

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



Construction			
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

Electrical data	
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

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

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

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

K_01152-07

Environmental data	
Fire characteristics	contains halogene

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 =	2.21	b coefficient typical =	0.259
fmax =	1	P at 1 GHz =	27
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
0.20	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

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-P1041 / Date of publication: 08.08.2024 / uncontrolled copy