

# 600 Low Loss Flexible Communication Coax - 50 Ohm

## Cable Design

<b>Inner Conductor</b>	Solid plain copper clad aluminium	Ø 4,47 mm
<b>Dielectric</b>	Foam Polyethylene (PE)	Ø 11,56 mm
<b>Shield</b>	Aluminium tape	Ø 11,71 mm
<b>Braid</b>	Tinned copper wire braid	Ø 12,45 mm
<b>Outer Jacket</b>	Polyethylene (PE) or LSZH FireFighter®	Ø 14,99 mm



## Mechanical and Thermal Characteristics

Bending radius	installed	38,1	mm
	repeated	152,4	mm
Bending moment		3,73	N/m
Weight		200	kg/km
Tensile strength		158,9	kg
Flat plate crush		1,07	kg/mm
Temperature Range	Installation	-40 to +85	°C
	Storage	-70 to +85	°C
	Operating	-40 to +85	°C

## Electrical Data

Velocity of propagation		87	%
Dielectric constant		1,32	
Time delay		3,83	ns/m
Impedance		50	Ohm
Capacitance		76,6	pF/m
Inductance		0,19	µH/m
Shielding effectiveness	>	90	dB
DC Resistance	Inner Conductor	1,7	Ohm/km
	Outer Conductor	3,9	Ohm/km
Voltage withstand		4000	V
Jacket spark		8000	V rms
Peak power		40	kW



## Attenuation & Average Power

Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kW)
30	1.4	5.51
50	1.8	4.24
150	3.2	2.41
220	3.9	1.97
450	5.6	1.35
900	8.2	0.93
1500	10.9	0.70
1800	12.1	0.63
2000	12.8	0.59
2500	14.5	0.52
5800	23.8	0.32

## Specification

Part Number	Type
600502	Polyethylene (PE)
600504	LSZH FireFighter® IEC 60332-1