

S_03279_150 **Item: 22511485**

Description

S: Low loss RF cables with foam PE dielectrics
 135 Ohm, 1 GHz, 85°C, ø5 mm, PE jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.15 mm
Dielectric	SPE (Foamed Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95%	3.6 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	5 mm +/- 0.15

Print: HUBER+SUHNER S_03279_150 (production order number)

Electrical Data

Impedance	135 Ω
Operating Frequency	1 GHz
Capacitance	28 pF/m
Velocity of signal propagation	82 %
Signal delay	4.1 ns/m
Operating voltage	≤ 0.25 kV _{rms} (at sea level)
Test voltage	0.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		3.2 kg/100 m
Min. bending radius	static	25 mm
		50 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

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	U99 Customer Specific
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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 =	b =	$f_{\max} = 1$	P at 1GHz = 25
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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 (W) sea level 40° C ambient temperature
0.05			112
0.1			79
0.15			65
0.2			56
0.25			50
0.3			46
0.35			42
0.4			40
0.45			37
0.5			35
0.55			34
0.6			32
0.65			31
0.7			30
0.75			29
0.8			28
0.85			27
0.9			26
0.95			26
1.0			25