

# Signum<sup>®</sup> 400

Low Loss Flexible Communication Coax 50 Ohm

**Signum<sup>®</sup>**  
Low Loss Coaxial Cable



## Cable Design

Inner Conductor	Solid plain copper clad aluminium	Ø 2,74 mm
Dielectric	Foam Polyethylene (PE)	Ø 7,24 mm
Shield	Aluminium tape	Ø 7,39 mm
Braid	Tinned copper wire braid	Ø 8,13 mm
Outer Jacket	Polyethylene (PE)	Ø 10,10 ± 0,50 mm

## Specification

Part Number	Type
400502	Polyethylene (PE)

## Mechanical and Thermal Characteristics

Bending radius	10	x Ø
Bending moment	0,68	N/m
Weight	100	kg/km
Tensile strength	72,6	kg
Flat plate crush	0,71	kg/mm
Temperature Range	Installation	-40 to +85 °C
	Storage	-70 to +85 °C
	Operating	-40 to +85 °C



# Signum<sup>®</sup> 400

Low Loss Flexible Communication Coax 50 Ohm

## Electrical Data

Velocity of propagation		85	%
Dielectric constant		1,38	
Time delay		3,92	ns/m
Impedance		50	Ohm
Capacitance		78,4	pF/m
Inductance		0,20	μH/m
Shielding effectiveness		> 90	dB
DC Resistance	Inner Conductor	4,6	Ohm/km
	Outer Conductor	5,4	Ohm/km
Voltage withstand		2500	V
Jacket spark		8000	V rms
Peak power		16	kW

## Attenuation & Average Power

Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kW)
30	2.2	3.33
50	2.9	2.57
150	5.0	1.47
220	6.1	1.20
450	8.9	0.83
900	12.8	0.58
1500	16.8	0.44
1800	18.6	0.40
2000	19.6	0.37
2500	22.2	0.33
5800	35.5	0.21

Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.