

# Signum® 195

Low Loss Flexible Communication Coax 50 Ohm



## Cable Design

Inner Conductor	Solid plain copper wire	Ø 0,94 mm
Dielectric	Foam Polyethylene (PE)	Ø 2,79 mm
Shield	Aluminium tape	Ø 2,95 mm
Braid	Tinned copper wire braid	Ø 3,53 mm
Outer Jacket	Polyethylene (PE) or LSZH FireFighter®	Ø 4,95 mm

## Specification

Part Number	Type
195502	Polyethylene (PE)
195504	LSZH FireFighter® IEC 60332-1

## Mechanical and Thermal Characteristics

Bending radius	10	x Ø
Bending moment	0,27	N/m
Weight	30	kg/km
Tensile strength	18,2	kg
Flat plate crush	0,27	kg/mm
Temperature Range	Installation	-40 to +85 °C
	Storage	-70 to +85 °C
	Operating	-40 to +85 °C



# Signum<sup>®</sup> 195

Low Loss Flexible Communication Coax 50 Ohm

## Electrical Data

Velocity of propagation		76	%
Dielectric constant		1,56	
Time delay		4,17	ns/m
Impedance		50	Ohm
Capacitance		83,3	pF/m
Inductance		0,21	μH/m
Shielding effectiveness		> 90	dB
DC Resistance	Inner Conductor	24,9	Ohm/km
	Outer Conductor	16,1	Ohm/km
Voltage withstand		1000	V
Jacket spark		3000	V rms
Peak power		2,5	kW

## Attenuation & Average Power

Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kW)
30	6.5	0.89
50	8.4	0.68
150	14.6	0.39
220	17.7	0.32
450	25.5	0.22
900	36.5	0.16
1500	47.7	0.12
1800	52.5	0.11
2000	55.4	0.10
2500	62.4	0.09
5800	98.1	0.06

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.