

RG223 LSFH, 50 Ohm, 6 GHz, 105°C, ø5.4 mm, RADOX® jacket

GX_03272_D-06

Properties

- Halogen free alternative to RG_223
- Suitable for use in applications up to 6 GHz
- Low smoke
- Ozone, UV and weathering resistance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire, 96 %, RAL 9005 - bk	0.88 mm - 0.1 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 96%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94%	4.2 mm
Jacket	RADOX	RAL 9005 - bk	5.4 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	80 dB at frequency 0.001 GHz ... 6GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	27.7 Ω/km
Operating Voltage (at sea level)	≤ 2.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 55 g/m
Static bending radius	≥ 30 mm
Repeated bending radius	54 mm

Environmental data	
Operation temperature	-40 °C ... 105 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1

RG223 LSFH, 50 Ohm, 6 GHz, 105°C, Ø5.4 mm, RADOX® jacket
GX_03272_D-06

Environmental data			
Fire characteristics		free of halogenes, acc. standard IEC 60754	
Suitable connectors			
Cable group		U9	
Ordering information			
Item number		Item description	Available as assembly only
22511592		GX_03272_D-06	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 =	0.3952	b coefficient typical =	0.0779
fmax =	6.0	P at 1 GHz =	205.0
Frequency	Nom. attenuation	Nom. attenuation	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.133	0.041	648
0.20	0.192	0.059	458
0.30	0.240	0.073	374
0.40	0.281	0.086	324
0.60	0.353	0.108	265
0.80	0.416	0.127	229
1.00	0.473	0.144	205
1.20	0.526	0.160	187
1.40	0.577	0.176	173
1.60	0.625	0.190	162
1.80	0.670	0.204	153
2.00	0.715	0.218	145
2.50	0.820	0.250	130
3.00	0.918	0.280	118
3.50	1.012	0.308	110
4.00	1.102	0.336	102
4.50	1.189	0.362	97
5.00	1.273	0.388	92
5.50	1.355	0.413	87
6.00	1.435	0.437	84

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P1053 / Date of publication: 08.08.2024 / uncontrolled copy