

240 Low Loss Flexible Communication Coax - 50 Ohm

Cable Design

Inner Conductor	Solid plain copper wire	Ø 1,42 mm
Dielectric	Foam Polyethylene (PE)	Ø 3,81 mm
Shield	Aluminium/Polyester/Aluminium	Ø 3,94 mm
Braid	Tinned copper wire braid	Ø 4,52 mm
Outer Jacket	Polyethylene (PE) or LSZH FireFighter®	Ø 6,10 mm



Mechanical and Thermal Characteristics

Bending radius	installed	19,1	mm
	repeated	63,5	mm
Bending moment		0,34	N/m
Weight		50	kg/km
Tensile strength		36,3	kg
Flat plate crush		0,36	kg/mm
Temperature Range	Installation	-40 to +85	°C
	Storage	-70 to +85	°C
	Operating	-40 to +85	°C

Electrical Data

Velocity of propagation		84	%
Dielectric constant		1,42	
Time delay		3,97	ns/m
Impedance		50	Ohm
Capacitance		79,4	pF/m
Inductance		0,20	µH/m
Shielding effectiveness	>	90	dB
DC Resistance	Inner Conductor	10,5	Ohm/km
	Outer Conductor	12,8	Ohm/km
Voltage withstand		1500	V
Jacket spark		5000	V rms
Peak power		5,6	kW



Attenuation & Average Power

Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kW)
30	4.4	1.49
50	5.7	1.15
150	9.9	0.66
220	12.0	0.54
450	17.3	0.38
900	24.8	0.26
1500	32.4	0.20
1800	35.6	0.18
2000	37.7	0.17
2500	42.4	0.15
5800	66.8	0.10

Specification

Part Number	Type
240502	Polyethylene (PE)
240504	LSZH FireFighter® IEC 60332-1