

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_214_HIFLEX



Description

PE-50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	2.25 mm
Dielectric	POE (Polyolefine Elastomer)		7.3 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	8 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	8.7 mm
Jacket	PVC II (non migration)	RAL 9005 - bk	10.8 mm +/- 0.15
Print	HUBER+SUHNER RG 214 HiFlex 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	6	GHz
Capacitance	101	pF/m
Velocity of signal propagation	66	%
Signal delay	5.03	ns/m
Insulation resistance	$\geq 1 \times 10^6$	M Ω m
Min. screening effectiveness	>70	dB (up to 1 GHz)
Max. operating voltage	5	kV _{rms} (at sea level)
Test voltage	10	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	18.5	kg/100 m
Min. bending radius	static	50 mm
	repeated (for max. 50 bendings)	108 mm

Environmental Data

Temperature range	-25 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Flammability 2002/95/EC (RoHS)	IEC 60332-1 compliant

Ordering Information

Order as	RG_214_HIFLEX
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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 (U32) clamped (U33) soldered —
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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.1924	b=	0.0567	f _{max.} =	6	p _{at} 1GHz =	320
	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
	0.3		0.12		0.037		584
	0.6		0.18		0.055		413
	0.9		0.23		0.070		337
	1.2		0.28		0.085		292
	1.5		0.32		0.098		261
	1.8		0.36		0.110		239
	2.1		0.40		0.122		221
	2.4		0.43		0.131		207
	2.7		0.47		0.143		195
	3.0		0.50		0.152		185
	3.3		0.54		0.165		176
	3.6		0.57		0.174		169
	3.9		0.60		0.183		162
	4.2		0.63		0.192		156
	4.5		0.66		0.201		151
	4.8		0.69		0.210		146
	5.1		0.72		0.219		142
	5.4		0.75		0.229		138
	5.7		0.78		0.238		134
	6.0		0.81		0.247		131

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

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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