

# RG179 LSFH, 75 Ohm, 3 GHz, 105°C, ø2.54 mm, RADOX® jacket

ENVIROFLEX\_179-01

## Properties

- Halogen free alternative to RG cables
- Low smoke
- Ozone, UV and weathering resistance
- UL AWM style 3651



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Strand-07	0.305 mm
Dielectric	SPEX (Crosslink Foam PE)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94%	2 mm
Outer conductor			
Jacket	RADOX	RAL 9005 - bk	2.54 mm +/- 0.07 mm

Electrical data	
Impedance	75 Ω +/-3Ω
Operating frequency	≤ 3 GHz
Capacitance	63 pF/m
Velocity of signal propagation	70 %
Signal delay	4.78 ns/m
Insulation resistance	10000000 MΩ*m
Inner conductor resistance	802 Ω/km
Operating Voltage (at sea level)	≤ 1 kVrms
Voltage Rating UL	300 V
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 11.1 g/m
Static bending radius	≥ 5 mm
Repeated bending radius	25 mm (bendings, up to 50)

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Environmental data	
Operation temperature	-40 °C ... 105 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	UL 1581 § 1100
	UL 1581 § 1090
Fire characteristics	free of halogenes, acc. standard IEC 60754
Smoke test	DIN EN 50268-2
Ageing test	n/a
Cold bend test	n/a
UV resistance	IEC 60068-2-5, proc. C

Suitable connectors	
Cable group	U5

Ordering information		
Item number	Item description	Available as assembly only
84021688	ENVIROFLEX_179-01	No

Power Matrix			
Calculation: typical Attenuation [ formula: (a*f^0.5 + b*f) ] and maximum Power CW [ formula: (p/f^0.5) ]			
a coefficient typical =	<b>0.8288</b>	b coefficient typical =	<b>0.0725</b>
fmax =	<b>3</b>	P at 1 GHz =	<b>45</b>
<b>Frequency</b>	<b>Nom. attenuation</b>	<b>Nom. attenuation</b>	<b>CW power</b>
<b>GHz</b>	<b>(dB/m)</b>	<b>(dB/ft)</b>	<b>(W)</b>
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.269	0.082	142
0.20	0.385	0.117	101
0.30	0.476	0.145	82
0.40	0.553	0.169	71
0.60	0.685	0.209	58
0.80	0.799	0.244	50
1.00	0.901	0.275	45
1.20	0.995	0.303	41
1.40	1.082	0.330	38
1.60	1.164	0.355	36
1.80	1.242	0.379	34
2.00	1.317	0.401	32
2.50	1.492	0.455	28
3.00	1.653	0.504	26

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