conductor resistance DC	≤ 4.0	Ω/Km
Inner conductor resistance DC	≤ 3.0	Ω/Km

#### Mechanical Data

Cable size	7/8"
Cable weight	44 Kg/100m
Minimum bending radius	single 300 mm
Tensile force	1300 N
Indication of slot alignment	Embossed line 180° opposite

#### Environmental Data

Operating temperature	- 30 °C ... + 80 °C
Installation temperature	- 25 °C ... + 60 °C
Storage temperature	- 30 °C ... + 80 °C
Flammability	IEC 60332-1, IEC 60332-3-24
Smoke density	IEC 61034
Halogen test, Smoke emission	IEC 60754-1, IEC 60754-2
2011/65/EU (RoHS – including 2015/863 and 2017/2102)	Compliant
1907/2006/EC (REACH)	Compliant
2015/305/EU (CPR)	Compliant, EN50575:2017 class Eca

#### Installation Data

Recommended clamp spacing	1 m
Recommended distance to wall	80 to 180mm, 50mm min.

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 und IRIS

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#### 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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### Additional Information

#### Ordering Information

Order as  
 Item no. 85150850  
 HUBER+SUHNER Type no. SUCORAD\_7/8\_LM\_FR

#### Remarks

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

#### Suitable Connectors

Item no.	85152707	85152703	85152699	85152695
HUBER+SUHNER Type no.	11_N_78	21_N_78	11_716_78	21_716_78

#### Transmission Data

Frequency (MHz)	Nom. attenuation* (dB / 100m)	Nom. attenuation (dB / 100ft)	Coupling loss** (50% / 95%) (dB)
	sea level 20° C ambient temperature	sea level 20° C ambient temperature	sea level 20° C ambient temperature
75	1.05	0.320	71 / 81
100	1.23	0.375	74 / 85
150	1.51	0.460	63 / 69
380	2.72	0.829	58 / 62
400	2.75	0.838	56 / 60
450	2.96	0.902	56 / 59
470	3.07	0.936	58 / 59
700	3.53	1.076	67 / 72
800	3.83	1.167	65 / 68
900	5.75	1.753	67 / 76

\* Attenuation and coupling loss are measured by free space method according to IEC 61196-4

\*\* Attenuation and coupling loss values are given with tolerances of 5% and +10dB

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