

**50 Ohm, 1 GHz, 205°C, Ø1.25 mm, PFA jacket**

K\_01152-07

**Properties**

- Flexible RF cable with PFA Dielectric
- PFA jacket
- Suitable for use in applications up to 3 GHz
- Extended temperature range



<b>Construction</b>			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	0.19 mm
Dielectric	PFA (Perfluoroalkoxy)		0.52 mm
Outer conductor	Copper, Silver plated	Braid, 87%	0.9 mm
Jacket	PFA (Perfluoroalkoxy)	RAL 9010 - wh	1.25 mm +/- 0.05 mm

<b>Electrical data</b>	
Impedance	50 Ω +/-5Ω
Operating frequency	≤ 1 GHz
Capacitance	96.6 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Screening effectiveness	40 dB at frequency 0.001 GHz ... 1GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.4 kVrms
Test voltage (50 Hz/1 min)	≤ 0.8 kVrms

<b>Mechanical data</b>	
Weight	approx. 9 g/m
Static bending radius	≥ 6 mm
Repeated bending radius	12 mm
Dynamic bending radius	< 20 mm

<b>Environmental data</b>	
Operation temperature	-80 °C ... 205 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-3 UL (horizontal flame test)

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Environmental data	
Fire characteristics	contains halogene

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511192	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

Suitable connectors	
Cable group	U0

Ordering information		
Item number	Item description	Available as assembly only
22511192	K_01152-07	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>2.21</b>	b coefficient typical =	<b>0.259</b>
fmax =	<b>1</b>	P at 1 GHz =	<b>27</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
0.20	1.040	0.317	60
0.40	1.501	0.458	43
0.60	1.867	0.569	35
0.80	2.184	0.666	30
1.00	2.469	0.753	27

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